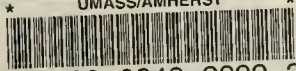
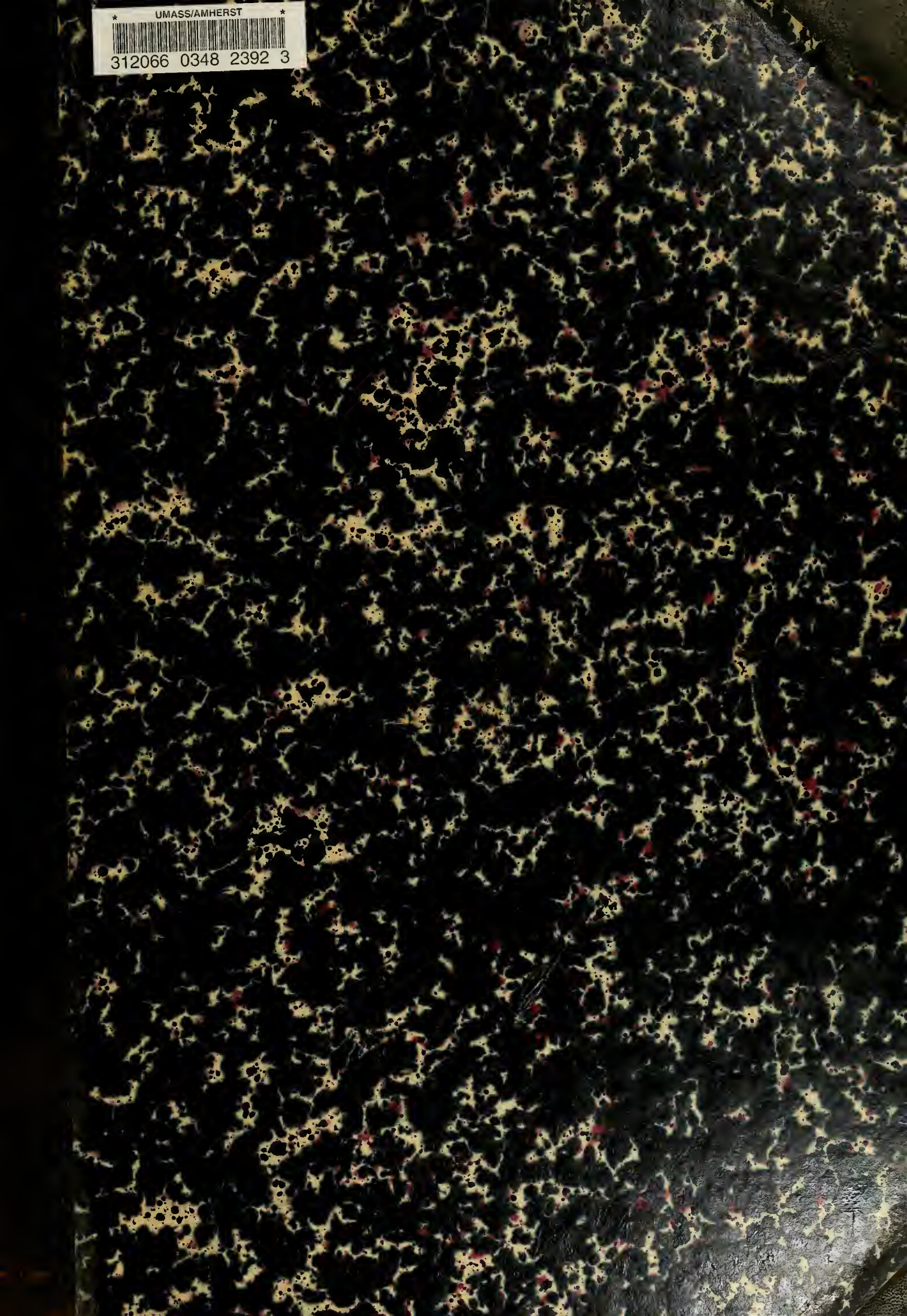


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Index to The Florists' Exchange, Vol. XIX, 1905

ILLUSTRATED ARTICLES MARKED WITH AN (*) ASTERISK

Table with multiple columns listing articles, authors, and page numbers. Includes sections for 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I' and various horticultural topics like 'Carnations', 'Fertilizers', 'Flowers', etc.

BEAR IN MIND

A FEW ITEMS WHICH ARE SEASONABLE NOW

- Sphagnum Moss bale, 85 lbs., \$2.00. Spiraea Compacta Multiflora 150 in case. \$6.00. Lily of the Valley Hamburg Pips, case 2,500, \$24.00. extra size, 100, \$20.00. Lily of the Valley Clumps (Dutch). 100, \$8 00. Bleeding Hearts for forcing, 100, \$5.00.



FRESH SEED

- Smilax 35c. per oz.; \$3.50 per lb. Asparagus Plumosus Nanus 100 seeds, 75c.; 1000 seeds, \$6.50. Verbena Mammoth, separate colors, or mixture, oz., \$1.00. Stocks Cut-and-Come-Again, pure white, trade pkt., 25c.

WM. ELLIOTT & SONS, NEW YORK

Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

- Asparagus Plumosus Nanus, 100 seeds, 60 cts.; 1000 seeds, \$5.00. Begonia, Vulcan and Bonfire, trade pkt., 25 cts. Cyclamen Oiganteum, 100 seeds, 60 cts.; 1000 seeds, \$5.00. Petunia Fimbriata Grandiflora, trade pkt., 50 cts. "double" \$1.00. Salvia, Bonfire, trade pkt., 25 cts.; oz., \$2.25. Splendens, trade pkt., 20 cts.; oz., 90 cts. Stocks, Dwarf Ten Weeks, trade pkt., 25 cts.; oz., \$2.75. Verbena, Mammoth, trade pkt., 20 cts.; oz., \$1.00. FRESH TOBACCO STEMS, bale of 300 lbs., \$1.50.

W. G. BECKERT, Allegheny, Pa. Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS



ASPARAGUS PLUMOSUS NANUS

ASPARAGUS PLUMOSUS NANUS.

New Crop, Greenhouse Grown Seed, per 100 seeds, 75c.; 250 seeds, \$1.50; 1000 seeds, \$5.00. Plumosus Robustus, new, per 100 seeds, \$1.00; 1000 seeds, \$10.00. Sprenger, 100 seeds, 15c.; 1000 seeds, 75c.; 5,000 seeds, \$3.25. Write for prices on larger lots on above three. Decembreur, 100 seeds, 50c.; 1,000 seeds, \$1.00. Scandens Reflexus, suitable for hanging baskets and to cut, 100 seeds, \$1.25. Comprensive, per 100 seeds, \$1.25; 1,000 seeds, \$10.00

ASTERS.

Table listing various Aster varieties and their prices, including Rose pink, Lavender, Red, Purple, Light blue, Daybreak pink, Mixed, and others.

BULBS

- Lilium Canadense \$4.00 per 100. " Superbum 4.00. " Umbellatum 5.00. " Rubrum 5.00. Iamene Grandiflora 6.00.

FOR FORCING

"EASTER" GLADIOLI, \$20.00 per 1000. TRADE LIST FREE.

JOHN LEWIS CHILDS, Floral Park, L.I. Mention the Florists' Exchange when writing.

FRESH CROP

- Cocos Weddeliana Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000. Asparagus Plumosus Nanus Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000.

New Crop Just Received.

STUMPP & WALTER CO., 50 Barclay St., New York

Branch Store 404 East 34th St., N. Y.



INTEREST

Look up our advertisement in issue of December 31. It will pay you.

H. H. BERGER & CO., 47 Barclay Street, New York

Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANTS

SEND FOR CATALOGUE.

ARTHUR T. BODDINGTON

342 West 14th St., New York,

Mention the Florists' Exchange when writing.

Advertisement for Gregory's Seeds, featuring a seed catalog for 1905 and listing various seed varieties.

Mention the Florists' Exchange when writing.

Advertisement for Thorburn's Seeds, featuring a large stylized logo and listing various seed varieties.

Mention the Florists' Exchange when writing.

Advertisement for J. M. Thorburn & Co., listing various Asparagus and Lily of the Valley seed varieties.

Mention the Florists' Exchange when writing.

NEW CROP SEEDS For present sowing. Cryptomeria Japonica, Eucalyptus globulus resinifera, Copresus Lawsoniana, Phlox Drummondii nana compacta, Petunia gigantea, Verbena mammoth, Stocks, dwarf Ten Weeks, trade pkt. 25c.; trade list free. Shellroad Greenhouses, Grange P. O., Balto., Md. Mention the Florists' Exchange when writing.

F. W. O. SCHMITZ

PRINCE BAY, N. Y.

Wholesale Importer and Exporter of

Bulbs, Plants, Roots, Etc.

All Inquiries Cheerfully Answered

Mention the Florists' Exchange when writing.



THE SEEDS

We offer have been grown and collected with a special view to giving satisfaction for Florists' use. Our Specialty—

- Best Modern Single Dahlias Choice Single Petunias True Early Cosmos

Trade Pkts. 25c. each; 5 for \$1.00

BENJ. SILL & SONS

116 Main St., Long Island City, N. Y.

FARM, QUEENS, L. I.

Mention the Florists' Exchange when writing.

It takes \$20,000 worth of postage stamps to mail

the Maule SEED

catalogue for 1905. It contains 152 large pages, full of illustrations and descriptions of the best and newest things known in horticulture. No gardener can afford to be without this book, which will be sent free to all sending me their address on a postal card.

Wm. Henry Maule, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

LANDRETHS' SEEDS

Before placing Your Order elsewhere ask us our prices for choice Seeds

Bloomsdale, Bristol, Penna.

Mention the Florists' Exchange when writing.

WRITE FOR COMPLETE LIST VAUGHAN'S SEED STORE

NEW YORK, 14 Barclay St. 84-86 Randolph St., CHICAGO Greenhouses, Nursery and Trial Grounds, WESTERN SPRINGS, ILL.

JOHNSON & STOKES'

TESTED FLOWER SEEDS FOR EARLY SOWING

Strictly NEW CROP SEED from the Most Reliable Sources

- Asparagus Plumosus Nanus (Greenhouse grown), per 100 seeds, 75c.; per 1000 seeds, \$8.00; 5000 seeds, \$25.00.
- Mammoth Verbena Seed, Mixed. The most brilliant colors and distinct markings found in any mixture extant. Per 1000 seeds, 20c.; oz., \$1.10.
- Mammoth Verbena Seed, white, blue, purple, scarlet and pink; each per 1000 seeds, 25c.; oz., \$1.25.
- Petunia, New Star, remarkable bloomers..... \$0.25
- " Dwarf, inimitable (Nana Compacta) fine for pots,..... .25 \$1.25
- " Giants of California, mixed..... .50
- " J. & S. Giant Single Fringed..... .50
- " J. & S. Giant Double Fringed..... 500 seeds, 75c. .20
- Smilax, new crop..... Per lb. 80c. Per lb. \$2.00
- Salvia Splendens, Clara Bodmer or Bonfire..... .30 2.00
- Stocks, Princess Alice, (Cut-and-Come-Again)..... .30 2.50
- Pansy, Johnson & Stokes' Kingley Collection, the finest strain obtainable..... .30 5.00

Write for our new Florists' List—Just issued.

JOHNSON & STOKES, 217 & 219 MARKET ST. Phila., Pa.

Mention the Florists' Exchange when writing.

FOR FORCING

Lily of the Valley, Spraea, Astilboides Floribunda, Stirling Castle Tomato, First and Best Camellifer.

NEW CROP MUSHROOM SPAWN. **WEBER & DON** 114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

HELLER'S MICE PROOF SEED CASES.

Send for Circulars

HELLER & CO.
Montclair, N. J.

Mention the Florists' Exchange when writing.

NOW is the time to plant TUBEROUS BECONIAS for EASTER BLOOMING

They make excellent POT PLANTS and will find a ready sale then. See prices in last week's issue, 3d page.

HUBERT & CO., Mt. Vernon, N. Y.
N. LE PAGE, Representative.

Mention the Florists' Exchange when writing.

Perennials

Many acres, including all the best commercial and florists' varieties. Send for list with prices.

PALISADES NURSERIES, Sparkill, N. Y.

Mention the Florists' Exchange when writing.

RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.

W. W. RAWSON & CO. Seedsmen, 12 Faneuil Hall Square, BOSTON, MASS.

Mention the Florists' Exchange when writing.

EXTRA CHOICE Flower Seeds

List free on application.

FRED. ROEMER, Seed Grower
QUEDLINBURG, GERMANY.

Mention the Florists' Exchange when writing.

THE HARDY ANNUAL OF THE CENTURY

Nicotiana Sanderæ.

Silver Medal Massachusetts Horticultural Society, 1894.

Gold Medals and First-Class Certificates awarded at principal European exhibitions.

Thousands of glowing carmine blossoms produced on a single bush.

Seeds in original packets from seedsmen throughout the United States.

Full particulars from **SANDER & SONS, St. Albans, England.**

Wholesale Agents for the United States: H. A. DREER, Philadelphia, Pa.;

J. M. THORNBURN & Co., Cortlandt St., New York;

VAUGHAN'S SEED STORE, Chicago and New York.

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

NEW YORK.—Harry A. Bunyard, the veteran traveling salesman, has taken a position with Arthur T. Boddington and will continue to meet his friends on the road.

J. M. Thorburn & Co. have been officially notified that they have been awarded the Grand Prize for the display of vegetables grown from their seeds exhibited at the Louisiana Purchase Exposition; also a Grand Prize for their collection of seeds.

ST. PAUL.—Recent visitors included C. P. Braslan, L. M. Kimberlin, J. B. Agnew and W. H. Grenell.

May & Co. will begin mailing their annual catalogue the coming week.

NEWPORT, R. I.—There has been an unusual good inquiry for lily of the valley pips; some of the seedsmen have been obliged to order several times to supply the demand.

H. L. De Blois, seedsmen, says his Christmas trade in greens was not nearly as good as last year's, one reason being the deep snow, which stopped the usual cemetery orders for wreaths. Since Christmas the seed stores here close the first four nights of the week at 6.30 p. m.; Friday at 9 p. m., and Saturday at 10 p. m.; they all open at 6.30 a. m.

ADULTERATION OF GRASS SEED.—Secretary Wilson has promulgated a circular giving the results of tests made in accordance with an act of the last Congress directing him to obtain in the open market samples of seeds of grass, clover or alfalfa, test the same, and if any such seeds of Canada blue grass are found under any other name than Canada blue grass or "Poa compressa," to publish the results of these tests with the names of the dealers selling the adulterated alfalfa seed. Samples were obtained by department agents from 742 seedsmen throughout the country and out of these there were 23 lots sold by eight seed dealers in all found to be adulterated.

AMERICAN VARIETIES OF LETTUCE.—The Bureau of Plant Industry of the Department of Agriculture, Washington, D. C., has just issued a bulletin (No. 69) of great importance to seedsmen and market gardeners, on the subject of American Varieties of Lettuce prepared for the Department by W. W. Tracy, Jr., Assistant, Variety Trials. In the preface, written by Botanist Frederick V. Coville, it is stated:

Tentative trials were made in the years 1897, 1898 and 1899 and extensive trials were conducted in each of the four years from 1900 to 1903. Altogether 2,934 samples of lettuce seeds were secured, chiefly by purchase from seedsmen, and grown in the trials. These samples represented 441 variety names recognized by American seedsmen. The trials were conducted under Mr. Tracy's direction from 1897 to 1899, at Kensington, Md., and in the succeeding years on the Potomac Flats at Washington. In addition, Mr. Tracy

WARD'S
HIGH GRADE
Bulbs & Plants

RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

Manetti Stocks

For grafting purposes now ready.

Send in your order early.

THE ELIZABETH NURSERY CO.,
Elizabeth, N. J.

Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus Seed

STRICTLY FRESH CROP This season's picking, all greenhouse-grown seed. No last season's left over seed mixed with the stock we offer.
Per 100 seeds, 75c.; \$6.50 per 1000 seeds. Write for special quotations on large quantities.

MICHELL'S CARNATION BANDS

"The Noiseless Band." You cannot do without these bands if you want to save your bursted Carnation blooms. Try them. We sell 10,000 of these bands for \$1.00; 7,000 for 75 cts.; 4,500 for 60 cts.; 2,000 for 25 cts.; 1,000 for 16 cts.

If you have not received our Advance List of Flower Seeds, Bulbs, Supplies, Etc., write us for it.

Seed Growers and Importers,
HENRY F. MICHELL CO., 1018 Market St., Philadelphia, Pa.

HAVING BEEN AWARDED THE **GRAND PRIZE**

For My Exhibition at THE **GLADIOLI** AT THE **WORLD'S FAIR**

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. **Groff's Hybride** and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**

visited the extensive trial grounds maintained by five large seed houses, as well as seven seed farms in California, where lettuce seed is grown. Mr. Tracy concludes that of the 404 varieties named in seedsmen's catalogues 107 represent really distinct varieties, while the others are merely these same varieties under different names.

The bulletin treats on varieties and their description, cultural peculiarities, varieties suited to different conditions and requirements, and gives a classification of varieties, describing those classed as distinct, besides furnishing a catalogue of variety names.

European Notes.

A sharp spell of cold weather has visited us again and filled our minds with thoughts of a good old-fashioned Christmas, but at the moment of writing there are indications that the skates will not be needed, and our hopes of a well-earned recreation are dashed to the bottom of the lake.

In England, and especially in London, the frost has been accompanied with fogs of the worst type. Railway and steamboat traffic has been almost suspended and in all cases seriously delayed, the result being that large quantities of goods intended to be shipped before Christmas have not, up to the present, reached the ship's side, and, as the steamers are despatched from points a long way from the London district, the goods have, in many cases, been left behind. This applies not only to British goods, but also to large consignments from the Continent, which have been sent to London for "combination" purposes. Up to the present the vessels containing them have not yet arrived at their respective wharves, consequently the proposed combine has fallen through. As the extremely low rates quoted by the principal transportation companies are based upon the success of the combine, somebody will have to lose money.

In cleaning up some of our later crops we find that squashes, especially the vegetable marrow type, pumpkins and gourds generally have yielded well, and seed of most varieties will be abundant. On the other hand, the hot-house melons, so highly esteemed in Britain, have produced very little seed, and some varieties are an absolute failure. If we were certain of a recurrence of the hot weather of last Summer in 1905, it might be possible to induce some of our enterprising growers to try the culture of the canteloupe melons so highly esteemed in your country. Up to the present time the specimens that have come under the notice of the writer have possessed the

flavor of a field turnip grown on heavy clay land in a cold, wet season. At the same time it must be admitted that the mammoth peaches which occasionally reach this country from California might be described in the same terms, were it not for the bitter flavor they possess in addition.

The culture of the open-air or ridge cucumber is a dead letter in Britain, mainly owing to the low price at which the frame varieties are grown at the mammoth market nurseries in the vicinity of London.

As the notes will probably appear in the first issue of The Florists' Exchange for the new year, the writer desires once again to wish to all who peruse its pages a pleasant and prosperous New Year.

CATALOGUES RECEIVED

BURPEE'S FARM ANNUAL.—One of the first of the large catalogues to reach our desk this year of 1905 was Burpee's Farm Annual—an ever-welcome visitor, as from its pages we can at all times get a pretty good line on the progress making in the seed and plant industries, the best of the novelties always being offered, together with the tried and true standard varieties. The Annual for 1905 contains some 180 pages; and among many other new things, the public's attention is being especially directed to the following five: Burpee's New Blend of the Best Giant-flowered Fancies; Burpee's Brilliant Blend for 1905 of Superb New Nameless Tom Thumb Nasturtiums; the new "Countess Spencer" strain of superb Ruffled Gigantic Orchid-flowered

SHAMROCK

...IRISH...
Strong and fine plants. Better order early.
\$4.00 per 100; or 60 cts. per doz., by mail.

XXX SEEDS

- Verbena. Improved mammoth, the very finest grown, mixed. 1000 seeds, 25c.
 - Cineraria. Finest large flowering dwarf. 1000 seeds, 50c.
 - Phlox Pumila Compacta. Very dwarf and compact; grand for pots; in finest colors, mixed. Trade pkt. 25c.
 - Alyssum Compactum. The most dwarf and compact variety grown; perfect little balls when grown in pots. Trade pkt. 25c.
 - Chinese Primrose. Finest large-flowering fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 50c.
 - Pansy. Finest Giants. The best large-flowering varieties, critically selected; mixed, 5000 seeds, \$1.00; half pkt. 50c.
 - Petunia. New Star; from the finest marked flowers, extra choice. Trade pkt. 25c.
 - CASH. Extra count of seeds in all packets.
- JOHN F. RUPP, Shiremanstown, Pa.**
The Home of Primroses.
Mention the Florists' Exchange when writing.

The Florists' Exchange

CRIMSON RAMBLER

16950—No. 1, own roots..... \$12.00 per 100
24825—No. 2, " " 8.00 "
Northern-grown, for delivery December 20.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.
Mention the Florists' Exchange when writing.

Sweet Peas; Burpee's White Wax Bush Bean; and new "Howling Mob" Sweet Corn.

Some very interesting views of the great seed emporium in Philadelphia, and of the firm's trial grounds at Fordhook, Pa., add interest to the present year's annual. Then there are also beautiful colored illustrations of Burpee's Trucker's Favorite Tomato, new dwarf Perfection Parsley, thirteen varieties of the finest garden peas; four favorite annuals in celosia, salvia, marigold and verberna, and representations of several novelties in sweet peas.

Burpee & Co. were among the exhibitors at the World's Fair Exposition at St. Louis, and among the honors won by the firm individually they are able to announce the only gold medal on lawn grass, for a growing exhibit, besides other medals. In addition to this, the products of Burpee's seeds had the distinction of securing the only grand prize for vegetables won over all other States, and a gold medal for best display of vegetables raised in New York State, the growers being the Glendale Stock Farm of Glen's Falls, N. Y. This is an excellent record, and Burpee's house will but celebrate its thirtieth anniversary in 1906. Its motto, however, is vitality, purity, selection, novelty, pedigree, quality (the keystone), reliability, originality, liberality, accuracy, and promptness, a combination of qualities that cannot fail to bring success.

EVERYTHING FOR THE GARDEN, 1905.—This attractive and comprehensive catalogue of Peter Henderson & Co., New York, well maintains the high standard

of its predecessors. The numerous presentations require some 200 pages, all of which are profusely illustrated. A most unique cover design is this year presented. The removal of part of the front cover affords a partial view of a beautiful garden and lawn scene on another page (illustrative of what can be obtained from the Henderson lawn grass seed), in which appears a pretty miss holding a tennis racket and ball in her hands, the cover making a charming setting for the picture. Colored plates of the following subjects are also given: New Dwarf Early Pea Melting Marrow; new meaty tomato Tenderloin, improved ever-blooming Hollyhocks; a collection of thirty Giant-flowering Sweet Peas; Irresistible collection of Hardy Everblooming roses, including, among others, General MacArthur, Cardinal, and the dwarf Crimson Rambler; also of Henderson's Artistic Collection of Cactus Dahlias. Large lists of novelties in roses, cannas, dahlias, etc., as well as in vegetables, are enumerated, the whole forming a most interesting and valuable catalogue.

WM. ELLIOTT & SONS, New York.—Catalogue of Vegetable, Farm and Flower Seeds, Plants, Bulbs, Trees, Sundries. The list of novelties, contains among others: Nicotiana Sandera, new miniature asters Walderssee, chrysanthemum Golden Wheel, Princess Alice stock, Princess Maud glloxinia, Benthey's aster, mignonette New York Market, etc. An old mill scene, in apple blossom time, makes an attractive cover illustration. The catalogue is well printed and profusely illustrated.

ASK FOR OUR SPECIAL PRICES ON EARLY SPRING SHIPMENTS OF

THE GENUINE

Picea Pungens Glauca Koster Compacta

The purest, bluest strain, of perfect shape and unsurpassed quality, in large quantities. Plants from one foot to 4½ feet; transplanted stock with good balls and fibrous roots.

Also in quantity, **Hardy Fancy Evergreens**, in the best varieties. Extra large **AZALEA MOLLIS SEEDLINGS** and **AZALEA PONTICA**, named varieties, suitable for lawns, etc.

Catalogues Free on Request.

J. BLAAUW CO., Boskoop, Holland

NURSERYMEN
Mention the Florists' Exchange when writing.

DREER'S OFFER of Seasonable Forcing Plants



AZALEA

Madame Van der Cruysen

To close out quickly we offer a fine lot of this most saleable of all, at import prices. Speak quickly if you want them.

12 to 14 inch crowns, \$6.00 per doz.; \$45.00 per 100
14 to 16 " " 7.50 " 55.00 "
18 to 20 " " 2.00 each; \$11.00 per doz.

AZALEA MOLLIS

An unusually fine lot of well-budded plants 15 to 18 inches high. A plant that is rapidly gaining favor for early and late forcing; it is profitable stock for the retailer to handle, as it can be grown at a minimum cost for heat and labor. \$4.50 per dozen; \$35.00 per 100.

DEUTZIAS, for Forcing

Strong, shapely, two-year-old field-grown plants, suitable for 6 in. pots.

Gracilis Rosea, \$1.00 per doz.; \$8.00 per 100
" Lemoinei, 1.00 " 8.00 "

FORCING LILACS

Charles X and Marie Le Gray

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, \$6.00 per dozen; \$45.00 per 100.

FORCING RHODODENDRONS

For a late Easter will fill a vacancy where Azaleas can not be retarded; they are becoming more popular every season; you will find it profitable to try these. We are carrying an extra large stock of bushy, well-shaped plants, covered with buds, 16 to 18 inches high, \$9.00 per dozen; \$70.00 per 100. 20 to 24 inches high, fine specimens, \$11.00 per dozen; \$93.00 per 100.

THE BABY RAMBLER ROSE

Mme. Norbert Levayasseur

The most valuable bedding rose yet introduced. A plant which will be in strong demand for a long time. We offer good plants suitable to use for stock plants, one-year field-grown, suitable for four-inch pots, \$5.00 per dozen; \$35.00 per 100; \$300.00 per 1000.

HENRY A. DREER, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

W. & T. SMITH COMPANY

Geneva, N. Y.

Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vines
Fruit Trees and Small Fruits.

WHOLESALE PRICE LIST SENT ON REQUEST

Mention the Florists' Exchange when writing.

MARK T. THOMPSON, Rio Vista, Va.—Wholesale Price List of Strawberries, Roses, and Other Plants. Mr. Thompson says: "The best way to know a man is to find out what they say of him at home," and then quotes what is said by local papers of his own products.

CHICAGO CARNATION COMPANY, Joliet, Ill.—Descriptive Illustrated Price List of Carnations, Chrysanthemums and Roses. All the best novelties, along with Fiancee carnation, are included, as well as the cream of the standard sorts.

HOLMES SEED COMPANY, Harrisburg, Pa. Handbook of Seeds for 1905, etc., with an interesting list of novelties. Well illustrated.

D. LANDRETH SEED COMPANY, BRISTOL, PA.—Catalogue of Landreth's Seeds, etc., with a list of novelties and specialties.

THE BEALL IMPROVEMENTS COMPANY, Decatur, Ill. Price List of the Graham Seed Corn Sorter. Illustrated.

HUNTINGDON & PAGE, Indianapolis, Ind.—Illustrated Catalogue of Seeds, Bulbs, Plants, Supplies, etc.

J. M. THORBURN & CO., New York.—Trade Price List of Vegetable and Garden Seeds, Bulbs, etc.

J. F. ROSENFELD, West Point, Neb.—Price List of Peonies, etc.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Mowing, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

PETERSON NURSERY
505 W. Peterson Ave. CHICAGO, ILL.
Mention the Florists' Exchange when writing.

VAN DER WEIJDEN & CO.

THE NURSERIES, BOSKOOP (Holland)

Have a fine lot of high grade Nursery Stock at hand to fill your Spring orders; such as hardy Rhododendron, Boxwood, Blue Spruce, Koeler's 2-6 feet, extra fine, H. P. Standard roses and Hydrangea paniculata grandiflora (Cheap), etc. No agents. Ask for special prices.

For the Trade only.
Mention the Florists' Exchange when writing.

Very Prosperous New Year

to the American Nursery and Florist trade
Van der Weijden & Co., The Nurseries
BOSKOOP—HOLLAND

Mention the Florists' Exchange when writing.

Grafted Roses

We are booking advance orders for BRIDE and BRIDESMAID stock from 2½ inch pots at \$100.00 per 1000.

EDW. J. TAYLOR
Southport, Conn.

Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.
Mention the Florists' Exchange when writing.

Philadelphia Rambler

Don't fail to get some PHILADELPHIA RAMBLERS for forcing. It's the brightest and best.

THE CONARD & JONES CO., West Grove, Pa.
Mention the Florists' Exchange when writing.

RAFFIA FIBER

Rolker's O. K. Quality, for Nurserymen. Always on hand and for sale in 50 lb. and 100 lb. bales, at \$12.00 the 100 lbs. Terms net cash; also in original bale lots of about 225 lbs., at a reduction. Write for prices.

Florist and Nursery Stocks imported to order.
AUGUST RÖLKER & SONS
31 BARCLAY ST. P. O. Box 752
Mention the Florists' Exchange when writing.

DAHLIAS

Over 200 Distinct Varieties

New and up-to-date in all classifications. List and prices on application.

PALISADES NURSERIES, Sparkill, N. Y.
Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES
Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mention the Florists' Exchange when writing.

TREES

Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, etc. etc. etc. The most complete collections in this country.

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ELLWANGER & BARRY

Mt. Hope Nurseries, Rochester, N. Y.
Drawer 1041 E. Established 65 Years.

Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Neponset Pots for Packing.

Florists and nurserymen who have the shipping of plants in pots find the Neponset pots very useful for the purpose. There are lots of plants grown in pots which have to be shipped, and the balls of which it is necessary to preserve. The ordinary pots in which they are grown are not fit for shipping. It takes too much time, care and box space to pack in such a way that both pots and plants are safe. The use of Neponset paper pots obviates all this. The plant is knocked out of the pot in which it has been growing, and is set into a Neponset pot of the same size. To tie this pot may sometimes be necessary, to keep the soil from falling out when the pot is on its side, but often tying will not be required. Packing of pot plants in this way is a great pleasure to those who have had to do with the shipping of them in the old way. The work is much quicker done than before, and the plants arrive in much better condition. This encourages further trade, and sales increase. The cost of the Neponset pots is fully set off in the saving of the old pots, which formerly were shipped away, and in the end, through so many being broken en route, because of no use to any one. The Neponset pot is a good thing for shippers of pot plants to possess.

Early Planting of Japanese Snowball.

One of the mistakes of Spring which nearly all nurserymen are liable to make is to delay planting the Japanese snowball early in the season. It is one of several Japanese shrubs that are impatient to start growth as soon as Winter is over, and, as with the lilac, the buds seem waiting the first warm days of Spring to expand. It is well to keep this in mind, and to so arrange that this snowball be transplanted among the first of shrubs set out. It is such an admirable subject for the lawn, that in nearly all orders for a half dozen or so of shrubs it is one of the number, and as some orders must, necessarily, be filled late in the season, nurserymen usually dig up early in the Spring, as many as they expect to want, and heel them in, so as to retard them. One difficulty with the successful transplanting of this shrub is that after its buds begin to push into full expansion it becomes difficult to succeed with it, even when closely pruned. This is not the case with the majority of shrubs, and it is further reason for the planting of it at an early date. Last season, a florist called on a nurseryman for a large number of this snowball. It was in Spring, and his desire was to have the plants in flower for use for Memorial Day. This, it was explained to him, was impracticable. Though the plants all lived, it was explained that the check from transplanting would cause the flowers to be very small, and so be unfit for cutting for the purpose desired. It is not with the snowball as it is with the deutzia and some other shrubs; the deutzia may be dug up in the Fall and forced for Easter and give fair satisfaction in the way of flowers; not so the snowball. It must have a year to establish itself before it can give the grand flowers it is famed for. To conclude, let me say if you have not a good supply of this shrub, get it; one rarely has too much of it.

A Shrub for Banks.

When something is wanted for the purpose of ornamenting a bank and the binding of it, to prevent washing, a good plant to recommend is the red fruited snowberry, *Symphoricarpos vulgaris*. It grows freely, spreads by underground runners, soon forming a thicket, and at this, the Fall or early Winter season, its slender branches, weighted down with red berries, are a beautiful sight.

Another shrub, valuable in the same way, but hardly as good for rooting underground and forming a dense bush thereby, is the white berried one, *S. racemosus*. The berries of this are large, snow white, and do not come in such thick clusters as those of the red one. This one may be called snowberry, from its snow white berry, but as the red-fruited one, *S. vulgaris*, is often made more beautiful by the snow which covers the ground below its branches of berries, the name snowberry is applicable to either.

When growing in masses, a condition a few shrubs will soon create by spreading, the snowberries are particularly handsome in late Autumn and early Winter; and, as mentioned, for the binding of banks or any ground liable to wash away, they are of great service.

Pruning Flowering Shrubs.

A correspondent in Massachusetts suggests that there are many readers that would be glad of a few hints on the proper pruning of shrubs. Hints on pruning have appeared in these columns several times, but there are additions to the ranks of The Florists' Exchange readers all the time, so that a few more hints on pruning will doubtless interest many. To make plain the business of pruning shrubs, it needs saying that there are two classes of them, in one of which are those that flower before Summer; in the other, those that flower in Summer

and Autumn. Each requires different treatment from the other. Those that flower in Spring are such as lilacs, weigelas, mock orange, golden bell, deutzias, snowball and flowering almonds and peaches. These, and any others that bloom early, must be pruned as soon as their flowers fade, and at no other time, unless it be a little touch with a knife here and there to shape the bushes. The pruning when the flowers fade will be in the Spring, of course, or very early Summer. There should be a pruning away of the older shoots, which will cause strong young ones to take their places, and it is these latter which will give the flowers the season following.

In addition to the cutting-out of old shoots many of the others can be shortened somewhat which will cause young shoots to spring from these shortened ones, and this fresh growth will add to the flower-producing wood.

The second class, that in which are the late bloomers, consists of many varieties. In it are the popular hardy Japanese hydrangea, the althæa, many spiræas, some roses, pepper bush and several others. These flower on wood made the same season, therefore should not be pruned in Spring, but in late Winter, or before growth starts in Spring. It will be seen from these remarks that there need be no misunderstanding in what to prune and what not to prune. Just consider whether the shrub before you is a Spring bloomer or a later one, and at once it will be known what pruning it requires.

There are among spiræas those that flower in Spring, and some that bloom later. *S. Bumalda*, *Anthony Waterer*, *Billardi*, *tomentos*, and some others seem to flower very well under either system of pruning, but *Thunbergia*, *Van Houttel arguta*, *Reevesii*, and like sorts, are distinctly Spring blooming and must be treated accordingly.

Those who desire to increase their shrubs find the shoots obtained from the Winter's pruning of great advantage to them. These are cut into lengths of 7 to 8 inches, kept in moist soil, in a cool cellar until Spring, and then set out, in rows, in the open ground, deep enough that but 2 to 3 inches only are above ground. Should it be that the late blooming ones are desired to be increased, also, the shoots must be cut in the Winter in the same way, but never forget that what you take from these is so much taken from the flowering wood of the season to come. Nurserymen do not care for flowers so much as they do the having of a large stock, and so cut these for cuttings as they do the others.

There are many shrubs, such as *Cornus florida*, *Cornus Mas*, magnolias and others that proclaim that they must be pruned at no other time than after flowering, for their flower buds are formed and are prominent in Autumn, and must be respected or no flowers will result. JOSEPH MEEHAN.

Perennials for Low Ground.

Editor Florists' Exchange:

On page 782 of your issue of December 24, 1904, A. E. Wohler advocates the planting of *Iris germanica* on low ground, that is liable to be under water for a time in the Spring. While this iris will grow almost anywhere, and adapt itself to almost any condition, such a position as the one referred to is about the most unsuitable that could be selected for it. My experience has been that all the broad-leaved irises, such as *germanica* and its varieties *palida*, *Dalmatica*, *tectorum*, *florentina*, *pumila*, etc., should be planted where the ground is well drained. They all like abundance of water while making their growth and during their flowering season, but when in a dormant condition the thick, fleshy rhizomes are liable to decay when there is too much moisture.

The narrow-leaved irises are far more suitable for swampy ground, and can safely be recommended for planting in wet places. Among these may be mentioned as being especially suitable: *Iris Kämpferi*, *pseudo-acorus*, *sibirica*, *spectabilis* and *virginica*.

Mr. Wohler also mentions the sunflowers as being suitable for the location in question. While some of the strong growing kinds may be suited in such a position, they naturally prefer a rather dry, sandy, well-drained place. The choice ones, such as *Helianthus multiflorus* and varieties *mollis* and *doronocoides*, would almost be sure to be winter-killed.

In addition to *Rudbeckia Golden Glow* and the *eulalias* may be mentioned *Eupatorium purpureum*, *Hibiscus moscheutos*, *Lobelia cardinalis*, *Lysimachia vulgaris*, *Monarda didyma*, *Rudbeckia maxima*, *Spiræa aruncus*, *S. kantschatica*, *S. palmata*, *S. ulmaria* and *Aster tataricus*. These are all more or less rather coarse-growing kinds, and the advice given on page 746, to properly drain the ground, should be followed, if a choice assortment is desired. ERNEST HEMMING.

ORIGINATOR OF PEONY FESTIVA MAXIMA.—In a most interesting and exhaustive article on John Richardson, His House and Garden, appearing in the Transactions of the Massachusetts Horticultural Society (Part I) 1904, Robert Tracy Jackson, of Cambridge, Mass., in a footnote, remarks as follows regarding this peony: "Members of the American Peony Society, who have looked into the matter, say that *Festiva maxima* originated with Mieliez. Authorities differ, however, as George Paul says: 'In Belgium an amateur, M. Buyck, about 1835, produced, amongst others, *Festiva maxima*.'" The year of introduction is generally given as 1851.

Liquidambar Styraciflua.

Editor Florists' Exchange:

In reference to the articles on this native tree, in your issues of December 24 and 31, a few remarks from this section and the writer's experience may be of interest to your readers. I have for a long time considered this one of the least used, and yet one of the most useful trees in existence for ornamental purposes. It is seldom, if ever, troubled with any insect pests, has a beautiful color of foliage from the earliest opening of its leaves until the Autumn when it turns to one of the most handsome shades of bronze-black coloring. It is a handsome and interesting tree in Winter, as mentioned in the excellent description by Mr. Meehan. It seems to be perfectly hardy in this locality, although very little of it is to be seen. A fine young specimen or two may be noticed in the Arnold Arboretum, and I have occasionally come across a nice specimen or two on some private estate, but I have not seen any larger than a height of twenty feet or so, proving that the trees were planted only a few years ago. Some five or six years ago quite a few trees were planted in Franklin Park, and while a few of them failed to survive more than a couple of years, the majority of them are in a fair way to the making of nice specimens. The cause of death among these I speak of was more from the trees coming originally from a much further south location than this. I have found the same trouble with many of our native trees, and I would always impress upon nurserymen the necessity of their securing tree seeds from as northerly a latitude as possible.

I am at present experimenting with the hardness of this tree, having had a lot of young plants collected in Western Connecticut last Spring, and these at present have every indication of proving perfectly hardy. Western Connecticut is as far north as the writer has ever found this tree in its native state, but there it may be found in large flourishing groves and makes one of the largest-growing native trees. It is known in that section of the country as *Bilstead*. It is a tree which, like several other native trees, is rather hard to transplant, and planting may most successfully be done in Spring. It makes a splendidly shaped subject, and I have often come across a tree growing in its native state, making a perfect specimen comparing favorably with the excellent specimen shown in your recent issue. JOHN W. DUNCAN.

Boston, Mass.

The Peony.

(Read by H. A. Terry, Crescent, Ia., before the Iowa State Horticultural Society.)

The peony is really the queen of flowers. There are about one thousand varieties in cultivation, but one may buy, say fifty varieties of a judicious selection and get the cream of the whole lot. Of this thousand varieties no two are just alike, though there are a good many that are so similar that it is not necessary to buy the whole lot to get a good collection.

The writer of this paper has had a good deal of experience in growing peonies, having bought his first lot over forty years ago, and has been adding foreign varieties to his collection from that day to this. In addition to this he has been growing seedlings from these foreign varieties, and has grown and tested tens of thousands of these seedlings, of which, perhaps, not more than one or two out of a hundred were worthy of cultivation. This would seem to be very poor encouragement; still the excitement and anxiety in watching a lot of these seedlings just coming into bloom pays the lovers of flowers very well.

As to color in the peony family, it ranges from the darkest crimson to the purest white, and every shade betwixt these two that one can imagine; and many varieties have several of these shades in the same flower. One of the finest, and one that is most called for, is a pure white, with a dark crimson blotch in the center, as large as a half dollar, while some of the flowers will have two or three smaller blotches. This is a foreign variety called *Festiva Maxima*.

Another very popular variety is named *Grover Cleveland*; the flowers are very large, of a dark crimson color, very double and solid, center beautifully fringed, and keeps fresh a long time after being cut from the plant. These two varieties are often called for to be planted together.

The cultivation of the peony is very simple. It should have mellow, rich ground to grow in, and not allowed to be overrun with weeds. The plants, after growing five or six years, should be taken up and divided. When left too long in one place too many stalks will be produced, and the flowers will be smaller than when the roots are divided. If not taken up and divided the plants will still continue to bloom, the writer having a plant that has stood in one place twenty-two years without moving and the last year this plant produced one hundred and fifty flowers.

The hardness of the peony is immense. They grow and bloom beautifully in Manitoba, and in an experience of nearly fifty years, I have never known one to be winter-killed.

Autumn is the proper time to divide and plant the peony, and if done early in October, good strong plants will bloom the next season. The older roots may be divided into about as many plants as there are eyes on the plant, but it is better not to divide so close, as they will bloom sooner and stronger if the roots are left larger. The plants should be so set as to have about five inches of soil over them after the ground is leveled off.

The Future of Peonies.

Editor Florists' Exchange:

It is thought by some that the present interest in this flower is only a fad that will soon pass away. It will pass when the love of flowers shall be entirely destroyed, when cannas, dahlias, roses and carnations shall lose their grip and the whole procession of beauty shall pass from the earth. The modern peony need not hide its head for any flower that blooms. In England and France there is a great revival of interest; new and beautiful kinds are being developed there all the time.

Again, interest in the peony is moving westward. Two-thirds of all raised in Iowa and Nebraska go East, but the interest awakened in the West and Northwest is simply without precedent. A number of leading farm papers having large circulations have, at the suggestion of the writer, published special peony issues with fine illustrations, calling the people's attention to the fragrance, beauty, hardness and adaptability of this plant.

The Peony Manual, published by the writer, is having a fine run. In a few months 700 out of 2,000 have been sold.

To meet the growing demand there have been importations from Europe such as were not known before, and the writer, having faith in the opening of the great Northwest, which will require millions, has this Fall planted 35 pounds of the choicest seeds that could be gathered, in the hope that among them all some of superior merit will be found.

Already some of the choicest kinds are soaring; some of superior merit will soon be out of reach. Ten dollars a root has been refused for genuine Lady Alexander Duff. The true Baroness Schroder have gone to \$5 a root and are hard to get at that; people will have them; and in 1,000 from one in ten years you lose sight of the original cost.

Peonies are at best increased by slow processes as compared with shrubs and fruit trees. You can soon get a million from one choice apple tree. A new syringa comes out and every good cutting becomes a healthy bush. We increase peonies from seed and it takes six or eight years to know what we are doing. Dividing the roots every two years checks the growth and they require the best of care; even grafting superfluous buds into the roots of other peonies does not give rapid returns. So the price of the best will be high, and new candidates for public favor will be high also.

We can look forward to lively times with this flower. The newer sorts are simply superb, and with their beauty and fragrance they will win their way.

York, Neb. C. S. HARRISON.



PACKING SHED, BUILT OF ADOBE, OF CHASE ROSE COMPANY, RIVERSIDE, CAL.

A Unique Nursery Packing Shed

In our issue of December 17, 1904, we referred to the new rose cellar and packing shed, built of adobe, of the Chase Rose Company, at Riverside, Cal. Through the courtesy of the concern named we now present our readers with an illustration of this unique structure. The Chase Company says:

"Adobe brick are generally made from material at hand, clay and sand, and dried by an arid sun. They are probably one of the oldest forms of construction material used. From the days of Nineveh their use has been constant, but we presume they have never before been employed in the construction of a nurseryman's packing house. The buildings are not practical where rainfall is large, but being cool they are desirable in dry climate, and with the aid of this one we wish to demonstrate to you that Arid-Climate rose bushes have come to stay, 'allice samee adobes.'"

Nursery Salesman Found Dead.

ROME, N. Y.—Harry Richardson, a salesman of nursery stock for N. B. Chase, of Newark, N. Y., was found dead in the City Hotel on December 26. He was 23 years of age. As he was subject to epileptic fits, the theory is that he died while suffering from one.

MT. HOLLY, N. J.—Samuel E. Rogers, who recently retired after conducting a nursery business here for many years, is seriously ill from a stroke of paralysis.

Root Pruning Large Trees.

Nurserymen find their customers constantly calling for large trees; "no matter how large, provided they will grow," is what they say. All who are at all familiar with trees know that a good, thrifty young tree will overtake a larger one, both planted at the same time; that is, when the larger one has lost many of its roots in transplanting. Even the purchaser knows this; but the large tree is not thought of in such a connection. It is wanted large for its present appearance, probably. There is a position it will fill, to make a picture of a place, perhaps, and where a small tree would not answer at all. Time and again customers are importunate to get such trees, and with an assurance from the nurseryman that the chances are in favor of growing, almost any reasonable price can be obtained. Consider the demand all the time for good-sized oaks, beech, tulip trees and other deciduous trees and for evergreens! The proper way is to root and branch prune these trees two years in advance of digging them up. What a sale there would be for large scarlet oak, say, of three inches diameter of stem, if known they had been root-pruned two years ahead and, therefore, were pretty sure to transplant well! Such specimen trees should be looked up now. If free be, the tops could be pruned during the Winter, the roots, as soon as Spring opened, or before, if the nature of the ground permitted.

An oak, or similar tree, with trunk, say, of three inches caliber at near the ground, would require to be dug around in a circle of seven feet diameter, severing all roots met with. The tree should also be dug under, to cut off what roots have pushed perpendicularly. Make a clean cut of roots, not a ragged or torn one. Fill up the trench afterwards, and if the soil thrown out is not over good, add a little manure, to entice a nice growth of roots. The branches of such trees should be headed back one half at the same time, looking out for the shapening of the tree while doing this. In two years' time such a tree would be fairly sure to live; at any rate, it could be sold, and at a good figure and with a clear conscience.

Evergreens could be treated in the same way, and then the difficulty of getting some pines of large size to live would not be such a frequent one as it is now. More judgment would need be exercised, in the pruning of the branches of evergreens. They will not break freely when cut below the green foliage, and it is better, therefore, to let the pruning be done by one of good judgment. Evergreens should not be top-pruned until Winter is over.

Twiggy Growth of English Linden.

In some cases our native linden, *Tilia americana*, is thought to be too tall a grower for a position under consideration, and when this is the case the merits of the European one, *T. platyphylla*, should be remembered. There is a deal of beauty in this linden. Compared with the native one spoken of its leaves are small, and they are of a darker green color. They are retained on the tree later in the season; the tree

is not so tall in growth and it makes a twiggy, compact growth. For street planting I would much prefer it to the native tree, because of the points mentioned, which make it more desirable. It is in use in many cases already as a sidewalk tree, and its appearance is favorably commented on.

Many years ago it was said that borers troubled this linden, but while this may be true to-day, of which I have no knowledge, it cannot be serious, as no appearance or complaint of injuries from this cause comes to notice. The well-known partiality of bees for the flowers of the linden would be thought an additional inducement to plant it by many.

The Groundsel Shrub.

Baccharis halimifolia, one of our seaside shrubs, has been well named groundsel shrub, its snow-white papus reminding one very much of the common groundsel, *Senecio vulgaris*. So few shrubs thrive in the barren, waste places where this one will, that this alone calls for its planting, but, in addition to this, there are the feathery heads it displays. In late Summer, and along until Winter comes, it keeps up its display.

This is one of a few other shrubs which often partly die back in Winter, even though natives. It does not hurt them to do this; in fact, it suggests the cutting down of the bushes every Spring, injured or not, as being the best way to treat it.

Common Names of Plants.

Showing the confusion the common names of plants causes at times, a nurseryman related to me his experience with the "Wahoo." The only "Wahoo" he knew of was the *Ulmus alata*, and on having a lot of it offered him—"Wahoo"—he engaged a quantity of it. On its arrival he was surprised and disappointed to find he had a lot of *Euonymus atropurpureus*, for which he had no use at all. Going to his library, he found no fewer than three "Wahoos," the *Ulmus alata*, *Euonymus atropurpureus* and *Tilia alba*. These names were found in two botanical works; dear knows how many more "Wahoos" other works may give.

Nurserymen endeavor to use botanical names as far as they can; and the instance related, as well as others known of, shows how mistakes are apt to occur when common names are substituted for them.

JOSEPH MEEHAN.

The Amateur Farmer's Success.

"There goes a 'book farmer' that refutes the stock joke about what failures they are."

"How is that?"

"His favorite textbook is 'Success with Small Fruits,' and he has succeeded in growing the smallest fruit I ever saw."—From Brooklyn Life.

ERIE, PA.—L. A. Spoden has removed his stock to the new greenhouse built at 23d and Parade streets.



H. A. TERRY'S NEW PEONIES

IVIES

Strong field-grown English plants, with many runners, 3 to 4 ft. 75c. doz.; \$6.00 per 100; \$60.00 per 1000.

PALISADES NURSERIES, Sparkill, N. Y. Mention the Florists' Exchange when writing.

CINERARIAS

4000, 3 in. pots, very strong, medium large flowering, \$3.50 per 100.

Asparagus Plumosus, 3 in., \$5.00 per 100.

CHRYSANTHEMUMS

Stock Plant.
Polly Rose, Willowbrook, Montmort, Pacific, Morel, Appleton, Mand Dean, Ivory, white and yellow, Bonnafton, Golden Wedding, Jerome Jones, \$5.00 per 100.

J. D. BRENNEMAN, Box 24, HARRISBURG, PA.

TO CLEAN BENCHES Chrysanthemum Stock Plants FOR EXHIBITION BLOOMS

Wm. Duckham, Dr. Enguehard, John Burton, \$1.50 per doz.; \$10.00 per 100. Bonnafton, white and yellow, Mrs. Jones, Yanoma, Gloriosa, Loveliness, 60 cts. per doz.; \$5.00 per 100.

HENRY EICHHOLZ, Waynesboro, Pa. Mention the Florists' Exchange when writing.

KENTIA BELMOREANA

Fine clean stock, in 4 in. pots, large enough for 5 in., 25c. each; 2 1/2 in., nice for center of fern dishes, etc., 10c. each, \$9.00 per 100. Latania Burbankia, 4 in., 15c. each. Asparagus Plumosus, 2 1/2 in., \$2.00 per 100. Geraniums, Mrs. Sallerol, silver leaf, 2 1/2 in., \$2.00 per 100.

H. WESTON, Hempstead, N. Y. Mention the Florists' Exchange when writing.

ASPARAGUS

SPRENGERI extra strong, field-grown
2 1/2 in. \$3.00 per 100 3 in. \$5.00 per 100

TENUISSIMUS
2 1/2 in. \$3.00 per 100 3 in. \$5.00 per 100

NATHAN SMITH & SON, ARIAN MICH. Mention the Florists' Exchange when writing.

PALMS AND FERNS

Pieris and Boston Ferns, strong runners from bench, fit for 2-1 1/2 in. and 3 in. pots, \$20.00 per 1000; 5 in., \$25.00; 6 in., \$40.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upwards. Ferns in variety, from 2-1 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Latania Burbankia, 3 in. pots, \$5.00; 4 in. \$15.00; 5 in., \$25.00; 6 in., \$35.00 per 100; 7 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Belmoreana and Belmoreana, from 2-1 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00. 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Areca Lutescens, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants from \$1.50 up. Aracaria Excelsa, 4 in., 45c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Aracaria Compacta, from \$1.00 to \$5.00 each. Pandanus Utilis, 8 in. pots, 50c. Dracaena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Reclinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$9.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Azaleas, 10 in.-12 in., \$35.00 per 100. Larger sizes at lowest rates. Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City Pa. Mention the Florists' Exchange when writing.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI
The Most Magnificent Tree Fern in Cultivation.
Extra Large Specimens.
12 in. pots \$15.00 each; \$25.00 per pair
10 in. pots 5.00 each; 9.50 per pair
8 in. pots 2.75 each; 22.00 per doz.
7 in. pots 1.75 each; 20.00 per doz.
Adiantum Cuneatum, 4 in., \$15.00 per 100
Adiantum Rhodophyllum, 4 in., 20.00 per 100
Adiantum Rhodophyllum, 3 in., 12.00 per 100

ANDERSON & CHRISTENSEN, Telephone Call 14 F., Short Hills, N. J. Mention the Florists' Exchange when writing.

Club and Society Doings.

KANSAS STATE HORTICULTURAL SOCIETY.—This society, at its recent meeting, elected the following officers: President, Major F. Holsinger, Rosedale; W. F. Schell, Wichita, vice-president; Walter Wellham, Topeka, treasurer; and Wm. J. Barnes, secretary—for his sixth term of two years.

NEWPORT (R. I.) HORTICULTURAL SOCIETY.—This society held last Wednesday evening its final meeting for 1904, Vice-President Alexander McLellan in the chair. James Bloomfield was elected an active member. Only a few members being present, much important business was left for the next meeting. The committee in charge of the annual ball reported all bills paid and a surplus of over \$50. F. W.

KENTUCKY SOCIETY OF FLORISTS held its monthly meeting on January 3 at the store of Mrs. C. B. Thompson, Louisville, Ky. As it was a very cold night, and many of our members do their own firing, the attendance was light. A preliminary premium list for a chrysanthemum show, to be held in November, was accepted and ordered printed and distributed. Any florist desiring a copy, can obtain the same by addressing our secretary, F. L. Schulz, 1325 Cherokee road. The installation of the newly elected officers then took place. Owing to illness our treasurer, C. H. Kunzman, and financial secretary, Joseph Coenen, were absent. A. R. B.

DOBBS FERRY HORTICULTURAL ASSOCIATION.—The regular meeting of this association was held in Odd Fellows Hall on Saturday evening, December 31, 1904, President Dunbar in the chair. The business of the evening was the election of officers. Joseph Dunbar was elected to fill the chair for another year; Henry Kastberg was elected secretary; Claud Wilson, treasurer; Joseph Bradley, press secretary. It was proposed to have a vice-president, and Thomas A. Lee was elected. Everyone present was highly pleased with the result of the voting. The treasurer read the report for 1904 and after all bills are (Continued on page 9)

Cyrtomium Falcatum

The Holly Fern. Fine, bushy plants in 2 1/2 inch pots, 3 1/2 cts.
Boston Ferns, Strong 5 inch plants, 20 and 25c.
Nephrolepis Fosteriana. Large plants 4 inch, 12 cts.
Primula Obconica, gr. 4 in., in full bloom, 10 cts. Cash please.
R. G. HANFORD, Norwalk, Conn.

GERANIUMS

Well rooted cuttings ready for shipment. S. A. Nutt, Grant, Bruanti, Buchner, Favorite, Montmort, Perkins, \$10.00 per 1,000. Viand, Soleil, Gervais, \$12.00 per 1,000.
Cash with Order.

PETER BROWN, Lancaster, Pa

500,000 VERBENAS

60 Finest Named Varieties
Perfectly Healthy Free From Rust
Rooted cuttings, 60c. per 100; \$5.00 per 1000.
Plants, \$2.50 per 100; \$20.00 per 1000.
Our list is the choice for millions of seedlings. Send for circulars.

J. L. DILLON, Bloomsburg, Pa. Mention the Florists' Exchange when writing.

The Only GRAND PRIZE For Vegetables AT THE GREAT 1904 ST. LOUIS EXPOSITION WAS WON BY THE PRODUCTS OF BURPEE'S SEEDS

C. W. HOLLEY, Glendale Stock Farm, Glens Falls, N. Y., Dec. 14, 1904, writes:—Now our winnings for 1904 are as follows: Washington County Fair, \$110.50; Albany County, \$89.75; Cambridge Fair, \$101.25; Saratoga County, \$45.00; Clinton County, \$35.00; Warren County, \$75.00; NEW YORK STATE FAIR, \$287.50; and WEST CHESTER COUNTY, \$325.50—making a total of \$1,069.50 each.

hibit, which was awarded a GOLD MEDAL, and also the GRAND PRIZE, all the vegetables were grown from BURPEE'S SEEDS; also the Sweet Corn, Pop Corn and Potatoes, all grown from BURPEE'S SEEDS!

The Results at the State Fairs of Iowa, Wisconsin and Kansas are announced on page 174, and of Indiana on page 19 of BURPEE'S FARM ANNUAL. Other States did equally as well, and we shall publish several more photographs of STATE FAIR EXHIBITS in our New Prize Supplement for 1905. We are justly proud of all the prizes won by our customers, as also of the Two Gold Medals and Two Silver Medals (including the only GOLD MEDAL on Lawn Grass) awarded directly to us for our own Growing Exhibits at the St. Louis Exposition. Although not yet "thirty years old," no other seeds have ever had such universal endorsement at State and County Fairs!

If you are interested to know more about the Unequaled Record made throughout America—at State and County Fairs—by the popular prize-winning products of BURPEE'S SEEDS, you have only to ask, with your order, for a copy of our PRIZE SUPPLEMENT for 1905, but first write a POSTAL CARD for

Burpee's New Farm Annual For 1905

Our complete Retail Catalogue of 178 pages, with beautiful colored plates, hundreds of illustrations and accurate descriptions. It offers some GRAND NOVELTIES, of unusual value, which cannot be had elsewhere.

Florists and Market Gardeners should ask also for

Burpee's Blue List

This is mailed only to those who "plant for profit," and is the most complete of Wholesale Catalogues. Elegantly printed with photographic illustrations, it is a BOOK OF 104 PAGES and gives practical information about all the BEST SEEDS THAT GROW! Unlike most "seedsmen," we are actual GROWERS of Seeds, having our own farms in



FRONT COVER OF BURPEE'S FARM ANNUAL

We also got the GOLD MEDAL at St. Louis World's Fair on best display of vegetables raised in New York State. Also we got the GRAND PRIZE on vegetables over all the other States and THE ONLY GRAND PRIZE won by any one on vegetables. Some other seedsmen got "a Gold Medal," but no other State or person got a GRAND PRIZE but the old and tried Glendale Stock Farm of Glens Falls, N. Y., with the reliable seeds to back them, with their fine show, of which they always win with BURPEE'S SEEDS. I think in the last five years that no other seed firm can show the winnings at any fairs like BURPEE & Co., and now the biggest honor has fallen again on Burpee & Co by having their seeds take the GOLD MEDAL and THE GRAND PRIZE of the United States.

We took the most attractive display to the World's Fair. The jury on vegetables told me that they never saw such a show anywhere as we had there. I sent you a letter describing our show there. Now I consider that we have won for you the one of the greatest honors for your seed that can be won by any one—the GRAND PRIZE and GOLD MEDAL. Of course, there were other Gold Medals won on vegetables, but no other "GRAND PRIZE" but ours! It cost us enough. To you the honor—but we knew we had the vegetables and were going to try for the big prize!

The winnings (as stated above) entitled THE GLENDALE STOCK FARM to BURPEE PREMIUMS as follows: Seven County Fairs at \$5.00 each; one State Fair, with photograph, \$21.00; and the National Extra Prize of \$100.00. In addition we sent our check also for an "honorarium" of \$100.00 in appreciation of the magnificent results that Mr. Holley, at his own expense, attained at St. Louis. Thus GLENDALE won, the past fall, a total of thirteen hundred and twenty-five dollars and fifty cents in cash prizes for the products of BURPEE'S Best "Seeds that Grow."

In Iowa, as usual, the first prize at State Fair was won by MR. L. G. CLUTE—exclusively with the products of BURPEE'S SEEDS. Mr. Clute was made Superintendent of Iowa's Agricultural Exhibit at the World's Fair. He wrote us from St. Louis, November 21, 1904, that in this great Iowa Ex-



LAST COVER PAGE OF THE "LEADING AMERICAN SEED CATALOGUE"

Pennsylvania and New Jersey, supplemented by private contracts throughout America and Europe, subject also to our careful personal inspection. We have no branch establishments, and all orders must be addressed to

W. ATLEE BURPEE & CO., Philadelphia, Pa. Mention the Florists' Exchange when writing.

CRIMSON RAMBLERS 2 years; \$12.00 per 100

Our own growing. On their own roots. Considerable stock of other roses: field-grown, dormant plants; on own roots and budded.

JACKSON & PERKINS CO., Newark, New York Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND. Mention the Florists' Exchange when writing.

Bay State Nurseries

High grade Nursery Stock of every description; free from disease; carefully packed; prices reasonable. Personal attention given to every order.

Windsor H. Wyman, North Abingdon, Mass. Mention the Florists' Exchange when writing.

Baby Rambler THE NEW ROSE

Strong dormant plants for December delivery, \$4.50 per dozen; \$35.00 per 100.

JAMES VICK'S SONS ROCHESTER, N. Y. Mention the Florists' Exchange when writing.

F. & F. NURSERIES SPRINGFIELD NEW JERSEY Wholesale Growers TREES AND PLANTS in full assortment Trade Catalogue Free

AMERICAN TREE SEEDS AND PLANTS Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it. OTTO KATZENSTEIN & CO. Tree Seeds and Plants Specialists, ATLANTA, GA

Vegetable Plants Greenhouse Plants

2 1/2-inch stock in Al condition. Not less than five of any one variety sold

GERANIUMS Good, strong stocky plants, from 2 1/2 inch pots.

Doubles. Brunati, Comtesse de Harcourt, La Favorite, Miss F. Perkins, Miss Kendall, Mme. Charrot, Mme. Barney, Mme. Buchner, Mme. Canovers, S. A. Nutt, 40 cts. per doz., \$2.00 per 100, \$20.00 per 1000.

Singles. Granville, L'Aube, Queen of the West, Single General Grant, 40 cts. doz., \$2.00 per 100, \$17.50 per 1000.

DAHLIA ROOTS Good selection of standard varieties, \$5.00 per 100; \$40.00 per 1000. Mixed, \$1.00 per 100; \$35.00 per 1000.

CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per 100; \$1.00 per 1000; \$8.50 per 10,000.

PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.

LETTUCE Big Boston, Boston Market and Grand Rapids, 25 cts. per 100; \$1.00 per 1000.

CASH WITH ORDER, PLEASE. Write for special prices on large lots of anything in this list.

R. VINCENT, JR. & SON, White Marsh, Md. Mention the Florists' Exchange when writing.

VIOLETS

Marie Louise, clean and healthy in every particular, \$5.00 per 100; \$45.00 per 1000. Cash with order. W. J. CHINNICK, Trenton, N. J. Mention the Florists' Exchange when writing.

Maman=Cochet Roses

Extra strong, two year old field-grown, own root plants. White and pink. Bal. of 10, \$1.40; per 100, \$12.50; per 1000, \$110.00.

PALISADES NURSERIES, Sparkill, N. Y. Mention the Florists' Exchange when writing.

HARDY NATIVE PENNSYLVANIA RHODODENDRONS

Large clumps, 3 to 6 feet high; finest stock of Hardy Forest Collected Rhododendrons in the United States, especially suited for planting on fancy lawns and large estates; large orders especially solicited; can furnish 100 car loads. Prices right. Also

200,000 EXTRA FINE APPLE TREES very cheap: fine stock of Plum, Pear, Peach, Cherry and Quince Trees at reasonable prices. Full line of small fruits. We solicit your inquiry and order. Address

The Riverside Nurseries CONFLUENCE, PA. Mention the Florists' Exchange when writing.

Large Shrubs

Viburnum Tomentosum, fine bushes, \$25.00 per 100. Dentzia and Halesia, 8 to 8 ft., \$20.00 per 100. Crimson Bark Dogwood, 4 to 5 ft., \$18.00 per 100. Tree Altheas, 7 to 8 ft., \$6.00 per dozen. Large Assortment of Trees and Shrubs.

SAMUEL C. MOON, MORRISVILLE, PA. Mention the Florists' Exchange when writing.

HEMLOCK and WHITE PINE Large Stock. All Sizes. ANDORRA NURSERIES Wm. WABNER HARPER, Prop. Chestnut Hill, PHILA., PA. Mention the Florists' Exchange when writing.

GERANIUMS

Nutt, Vland, Buchner, Ricard, Perkins, Doyle and Poitevine, 2-in pots, \$2.00 per 100, \$20.00 per 1000. Vinca Variegated, 3-in pots, \$4.00 per 100. Rooted cuttings, as follows: Salvia, Vinca Var., Sweet Alyssum and Heliotropes, \$1.00 per 100. Fuchsias, Double Petunias and Feverfew, \$1.25 per 100. Coleus and Ageratum, 80c. per 100. Cash with order.

ERNEST HARRIS, DELANSON, N. Y. Mention the Florists' Exchange when writing.

UNRIVALED COLLECTION OF 30,000 DOUBLE PETUNIAS

Beautiful Whites, lovely shades of pink, splendid reds, crimson and purple and variegated. Rooted cuttings, by mail, \$1.25 per 100; \$10.00 per 1000; by express, 2-in. pots, \$2.50 per 100. Abutilon, 8 vars., R. O. 1.00 2.00 Mme. Sallier, R. O. 1.50 2.00 Ivy Geranium, R. O. 1.50 2.00 Lantana, dwarf, 7 varieties. 1.25 2.00 Trailing Lantana, R. O. 1.25 2.00 Genista Fragrans, 4 in., large. 8.00 9.00 Genista Fragrans, 4 in., second size. 5.00 6.00 Strobilanthes Dyerianus, strong, September cut. 1.50 2.00 Gazania Splendens, R. O. 1.50 2.00 Ageratum, 3 varieties, R. O. 75 1.00 Cuphea, cigar plant, R. O. 75 1.00 Salvia, dwarf and tall. 1.00 1.50 CASH with order, please.

GEORGE J. HUGHES, Berlin, N. J. Mention the Florists' Exchange when writing.

CYCLAMEN SPLENDENS GIGANTEUM HYBRIDS.

My well-known strain in bud and bloom in four colors, from 5 in. pots, \$2.50 per doz., \$20.00 per 100.

PRIMULA OBCONICA The celebrated "Ronsdorfer & Lattman's" hybrids, all colors, well-grown plants from 3 1/2 in. pots, \$8.00 per 100; from 5 in. pots, \$1.80 per doz., \$15.00 per 100, all in bud and bloom.

PRIMULA CHINENSIS Chinese Primroses (ringed), no better strain, in bud and bloom, from 4 in. pots, \$10.00 per 100; from 5 in. pots, \$15.00 per 100.

ASPARAGUS Plumosa Nanus, fine, bushy stock, from 2 1/2 in. pots, \$3.00; from 3 in. pots, \$5.00; from 3 1/2 in. pots, \$8.00 per 100.

Satisfaction Guaranteed PAUL MADER, East Stroudsburg, Pa. Mention the Florists' Exchange when writing.

GERANIUMS

Transplanted, several in a pot, soil readily shaken off to ship. Good young plants that grow well. Doyle, Ricard, Brunati (true Grant), Nutt, Castellana, Labrie, Vland, Poitevine, Buchner, etc. All doubles, \$1.50 per 100, \$15.00 per 1000. Ready now. COLEUS R. C. Red, Yellow and Red gold-edged, 80c. Fancy all select bright, 50c. Glant, large velvety leaves, over 20 vars., grand colors, \$1.00 per 100. Cash, please. DANIEL K. HERR, LANCASTER, PA. Mention the Florists' Exchange when writing.

KOSTER & CO.

Hollandia BOSKOOP, HOLLAND Nurseries Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies. Pot-Grown Plants for Forcing. RHODODENDRONS, H. P. ROSES, Etc. Catalogue free on demand. Mention the Florists' Exchange when writing.

DO YOU WANT ANY?

2000 Hydrangea Paniculata Grandiflora, 2 years old, 2 ft., 8c. 2000 Hydrangea Otaksa, for 4 in., 8c.; 2 1/2 in., 3c. 2000 Spraea Anthony Waterer, 2 years strong, 2ic.; 500 medium, 12c. 1000 Clematis Pan- old, 8c. 500 Clematis Jackmanni, 2 years, very leucata, 3 years old, very heavy, 10c. 1000 Ampelopsis Veltheil, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyanea, field-grown, 3c. 5000 assorted shrubs, vines, dahlias, etc. Send for list.

BENJ. CONNELL, West Grove, Pa. Mention the Florists' Exchange when writing.

PANSIES THE JENNINGS STRAIN.

Fine stock, choice colors. Large plants, in bud and bloom, \$1.00 per 100. Smaller sizes, from cold frames, \$3.50 per 1,000, by express. Small plants, by mail, 75c. per 100. Seed, \$1.00 per pkt.; \$5.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box Southport, Conn. Grower of the Finest Pansies. Mention the Florists' Exchange when writing.

GERANIUMS

ROOTED CUTTINGS Fifteen varieties at \$10.00 and \$12.50 per 1000. Send for complete price list of Geraniums and Carnations.

ALBERT M. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

TO MAKE ROOM

We have ready now 100,000 Geraniums, composed of the following varieties in 2 1/2 in. pots, at \$18.00 per 1000; \$2.00 per 100. S. A. Nutt, Beante Poitevine, M. Canavass, Double Gen. Grant, Brunati, R. Brat, E. O. Hill, La Favarite, Perkins, all in fine condition. Fuchsias, in variety, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, \$1.50 per 100. Coleus, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, 60c. per 100. Heliotrope, all dark, 2 1/2 in. pots, \$3.00 per 100; rooted cuttings, \$1.00 per 100. Violas, strong, 4 in. pots, \$5.00 per 100; rooted cuttings, \$1.25 per 100. English Ivy, 2 1/2 in. pots, \$2.50 per 100; rooted cuttings, \$1.25 per 100. German Ivy, 2 1/2 in. pots, \$2.50 per 100. Abutilon, Souvenir De Bonn, 2 1/2 in., \$3.00 per 100. Feverfew, 2 1/2 in., \$2.50 per 100. Dracena, 4 in., \$3.00 per 100. Asparagus Plumosus, 3 in., in fine shape; 4.00 per 100. Cash must accompany the order. J. E. FELTHOUSEN, Schenectady, N. Y. Mention the Florists' Exchange when writing.

BUY NOW FOR STOCK

OR GROWING ON FOR SPRING SALES 250 at 1000 rates. All from 2 1/2 or 2 3/4 inch pots

Geraniums including Nutt, Ricard, R. Poitevine, Mme. Barney, etc., strong stock, \$25.00 per 1000. Our choice of varieties in assorted colors at \$20.00 per 1000.

Coleus 10 best market varieties, \$2.50 per 100; \$20.00 per 1000.

Ageratum Stella Gurney and Princess Pauline, \$2.50 per 100; \$20.00 per 1000.

Heliotrope Dark purple and blue, named varieties, \$3.00 per 100; \$25.00 per 1000.

Hibiscus Peachblow, grandest variety out, \$3.00 per 100.

Primula Forbesii \$2.50 per 100; \$20.00 per 1000.

Flowering Begonias In variety, \$3.00 per 100; \$25.00 per 1000.

THE STORRS & HARRISON CO., Painesville, O. Mention the Florists' Exchange when writing.

Dracena Indivisa \$3.00 per 100; \$25.00 per 1000.

Boston Fern well established, \$30.00 per 1000.

Abutilon Eclipse, \$3.00 per 100.

German Ivy \$3.50 per 100.

Manettia Bicolor \$2.50 per 100.

Cuphea Platycentra \$1.50 per 100.

Asparagus Plumosus \$3.00 per 100.

Asparagus Sprengeri \$2.50 per 100.

Kentia Belmoreana Clean, stocky plants with several leaves, \$5.00 per 100; \$45.00 per 1000.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen, Seedsmen and the Trade in general

Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter.

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Telephone, 3765 John

ILLUSTRATIONS.

Electrotypes of the illustrations used in this paper can usually be supplied by the publishers. Prices on application.

YEARLY SUBSCRIPTIONS.

United States, Canada and Mexico, \$1.00. Foreign countries in postal union, \$2.50. Payable in advance. Remit by Express Money Order, draft on New York, Post Office Money Order or Registered Letter.

The date on the address label indicates when subscription expires.

REGISTERED CABLE ADDRESS:

Flores, New York.

ADVERTISING RATES.

One-half inch, 75c.; ¾ inch, \$1.00; 1 inch, \$1.25. Special positions extra. Send for Rate Card, showing discount of 10c., 15c., 25c. or 35c. per inch on continuous advertising. For rates on Wants, etc., see column for Classified Advertisements.

Copy must reach this office Thursday morning to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

To Our Readers.

The contents and indices to advertisers will be found on page 22.

An Index to Volume XVIII. of The Florists' Exchange accompanies this issue.

Through the pressure on our columns last week and this, caused by the reports of the Christmas trade received from many places throughout the country, some interesting articles, as well as illustrations, are unavoidably held over for another issue.

Some New Year's Resolutions.

I will subscribe (or renew my subscription) for The Florists' Exchange now.

I will advertise in The Florists' Exchange whenever I have anything to sell, because I feel sure it will pay me well to do so.

I will let the trade know that I am enlarging my greenhouse capacity, changing my location, or the personnel of my firm, by a little note in The Florists' Exchange.

I will tell my friends and neighbors in the business what a first-class paper The Florists' Exchange is for those engaged in the florist, nursery, seed and allied trades.

I am a retailer, and will show my fellow craftsmen the high-class character of the floral designs I turn out, as well as the neat store I have, by a picture and brief description in The Florists' Exchange.

I will do my little share for the general good, by writing occasional articles for The Florists' Exchange on subjects with which I am perfectly familiar, and where my treatment of them would help my fellow florists.

I will comment, in a friendly spirit, in the columns of my favorite trade paper, on articles appearing therein when the writers' statements are not in accord with my own experience, so that the subjects discussed may be presented from every point of view.

I promise to treat everyone with whom I have dealings fairly and squarely; and will do my best to help eliminate from the business all objectionable features and objectionable practices, by exposing them. I have an honest pride in my profession, and wish to see it elevated to and maintained at its highest standard.

I will send to The Florists' Exchange a picture of these new, or well-grown plants and flowers I have raised, as well as of that fine house of carnations, roses, or other stock; also a photograph of my tasteful home grounds, truly representative of my business; not that I am vain of the results obtained, but just to show that I know what I am doing.

I will affiliate myself with my nearest florists' club; and will also become a member of the S. A. F. O. H., and the other special societies in which I am interested, because I desire to encourage them in the grand work they are doing for myself and others in the business. I will attend as many of the meetings of my local club as possible, contribute when I can to its monthly and other shows when held, and otherwise take an active part in its operations.

In short, I will try to prove myself an exemplary tradesman, in every particular, a worthy, though humble representative of the great and noble vocation in which I am engaged.

Some Trade Paper Truths.

It may be that in the hurry and bustle of everyday life, the average tradesman gives little, if any, consideration to the papers which represent his industry, so far as their serviceableness to himself is concerned; and on that account he is apt to be the loser, especially if he is an advertiser. There are certain fundamental requisites connected with the operating of a trade paper that must be present before its greatest usefulness to its subscribers and advertisers results. These were ably discussed recently in "Profitable Advertising," by men having many years of experience in the making of trade journals of various classes; and we take the liberty of presenting some of the views held, at this opportune time, confident that those engaged in horticultural and allied pursuits will profit by a perusal of same, if due consideration be given the truths so well set forth.

Henry J. Bohn, editor of the Hotel World, says:

"What place in commercialism is filled by a trade or class journal? Some trade journal publishers will answer that it is as advertising media between the wholesaler and the retailer, manufacturer and consumer. This, in the mind of the true trade journal publisher and editor, is a fundamental error. A publication pretending to represent an industry which is nothing more than a price-list or bulletin of display advertisements, with a few columns of wishy-washy trade news or items about advertisers, is not a trade journal; it is not an advertising medium; it is a 'fake' pure and simple.

"The value of a trade journal is measured by the strength of its editorial page, by the completeness and correctness of its trade news and by the number and excellence of its technical essays and discussions. These are the only things which can win the business man's admiration, respect and support; the character and value of these alone bring and hold subscribers and advertising patrons.

"Many trade journals are conducted on the principle that there must never be anything in the reading columns that runs counter to the opinion or sentiment of the persons engaged in the industry represented by the journal. I have known the editors and publishers of such publications to throw up their hands at the suggestion that an editorial page was useful or admissible in a trade journal—declaring that the editorial would kill the patronage of a trade journal! A publication conducted by such men is a milk-and-water affair that is without value to its readers or advertisers. No trade journal that has not a strong individuality, independent ideas and opinions, with the nerve to discuss the good and the bad things in the field represented with a free and independent spirit, is worth more than the paper upon which it is printed.

"It is a fundamental fact in human nature that anything is valued largely at what it costs, and a man who gets a thing for nothing places that value on it. The only man who is worth anything to the trade journal advertiser is the man who pays full rate subscription year after year and reads his trade paper as religiously every week or month as he reads his favorite literary magazine or morning paper.

"There are two different kinds of patrons of trade journals. One class unreasonably expects absolute and definite results from every dollar spent in advertising; they figure no contingent value in the general publicity in any line that an advertisement gives; they figure only the specific returns at that particular time; they do not reason that the heads of departments and other employees in any line who are to-day not purchasers, but largely readers of trade journals catering to the line in which they are employees, will in a few years be managers and proprietors in these industries, and the fact that their advertisement has been kept before these men will lead to future business. It is bread upon the waters. The other class of advertisers in trade journals is entirely without discrimination; anything and any publication that bears a name indicative of their particular line of industry, receives their consideration and likewise their patronage. These trade journal patrons are known to the veterans in the field as 'easy marks,' and are legitimate prey for every new publication that starts in any field, whether it has real value or not."

Frederick D. Hale, of the Shoe Retailer, remarks as follows:

"There are advertisers who decide at the beginning of each year how much money shall be expended in trade advertising, competent to so decide after years of costly experiment with mediums. Others there are who 'go it blindly'—the first advertising solicitor who visits them ties up their appropriation, and even if the results of their first few months' advertising do not equal their expectations, they have so committed themselves that they hesitate to change mediums and the end of the year's campaign finds them firmly convinced that 'advertising is purely an expense.'

"There is a method of estimating the value of any trade journal that is so simple that I have hesitated to use valuable space in pointing it out. Study the wants of the readers of trade journals in any field, then study the contents of the various publications which are offered them, and judge for yourself which of the prospective mediums best supplies the demands of the reader to whom you wish to introduce your product. To do this, you must, so far as may be, step out of your position, that of a manufacturer or wholesaler, and try to look at each paper through the spectacles of the subscriber for trade journals—the man into whose store the postman brings the various publications—the man whose check is drawn to pay the cost of subscription—the business man who neither pays for nor spends time in reading a paper without having a definite object in view—the man who makes the best customer.

"Of all these publications which reach the reader perhaps two come at his order—he receives the rest because their publishers are using the 'sample copy' method of increasing their circulation. These unbidden guests may well be set aside—experienced analyzers of advertising value will state, without reserve, that not one per cent. of the advertisements appearing in journals which are habitually sent to merchants free of cost bring appreciable results.

A Disgrace to Indiana.

In the Seventeenth Annual Report of the Indiana Agricultural Experiment Station (Purdue University) for the year ending June 30, 1904, and just issued, we read with regret the following statement in the Report of the Botanist, Professor J. C. Arthur:

"The numerous experiments on the cultivation of various garden and field crops, as well as Winter crops under glass, which have been carried on for many years, have been wholly abandoned for want of funds to keep the greenhouse in repair and to provide the requisite labor in handling and watering the plants."

It seems to us, in view of the most excellent work done by Professor Arthur, especially with respect to the combating of carnation rust and other diseases affecting that plant, as well as in the development and perfection of sub-watering on greenhouse benches and otherwise, that the condition mentioned in the report should not, if possible, be allowed to persist. The matter should be taken up strongly by the State Florists' Association of Indiana, backed by the trade throughout the country, and the State Legislature petitioned, so that sufficient appropriation be granted for the proper conduct of this important and necessary as well as generally serviceable portion of the station's operations. The floricultural interests of the country can ill afford to permit the abandonment of the work in their behalf of any experiment station that has proven itself worthy of support, in view of the fact that so few of these institutions render floriculture any real service.

PAMPHLETS RECEIVED.

TRANSACTIONS OF THE MASSACHUSETTS HORTICULTURAL SOCIETY FOR THE YEAR 1904. Part I.

This report is one of the most interesting of the many interesting reports issued by this society, and is particularly valuable to the florist. Considerable space is given up to a discussion of the now popular peony, a most exhaustive paper on this subject being contributed by Robert Tracy Jackson, of Cambridge, Mass. The same gentleman furnishes an exceedingly interesting account of John Richardson; His House and Garden, with accompanying illustrations. Mr. Richardson was well known as a skilful horticulturist, and especially known for the choice seedling peonies that he raised. He was born in Boston, February 19, 1798, and died in Dorchester, Mass., 1887. Mr. Jackson reviews the work, horticulturally, which Mr. Richardson accomplished, and has succeeded in providing a very instructive story.

Society of American Florists and Ornamental Horticulturists.

Department of Plant Registration.

H. D. Seele, Elkhart, Ind., submits for registration the following new cannas:

HON. W. R. HEARST, scarlet, mottled and edged with golden yellow; outside of petals almost pure yellow.

SENATOR HANNA, pure orange, tinged with golden yellow.

MRS. JOHN A. LOGAN, scarlet, with broad yellow golden border; resembles Queen Charlotte.

CARNATION MRS. W. L. LEWIS.—W. L. Lewis, Marlboro, Mass., submits for registration seedling carnation Mrs. W. L. Lewis (Flora Hill × Mary Wood); color snow white; flower three inches across, well-built, with long and stiff stem. A burst calyx has never yet been seen on it. The bloom is a good keeper.

WM. J. STEWART, Secretary.

OUR READERS' VIEWS.

(Contributions to this Column are Always Welcome.)

Handling Cut Poinsettias.

Editor Florists' Exchange:

To keep these fresh after being cut have a wax candle and let the wax drop on the stem to keep the sap in the stem. The wax will get hard and close the pores of the stems and keep them from wilting. I have always found this the best way to handle them, as they will always wilt after being grown in a very warm house; the wood is very milky.

JOHN BURFEIND.

Peony Golden Treasure (?)

Editor Florists' Exchange:

The name of the peony referred to in The Florists' Exchange, page 785, by Ernest Hemming, should, without doubt, have been "Floral Treasure," instead of "Golden Treasure." I am not aware that there is a peony by the name of "Golden Treasure." The two varieties mentioned originated here about eighteen years ago, and were first sent out in the year 1900. They are scarce varieties; the propagation of a peony is very slow at first.

West Point, Neb.

J. F. ROSENFELD.

ELIZABETH, N. J.—E. E. Rynyan, of the Elizabeth Nursery Company, sails for Cuba this Saturday, per steamer Morro Castle, to look after the interests of the Cuba and United States Fruit, Nursery and Mercantile Company, of which concern he is president. The company's property is located at Guanaja, where it already has 30,000 orange trees planted out in the nursery row.

William Falconer Replies to Job.

EASY NOW, JOB, EASY (Page 593).—You're awfully down upon the Scotchman, Job. Easy, man, easy! And you poke fun at the Highland dress and the "abominable" bagpipes! Job, Job, what blood is in your veins, anyway? Had you in your childhood days watched the Highland soldiers drill on the parade ground at Fort George or on the links at Inverness as I did, and noted that their every movement was in obedience to the soul-stirring, martial bagpipes, your revulsion would be veneration. And to dissociate the pipes from the kilt would be like porridge without salt. Still, I have neither pipe nor kilt myself. And I must candidly admit that I prefer to see men in America, no matter if they be Scotchmen, wearing breeks.

Now, Job, unwittingly you have done me a great injury; you lit a candle and hid it under a bushel. For twelve and one-half years I lived on Long Island a prey to countless myriads of mosquitoes, and all of that time assiduously cultivated the mosquito-catcher plant (*Vincetoxicum acuminatum*), but I caught only one sucker in a billion, and we rested behind closed netting, and still they "ate us alive." Why didn't you tell us then of the bagpipe antidote so that we could have John Birnie come out and give us a tune, and reap our everlasting gratitude? But better late than never. In Pittsburg we have no mosquitoes; but we have here a bagpipe band, and, maybe, that accounts for our immunity.

I don't like the way some folks poke fun at Jemima. Jemima's all right. I like her kind of picnics. And when she gets one up, you'll be there; won't you, dad? And I hope she'll invite me. Then won't we have a jolly time? You know there are no fools like old fools.

SPEAKING OF OLD FOLKS, reminds me of my very esteemed friend, Denys Zirngibel, the pausy man, of Needham, Mass. I saw his name in The Florist's Exchange the other day. What a blessing it is to have these veterans here, more especially when we reflect on their broad experience and useful and exemplary lives! Long may our dear octogenarian friend be with us!

THE CANUCKS, TOO, JOB!—Well, I never saw the Canadian Florist so far as I can remember, so only know one side of the question. But Canada is mighty uppish toward us. When the Society of American Florists was founded it covered Canada and the United States, and our northern neighbors took to it heartily. And after a few years the annual convention was held in Toronto. But the Canadians wouldn't stay with us. According to this year's (1904) report of this society, only seven men in all Canada, including Manitoba, belong to the S. A. F., and the name you mention is not one of them. But they grow magnificent flowers and apples there, and some of the finest roses in the Pittsburg market come from Canada.

THE NEW "HORTICULTURE" (Page 755).—Job, Job, you're a merciless cuss. I would not wish my greatest enemy severer punishment than to have him start a new gardening paper and live on the profits. Have some Christian spirit, man, and give the boy a boost, rather than a kick. Our weekly florist trade papers, gossip or no gossip, are the best of their kind extant. But when it comes to private or amateur gardening papers there is surely room at the top. There is now a positive need and an immense field for such a weekly; but to make it a success it must have a living editor, a live publisher, and a little more money. In years gone by I was an editor (were you one, too?), and I worked hard; but where, oh where is my baby pet to-day? You see those of us who have made the biggest failures are apt to be the ones who can dictate to others the loudest, and be the most critical as regards their honest endeavors.

DON'T GET MAD WITH ME, JOB (p. 783).—Because the chairman asked me a simple question, and I endeavored to answer in my humble way, you jump on me with both feet and tell everybody that there isn't a new idea in my whole carcass, except the "desecration of the Sabbath." Job, Job, how could you? You know it is patent to everyone that when men reach my time of life, and yours, we get worn out in mind and body, and it is pretty hard to evolve a new idea, and the youngsters are aware of this and laugh. And when we rant and rave, and find fault with everybody and everything, the young men simply look sideways at one another and smile, which being interpreted means, I suppose: "Oh, poor fellow, take no notice of him; he's past his usefulness; he is getting old and daffy."

"EVEN HELL ITSELF" you say! Don't go there, Job. I've heard that it's a bad place, "prepared for the devil and his angels." And you aren't one of them, are you?

YOU SPEAK of the dominie discoursing horticulture. Pulpit orations on horticulture may be out of place, Job, but the church is wider than the personal dominie and the Sunday pulpit. At the same time, some ministers in themselves move the world in gardening. Job, both of us have basked in the sunshine writings of S. Reynolds Hole, Ewebank, Ellacomb, Hemsley, Berkeley and other world-renowned divines, whose horticultural scope and force were international. And didn't they move you to greater enthusiasm in your calling, and a greater love for your fellowmen? Who could draw near unto them without being enthused? Yes, Job, and not one of them was a Scotchman? I refrain from mentioning a Caledonian, lest it might rile you. And let me tell you of

A BIG-HEARTED DUTCH PARSON. A few years ago the florists of Pittsburg determined to hold a public flower show at the rose and paony season, and we hunted high and low for a suitable place that would be central and easily accessible. We were about worsted when some of the boys thought of the Rev. Frederick Rouff, the pastor of the big German church, corner of Smithfield street and Sixth avenue, a most central place. At once and with all his heart the broad-minded minister let us have the school-room of his church for our flower show, with light, janitor's services and other conveniences, and all free of any charge. We gave no premiums and charged no admission fee. Ourselves and friends furnished the flowers, and everybody was invited to visit the show, and it seemed that everybody came. We were to stay one day, but so urgently did the public plead with us to keep open another day, and so pleased was the reverend gentleman to have us, that we kept open a second day. And he declared he was more pleased to have us than we were to be with him, and he warmly invited us to come back whenever again we needed a place for a flower show. Divine grace glowed on the face of every visitor to that show, and the minister saw it, noted it, and gloried in it; even the boys and girls running loose on the streets came in, and the quiet of their demeanor and sweetness of their expressions as they walked up and down alongside of the flower tables admiring the posies, were a joy to experience. And the children went out and brought in other children. Who will dare say the seeds of horticulture were not planted there? And every florist's and gardener's heart—Scotch, Irish, Switzer and American, as well as German, went out in love to that noble German minister, and neither he, nor his church officers, nor one of us thought the flower show was a desecration of the house of worship, nor that its results were other than "holiness."

WILLIAM FALCONER.

Contrastive Conditions of the Boston Market.

Editor The Florists' Exchange:

In consideration of amount invested, my subscription to your valuable and progressive trade paper has proved the most pleasant and profitable investment ever made. Through the medium of your advertising columns I have been introduced to many growers and manufacturers incidental to the trade. I believe this acquaintance has been mutually agreeable to all concerned, as I have invested a goodly sum among your advertisers throughout the year.

There is, however, I believe, another trade section to which I and others would appreciate the favor of an introduction. I refer to the section of the City of Boston from which your correspondent secures information as to the existing conditions and prices of cut flowers in their respective seasons.

Reviewing the Christmas trade, your Boston correspondent states: "In carnations there seemed to be about enough of all kinds to supply demands; in fact, in some sorts such as the white varieties, the market was druggy." "As already mentioned, white carnations did not sell and were a glut on the market." Mr. Duncan's remarks evidently explained the conditions in some section where printers' ink is not appreciated. During the entire month of December, and especially during the week preceding and the week following Christmas, I had an enormous demand for white carnations. I corresponded with every advertised wholesale florist in the City of Boston, whose name I was able to secure through the trade papers. I also wrote several large growers asking for prices and offering cash with order if they would part with a few, or a quantity, of white carnations. The wholesalers' response to my inquiries for quotations brought a reply stating the common grades of standard varieties of white carnations were worth \$4 to \$6 per hundred. Certainly, a most contrastive condition to the situation explained by your correspondent.

The growers refused to sell; stating their supply was placed. I concluded white carnations could not be obtained at a reasonable price and consequently did not buy. Had I been fortunate enough to locate the section and prices explained in your review of the market, I could have disposed of thousands and thousands of flowers. A most interesting part of the story is that I was willing to put the cash right in the wholesalers' or growers' fist before he shipped the goods; more than that, I would gladly have paid all cost of packing and delivery to express office. If white carnations are a glut on the market, it seems to me that these conditions are brought about by fabulous prices asked by dealers and not by overproduction.

It seems an injustice to the industry and its promoters that such conditions exist; no demand for the goods in a great city and only an hour away is a town filled with people with ready money to buy something that is termed a "glut," and which they cannot secure.

I sincerely trust your valued correspondent will not look upon this suggestion in an unkind light, for I certainly would be deeply grateful to find a locality where goods can be purchased at his quotations of the Boston market. I would buy 3,000 white carnations to-day (January 3) could I secure them at the ruling market price; but when the cash buyer comes "down the line" the price becomes mysteriously inflated.

A. CARNATIONIST.

The Worcester County (Mass.) Horticultural Society issues a very interesting program of subjects for discussion during January, February and March, 1905.

Our London Letter.

By A. HEMSLEY.

One of the most instructive chrysanthemum shows we have had was that for market growers, which was promoted by the National Chrysanthemum Society, and held in London on December 14, last. Here we had all the best varieties suitable for late work. In some shades of color varieties were numerous, and it would be difficult to say which were really the best, yet from a careful scrutiny, I should say that in whites, Mlle. Therese Panconcki took first honors; Snowdrift, Purity, Heston White, Winter Queen, Princess Victoria and Western King. The last named has been one of the best seen in the market for some time. Yellows were numerous, Nagoya being one of the best. W. R. Reiman, Allman's yellow, Francois Pilan and Mabel Morgan (pale yellow). In bronze, Tuxedo and Lord Brooke were the best seen. There were several good pink varieties shown. Ethel Perry, one of the newest, was very good; Framfield Pink, Lady Nina Balfour, and the new French variety Mlle. Louis Charnet was particularly good. Of crimsons, Lady Beaumont and Mathew Hodgson were the best. In novelties, Golden Standard, a bright yellow sport from Tuxedo, took first honors, securing a first-class certificate, and also the society's medal for the best novelty. Boxes packed for market were shown, and some remarkably well-grown pot plants; the old favorite W. H. Lincoln dwarf plants in five-inch pots with about 18 well-developed flowers, and Framfield Plnk, Lady Nina Balfour, Guy Hamilton and others were equally good.

Pot chrysanthemums have been unusually good in market this season, and the best plants have made up to 3s. 6d. each, and a good many have sold at 30s. per dozen.

Poinsettias are very good this season; they were in earlier than usual. The earliest is a distinct variety, not quite so intense in color, but forms fine heads of bracts and stands exposure well. Although close on Christmas, they do not make quite such good prices as usual; some very good stock has been selling at 9s. per dozen.

Begonia Gloire de Lorraine is now grown extensively and they must be something extra good to make over 9s. per dozen in 5-inch pots. Some extra fine specimens in 6-inch pots were realizing 2s. 6d. each. The white variety, Turnford Hall, is also very good, and is now down to the same price as Lorraine.

Lily of the valley has been very abundant both in pots and cut, and prices have been low; but it seems likely that, later on, there may be a shortage, as best forcing crowns are getting a little scarce, and prices for these are certainly advancing.

Lilium longiflorum blooms have been very plentiful all through the season, and even now at Christmas time there is but little advance in prices. Lilium auratum has been very plentiful for some weeks past.

In carnations the American varieties make top prices; Enchantress go up to 6s. per dozen blooms.

We now get quite a large supply of orchid bloom, Odontoglossum crispum, Cattleya labiata, and cypripediums of various sorts being the leading kinds. The cattleyas make from 6s. to 10s. per dozen blooms, and the others about an average of 2s. 6d. per dozen blooms.

THE WEEK'S DEATH LIST.

C. B. Derthick.

Chas. B. Derthick, of Ionia, Mich., died suddenly on December 23, 1904. Death was due to a stroke of paralysis. Mr. Derthick was born in Akron, O., November 28, 1855. At the time of his death he was engaged in the insurance business, and was also associated with Messrs. Amphlett and Sanderson in the sale of Akron stoneware. In 1897 he bought a controlling interest in the Ionia Pottery Company, and was elected successively director, secretary, and treasurer and general manager of that concern. He was a most zealous and efficient manager of all interests intrusted to him. The deceased gentleman was a member of the S. A. F. O. H., and was well acquainted with many florists, from his being a regular attendant at the society's conventions. A widow and one daughter survive him.

Patrick G. Quinn.

Patrick G. Quinn, a well-known florist on Arlington avenue, St. Louis, was killed the past week while out driving near his home through a teamster neglecting to conform to the right of way of the road. He was for twenty-five years foreman for J. M. Jordan in the days of William Newett and Frank Brill. The funeral took place Monday and was attended by the tradesmen, who knew Pat well. A widow, three children and two brothers are left to mourn his loss. The family has the sympathy of all in the trade.

ST. PATRICK.

John Fallon.

John Fallon, of Richmond, Va., died at his residence there, on December 27, 1904, aged about seventy-two, after a few days' illness with pneumonia. Mr. Fallon had been the leading florist in this section for over forty years, and was one of Staunton's most substantial business men. He is survived by three sons and three daughters. He had been a member of the Hibernians for many years.

Notes on Current Comment.

BY WILLIAM FALCONER.

MODESTY IN NEW JERSEY.—In The Critic, page 116, August last, we read "The School Board of New Brunswick, New Jersey, is said to have excluded the teaching of botany in schools 'On account of the polygamous habits of flowers.'" Isn't the modesty of that Board angelic?

THE GARDEN AT BURNS' COTTAGE, WORLD'S FAIR, ST. LOUIS.—In a recent Florists' Exchange I wrote something about it that evidently didn't please the folks out there. And now in a New York Scottish periodical the "Press Agent for the Burns' Cottage Association" takes me to task about it. The "Press Agent" says I "omit to mention the homely Scotch flowers that are growing in the 'bed.'" Neither does the "Press Agent," and no doubt for the same reasons that I didn't. Further, the "Press Agent" writes: "The Burns' Cottage Association considered it a matter of regret that it was not possible to secure the services of Mr. Falconer himself in arranging the outside environment of the Burns' Cottage. He was asked a number of times to take some interest in what every Scotchman in the United States ought to consider a matter of personal pride, but did not accede." Great heavens, what a whopper! Aside from a contribution, which I gave immediately and cheerfully, I never was asked to do anything, hence never refused.

PAY YOUR DUES.—In the Pittsburg and Allegheny Florists' Club we have 147 members, prompt and right good fellows, and we have fine, big monthly meetings, but nothing like such big ones as when we have a smoker. That takes most everybody out, even the delinquents. At our last smoker the committee ruled that no delinquent members would be admitted. Well, you'd a-pitied the poor secretary; he couldn't have any fun at all. His whole evening was occupied receiving and receipting for dues.

YOUR PRIVET HEDGE.—Last Winter was very hard on our hedges; many pieces were killed outright, other parts to the ground, and in more sheltered parts, while not all dead, a good deal of the twiggy wood was dead. With a heavy mulching of tree leaves or rotten manure over the roots, close up to the plants, along both sides of the row, no matter what becomes of the tops, we can save the bottoms to the snow line anyway. To the plants in nursery rows throw up a furrow of earth on both sides.

NEWLY PLANTED TREES OR SHRUBS.—In the case of newly planted trees, where the roots are moist and the ground well-firmed, it is a good plan to heap up the dirt over the roots in Winter to above the ground level, to hold the tree well in place, to prevent the frost from raising it, and to shed off an excess of moisture. In Spring, though, this heap of dirt should be leveled off, and towards Summer an indentation rather than a mound made to catch the water.

CLEMATIS PANICULATA.—The vines are perfectly hardy and live over to their tips year after year, but don't treat them that way; cut them right down to the ground every Winter as you would a phlox or a delphinium. They will grow up again next Spring as vigorously as or more so than ever; attain as thick a body and as great a height as those left uncut, and blossom as full, and they will have the advantage of being clean throughout and branchy to the ground.

THE GARDENER'S ASSISTANT.—It is with great pleasure I note you advertise this book. It was first gotten up by the late Robert Thompson, superintendent of the Royal Horticultural Society's Gardens at Chiswick, London. Mr. Thompson was then one of the best and most experienced all-around gardeners in Europe, if not the very best, and his field of observation, practice and experiment was greater than that of any other man then living. It was the first book on gardening I ever owned. About 38 years ago I subscribed for it in monthly parts, 2s. 6d. a part. My wages was only 6s. a week. It was complete in 12 parts and then I had it bound, and that old and well-thumbed and blackened volume has a place of honor in my library to-day. It was my textbook for many a year. But the same Gardener's Assistant to-day is a new book, increased immensely in size, modernized in every particular, and that, too, by the Curator of the Royal Botanical Gardens at Kew, London, a man who has the best opportunities of any man on earth for knowing what is newest among plants and most modern in gardening.

CHRYSANTHEMUMS WITH FOLIAGE TO THE GROUND.—It has always been the rule with plants grown at the Phipps Conservatories that if a plant has not got perfect foliage from the ground up, no matter how promising its top may be, its proper place is the rot pile. All of their plants are grown in pots. And it would do your heart good to see how John Jones will smile when his neighbor rivals come around and tell it is flowers they are after and not foliage. But John excels with both. Somewhat late propagation, indoor cultivation throughout, never allowing a plant to become pot-bound until it gets into its flowering pot, rich select soil, hard potting, careful watering, cool treatment, free ventilation, sheep manure and an avoidance of chemicals, frequent fumigating, and timely staking, are his chief points. But John is very generous in allowing to others every credit that's due them. He went up to Philadelphia and New York at the time of their chrysanthemum shows, and on his return he told me: "Oh, Lord, man, you ought to have seen their flowers; some of them were the grandest blooms I ever saw. There was nothing anywhere in Pittsburg to touch them. I tell

you, it takes the conceit out of a fellow when he goes around and sees what other folks are doing. But their pot-plants couldn't touch ours for bottom foliage." And still one of John's blooms this year, by actual measurement at the last Florists' Club meeting, was 14 inches in diameter!

PETER BISSET, WASHINGTON.—Don't get mad about your climate, Peter; you can't help that. Unless something unforeseen happens, hot or no hot, you'll have one of the biggest delegations of florists and gardeners from Pittsburg to see you next August that have ever visited Twin Oaks. I have been telling them about your magnificent woods and your beautiful and extravagant pond lilies, and the fine varieties of aquatics that you have raised, and how you grow the Victorias out-of-doors.

The Tales of a Traveler.

BY WALLACE R. PIERSON.

Once upon a time there lived a certain Yankee, back in New England, and it came to pass that he had a chance to make a trip of a few days' duration. To him this meant a great deal. He had no idea of the extent of his native land and the trip was a revelation to him. On his return he was asked, "Where did you go, Bill?" and he replied: "All over creation, and some parts of New York State."

We of the East are very apt to think that all there is to know can be learned within the limits of our Eastern States, but the florist has also gone westward, and there is much to be learned from our brethren in the West. It has been the good fortune of the writer to take a trip through some of the Western States this Winter, and floriculture as it



NEW SEEDLING ROSE
(Mme. Abel Chateau x Liberty)
Originator Peter Bisset, Washington, D. C.

appears to him in the various places is very interesting and also very instructive. New conditions are met with, and the various changes in climate and soils vary the conditions of growth, and these often prove perplexing problems to the grower from the East, who knows and understands only those conditions which are to be found at lower altitudes.

Joliet, Ill.

On December 17 last the writer had the pleasure of an afternoon with the growers in Joliet. These two prominent carnation firms have been so well written up for the horticultural press that the writer can add very little to what has already been said. Fiancee, at the Chicago Carnation Company's establishment, is without a doubt the center of interest, as the variety has been so widely shown and so thoroughly advertised. To all appearances it is an improved Cressbrook—larger bloom and better plants than Cressbrook ever has produced, but still it resembles the variety very strongly. On the afternoon of my visit a box had been opened which had been packed for nine days, to test the keeping and shipping quality of the blooms, and these flowers, which had been so long in the box, were a notable example of power to withstand the hardship of close confinement, as they were taken from the box in excellent condition. The striking feature of the Chicago Carnation Company's place is the number of cuttings which this concern is handling. Orders for Fiancee have been so large that only a few plants are left to show what the variety can do as a bloomer.

At the J. D. Thompson Carnation Company's establishment Robert Craig is seen, and it gives promise of being a leader among the scarlet carnations. Gib-

son Beauty is a disappointment; and while there certainly could not be a more healthy batch of plants, the ability to throw bloom was lacking, and the withdrawal of this variety is a wise move for those who are most deeply concerned.

Taking these two concerns as a whole, we find good progressive carnation culture, and the neat manner in which the houses are kept is but a testimonial to the axiom, "cleanliness is the basis of good growing."

Denver, Colo.

It is just before Christmas and a busy time for the florists everywhere, and Denver is no exception. The store windows are a mass of color—poinsettias, cyclamens, begonias, and other pot plants. To one who knows the climate of New England it seemed strange to talk Christmas trade to a florist brother with the boys on the street playing marbles on the sidewalk, and the weather as mild as a day in May in the vicinity of New York. No matter how cold the night, it always becomes warm when the sun makes its appearance; and this climate is noted for its abundance of bright, sunny days. The poinsettia especially seems to thrive under these conditions, and it is to be found here as we seldom see it in the East.

THE PARK FLORAL COMPANY.—This concern may, perhaps, be given the first place among the Denver florists. Their establishment has in all nearly thirty-five houses, comprising about 75,000 square feet of glass. About 10,000 roses are planted, embracing the following varieties: Bride, Bridesmaid, American Beauty, Liberty and Mme. Abel Chateau. The climate of Colorado allows the growing with good success of hybrids. These are planted out in good, rich soil and with no protection in Winter except a slight covering of litter. This is removed in the Spring, and the sash are put into place and the plants protected while in bloom. This firm makes a specialty of Begonia Gloire de Lorraine. Tens of thousands are sold from small pots annually. A bench of Adiantum Croweanum is very interesting. In this climate ferns do not thrive, and this new adiantum has shown itself superior to all others. It has been grown here some three years and is by far the most satisfactory of the adiantums. Nephrolepis Piersonii, bostoniensis, and Scottii are also to be found; the last-named is a favorite here.

About 15,000 carnations are benched. White Lawson, Governor Wolcott, Lorna, Mrs. T. W. Lawson, Enchantress and Flamingo being grown. There are also a number of the firm's own seedlings. The amount of pink which the blooms of White Lawson show is very noticeable, and if it shows this amount of pink in the sunshine of Colorado it certainly cannot all be blamed on dark weather in the East.

J. E. Valentine is the owner of this concern and he has an able assistant in Mr. Sked, who is his foreman.

THE COLFAX AVENUE FLORAL COMPANY.—This firm is situated very near the Park Floral Company and has about the same amount of glass. Roses and carnations are here the principal crops; and some 8,000 of the former are benched, while 16,000 will cover the carnations planted. The roses are confined to Bride, Bridesmaid and American Beauty; and the carnations are made up principally of Mrs. T. W. Lawson, Queen Louise, G. H. Crane, Enchantress, Fair Maid and Harlowarden. A very fine stock of bedding plants is carried by this firm, and here, as elsewhere, the flaming poinsettia is in its glory. Mr. Beers, the owner of the concern, reports an exceptionally fine Christmas trade.

N. A. BENSON.—About 35,000 feet of glass in the southern part of the city makes up the place of which N. A. Benson is proprietor; and his friends in the city give him the honor of being the best carnation grower in the vicinity. A well-kept, clean place and good stock are to be seen here—not up to our Eastern standard perhaps in some respects, but very fine, when the adverse conditions are taken into consideration. Three houses of roses, with Bride, Bridesmaid, Liberty, Mme. Abel Chateau, and American Beauty occupying the space, are seen. Four houses are devoted to carnations; Mrs. T. W. Lawson, Enchantress, Harlowarden, Flamingo, Lorna, The Marquis, Mrs. Potter Palmer, Adonis, Prosperity and Norway making up the list of varieties. The two last named are at present looking the best, but a white Enchantress, which is being worked for stock, and White Lawson, will be counted on for white the coming season.

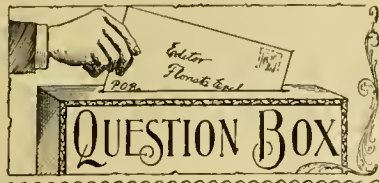
Comments.

The roses in Denver are hardly up to the roses of the East and prove the hardest to grow here of all the greenhouse stock. The soil of Colorado does not suit the rose, but here potted plants are done exceedingly well. The American Beauty is nearer to the standard than the tea roses; and where the soil can be secured which Beauty demands, it is well grown.

It was not possible for me to see all the florists of this city; but there may be something in these notes of interest to those whose good fortune it has not been to pay this section a visit.

A New Seedling Rose.

The illustration herewith represents a new rose raised by Peter Bisset, Twin Oaks, Washington, D. C., who describes the variety as being the result of a cross between Mme. Abel Chateau and Liberty. The color is a pink deeper than that of Bridesmaid, with the reverse of the petals several shades deeper than the face. The growth is very free, and healthy; flowering freely, and on good stems. The blooms, when fully open, resemble those of La France somewhat.



FERN FOR NAME—O. J. R.—The fern sent for name is *Nephrolepis davalloides*.

Paris Green for Thrips Outdoors.

(160) We note in *The Florists' Exchange* in W. R. Pierson's notes on carnations that he advises the use of Paris green outside for thrips. Will you kindly advise us as to the manner of using it, also the quantity required and number of times or intervals between time necessary to apply it? R. & B.

—In answer to the foregoing inquiry I would say that there is very little use in using Paris green during wet weather. Thrips thrive when the weather is warm and dry, and are to be found in quantity when the grass begins to head up and set seed. At this time of the year and during July and August especially, we give the spaces between the houses a light dusting of Paris green, using the same machine employed by farmers to dust the poison on potato vines to kill the potato bug. A very light dusting is all that is needed, but the exact amount of the material used will vary with the width of the space between the different houses. As a rule, one pound of Paris green will go the both sides of a 300-foot house. In applying this poison, make sure that it leaves the machine as a very fine dust, and that it settles evenly over the grass. We try to apply this in the early morning when there is sufficient dew on the grass to hold the Paris green. This applied after a rain will be effective until the next rain as a general rule, and it is unnecessary to apply the insecticide during a spell of rainy weather. Thrips do not thrive when there is an abundance of moisture. These insects get their food from the outer portion of the leaves, or petals of the blooms, as the case may be, and this makes a dusting of the grass on which they are living very effective. Keeping down the grass and preventing it from going to seed is also beneficial, and if this is done and the spaces dusted with Paris green the danger of thrips from this source is greatly lessened. W. R. PIERSON.

Plants and Flowers for Easter.

(161) I have just completed a greenhouse and wish to grow some stock for Easter. Kindly tell me through the columns of your paper some good flowers to grow, both for pot plants and cut flowers. Please classify those which may yet be started from seed, and state when is the proper time to sow seed of same. SUBSCRIBER.

—There would not be much demand at Easter time for such stock as could be grown from seed started at this date, and we would suggest the purchasing of young plants of such kinds as heliotrope, fuchsias, geraniums and pelargoniums of the fancy kinds. These could be had quite reasonable in price at this time, and, if grown on carefully, would make you a fair profit. For bedding plants, to be sold after Easter, it would be time enough to sow in January, or even later, for a good many kinds. By watching the reading and advertising columns of *The Florists' Exchange*, full information regarding the sowing and the raising of the different flowering plants will be ascertained.

Soft Coal Soot for Carnations.

(162) Can I use soft coal soot in the cultivation of carnations to advantage; if so, what is the best method of application and to what extent, etc.? J. W. P.

—Soft coal soot is a good fertilizer and can be used to advantage on carnations, adding color to both foliage and flowers, besides helping to keep the soil sweet and free from slugs. To apply the soot, give just a thin dusting over the surface, repeating as often as it is seen the soot has been washed into the soil.

The Rathbun Blackberry.

(1) Can you inform us who introduced the Rathbun blackberry? A SUBSCRIBER.

—Fruit authorities say this blackberry was sent out by A. F. Rathbun, Smith's Mills, N. Y. J. J. M.

Sedum for Bedding Purposes, Etc.

(2) Please let me know which variety of sedum is best to use for carpet bedding? When can I sow the seed to have nice plants by June 1? Also when can I sow *Stellaria graminea aurea* and *Stevia variegata*?

—The sedums most suitable for carpet bedding are *S. acre*, *S. acre aureum*, *S. corsicanum*, and *S. glaucum*. If seeds can be obtained they should be sown as early as possible. The general mode of propagation is by division, either in early Spring or in the Autumn.

The *Stellaria graminea aurea* should be sown the first week in March; and the *stevia* at the same time.

Moving Trees in Winter.

(3) We want to move about ten miles. Would you advise to take some apple, magnolia and chestnut trees, with frost ball, moving them during frosty weather, and plant them again? Also, which is the proper time to spray trees for scale? C. H.

—It will be perfectly safe to move the trees while the ball of roots is frozen; but the roots must be well protected from frost while out of the ground. The best time to spray the trees is in the early Spring before the leaves burst out; at that time every part of the trunk and branches can be covered much better than after the trees are in full leaf.

To Keep Pipes from Freezing.

(4) Kindly advise me the best way to keep a 2-inch pipe, 30 feet long, from freezing. The pipe runs from the ground to a tank, with no building around it. SUBSCRIBER.

—The pipe should first be wrapped with several thicknesses of felt building paper and then inclosed in a box 1 foot square inside. This should have double wooden walls, with two or three thicknesses of building paper between, and the box should then be packed with sawdust or some other non-conductor of heat. In extremely cold weather a slight movement of the water in the pipe should be provided for. Of course, this is with the understanding that the tank is so located that steam or hot water heat cannot be provided. L. R. TAFT.

Regarding Pressure.

(5) I desire information regarding pressure on a hot-water coil boiler. I have a city pressure of 65 lbs.; if I turn the city pressure of 65 lbs. on my boiler, run the gauge to 65 lbs., then turn the city pressure off, will I still have the 65 lbs. pressure, or will I have to keep the city pressure on my boiler to maintain the 65 lbs. pressure? Also, if my boiler makes one pound pressure above the city pressure, will it back the city pressure into the city main? Also, is that a high pressure for a coil boiler made from 2-inch pipe? Is 65 lbs. water pressure as great as 65 lbs. steam pressure? F. H. S.

—While the pressure would be the same after as before the city water was shut off, it would vary with the temperature of the water in the pipes, increasing as the temperature rises and the water expands, and becoming less as it cools. However, if the system is to be worked under pressure from the city mains, they should be left with the valve open. The connection however, should be such that the water could not run out from the system in case of a break in the pipes, and there should be a safety valve to prevent an explosion in case the main is shut off. If the pressure in the system becomes higher than that of the water pressure, a small amount of water would be forced out of the heating pipes. A good boiler would be safe with 65 pounds pressure. L. R. TAFT.

A Carnation Cut.

(6) I have a carnation house, 60 feet deep, 5 feet wide; side bench, 60x2 feet. The varieties are: Prosperity, Enchantress Governor Roosevelt, Mrs. Lawson and others. I have cut from October 1 to December 31 5,726 blooms. I would like to know if any one has produced as many flowers from such a small space. I had some with disease, but have found a remedy that will destroy all germs on carnations. It all lies in the soil. I am now trying an experiment on violets which I think

will also be a success and will write if it should prove so.

J. R. BURFEIND.

—The cut of carnations is certainly a heavy one from such a limited amount of bench space. We would like to hear more about the cure for disease in carnations.

Sweet Peas Not Blooming.

(7) What is the matter that Blanche Ferry sweet peas do not bloom? They were planted in about first of September; the vines are now 3 x 4 feet high, but give no flowers. Mount Blanc, planted at the same time, has been flowering for two or three weeks. K. BROS.

—The sweet peas have made a good growth and, perhaps, if they are kept a little on the dry side for a time, they will commence to flower. It often happens, through too heavy feeding, that the peas will make excessive growth in vines and produce but few flowers until the feeding has been stopped.

Cold Storage Lily of the Valley Pips.

(8) Kindly inform me as to the best treatment to give to cold storage lily of the valley pips that have just finished blossoming? How soon will they bear flowers again? F. K. J.

—Lily of the valley pips that have been kept in cold storage for some time, and then forced into flower are not worth much for future blooming. The best thing to do with them is to throw them away and purchase new ones for next season.

Hollyhocks.

(9) Can I grow hollyhocks in pots and bloom them for Spring trade? If so, when shall I sow the seed? F. H. S.

—We do not believe that hollyhocks could be successfully had in bloom for Spring trade. Their time of flowering is in late Summer, and they do not do their best until the second year from sowing the seed.

Candytuft, Pansies, for Decoration Day.

(10) I would like to know what time candytuft should be sown so as to have plants in bloom by Decoration Day? Also, if pansy seed were sown now, would the plants bloom by Decoration Day? S. J. C.

—Pansies and candytuft, if sown at this time, will be in flower nicely for Memorial Day.

Rose Crimson Rambler for Easter.

(11) When should Crimson Rambler roses for Easter blooming be started? VIRIDIS.

—Easter comes quite late this year—April 23; and the roses need not be started until the first of February.

Violet Scald.

(12) I am sending under separate cover some leaves from my violet house to see if you can kindly tell me the cause of the edges being affected in the way the sample shows. It spreads quite rapidly through the house, although I try to keep the affected leaves picked off. The plants have made a luxuriant growth and seem to be very healthy. A. J. D.

—Professor Galloway, in his book on Violet Culture, calls this disease scald, or edge burn, and says: "The trouble may be brought on by a number of causes. It is often the result of using strong liquid manure, either organic or in the form of chemical fertilizers. Such liquids, when applied to the soil and roots, seem to temporarily check the latter to such an extent that they cannot take up the water or food, and when the sun is warm the young leaves have not sufficient moisture to serve for growth. The disease may also be brought about by allowing the soil to get too cold. By attending to the conditions mentioned, looking carefully after the watering, and seeing that the soil is not too heavy, little trouble need be feared from this disease."

Lime Refuse from Acetylene Gas Plant as Fertilizer.

(13) Please tell me if the lime refuse from an acetylene gas plant is of any value to land? E. H.

—It is claimed to be an excellent fertilizer. Write to the Acetylene Journal of Chicago for full information on this subject, or to your State Experiment Station.

Heating Problems.

(14) I have two greenhouses which I piped as follows for steam: I have a 12 horse-power boiler; from it the 2-inch flow rises 10 feet above the bottom of the boiler and falls 1 inch in 15 feet to the other end of the house, where it falls 3 feet 4 inches into the coils which are on each wall plate, with five 1 1/4-inch pipe in each, and back falling 1 inch in 15 feet, where four coils are run into one 1 1/2-inch pipe and into the boiler at the bottom. Now, I wish to use hot water but the water does not circulate more than half-way back in the coils. What can I do to help it? I have an expansion tank above the highest point and an inch pipe out through. Would a 1 1/2-inch gate valve on the return, close to the boiler, help it? The houses are 60 feet long, 16 feet wide (two), open in center. C. E. S.

—From the description given it would appear that there is one 2-inch flow pipe and one 1 1/4-inch returns in each of the 60x16-foot houses. If to be used for hot water there should certainly be an expansion tank connected with the highest point of the system, with air valves, whenever necessary, for letting out the air. While it is not clear, it is possible that the trouble referred to is that there is no way for the escape of the air from the system except through the air cocks in the system used for steam. This would account for the trouble as described. With this difficulty corrected, it would not be possible to obtain satisfactory results with the system as now arranged. In the first place, there should be about 420 square feet of radiation in a 60x16-foot house to heat it to 60 degrees in zero weather, and such a system should be connected with the boiler through two 2-inch flows or one 2 1/2-inch, with the returns of the same size. From the description given it would appear that there is but one 2-inch flow in each house and that a 1 1/2-inch return serves for both houses. In mild weather it might be possible to get fairly satisfactory results with the one flow in each house, but there should also be a return of the same size; or a 2 1/2-inch return would answer as a common return for the two houses. With two 2-inch flows in each house, the ten 1 1/4-inch returns on the coils should be sufficient to maintain a temperature of 60 degrees in zero weather. L. R. TAFT.

Reply to Chas. H. Zundel, who submits a plan of houses.—From the plan, it is evident that the old house was heated by two 2-inch flows running 115 feet to the farther end of the house, where they entered a header, from which three returns led back to the boiler. From the flow end of the header connection is made with the coil in the new house, from which the return connects with the return end of the header. It is not at all strange that no circulation in the new house can be secured with this arrangement unless, as is hardly probable, the coil is several feet above the header. The best way out of the difficulty would be to place in the new house a coil similar in construction to that in the old house. One of the flow pipes now in the old house could be disconnected from the coil and used to supply the coil in the new house. In the same way one of the present return pipes could be used to serve as a return from the new house. L. R. TAFT.

Please let me know what size radiator for hot water or steam I will require in a room 15 by 15 feet; there are three windows, 2 feet 6 inches by 5 feet, exposed to the north and west. F. C. S.

—If hot water is to be used for heating from 60 to 65 feet of radiation, according to the height of the room, will be required. For steam radiation, the amount should be from 35 to 40 square feet. L. R. TAFT.

Please advise as to the amount of radiation, in steam, will be supplied to put on the following sizes of flow pipe: 150 feet long, 4 inches, 3 inches, 2 1/2 inches and 2 inches, to work under low pressure, gravity system. S. BROS.

—A good deal will depend upon the size of the pipes used in the coils, as a flow pipe of a given size will supply a larger number of feet of radiation

when 1-inch pipe is used for the coils than of 1½-inch pipe. In a general way it can be said that a 4-inch main, using low pressure, will supply 4,000 to 6,000 feet; a 3-inch will suffice for 2,000 to 3,000; a 2½-inch, from 1,000 to 1,500, and a 2-inch main, from 600 to 800 square feet of radiation. By increasing the pressure a considerable increase in the amount of radiation can be secured, especially in the case of the larger sizes.

I built three new greenhouses last season and put in a pipe boiler which had twenty-four rows of 1-inch one way by 18-inch the other; 4-inch pipe is connected to the boiler, both flow and return, and sixteen rows of 1½-inch pipe in two outside houses with twelve pipes in the middle one. Will this be enough to give me 60 degrees in very hard weather? Also, I have a fourth house coming right across the ends of the third. Cannot the return be brought out of each outside house, around the north and east ends, and into the boiler again to give me 40 degrees? The three houses are 50 feet; the end one 53 feet. W. G. W.

—The correspondent does not mention the length of the coils in the boiler and no idea of its capacity can be obtained from the description given. However, in a general way, it can be said that coil boilers are not especially desirable, except from the standpoint of a low first cost, and that if they are to be used, it will be better to have the coils constructed of pipe larger than 1 inch. It will also be impossible to give a definite answer to the remaining portion of the letter, as the width of the houses is not stated. It can be said, however, that at most, with a boiler of ample size and properly constructed, the number of pipes given would not maintain a temperature of 60 degrees in zero weather if the outside houses are more than 15 and the middle one more than 12 or 13 feet in width. If the pipes in the coils were 2-inch, it would be feasible to carry them around through the end house and secure a considerable heat from them, but anything of the kind would have a tendency to check the circulation in the small pipes, which at best cannot be any too good. While small pipes may be used in closed systems, or when the houses are short and the boiler is well below the level of the returns, it will generally be better not to use pipe smaller than 1½-inch for the returns, and 2-inch will be better in houses more than 50 feet in length.

L. R. TAFT.

CANADIAN NEWS

MONTREAL.—Business has been very good since Christmas. The weather moderated considerably on New Year's eve, so there were no frozen plants to replace on January 3. New Year's trade was very good, a number of orders for funeral designs helping to swell the day's receipts. Cut flowers are plentiful, but are wholesaled at high prices, thus checking the demand somewhat. Violets were slow sale. Daffodils have made their appearance, but are short-stemmed.

The Florists' Club will hold a carnation show during the latter part of February. W. C. H.

TORONTO.—Business since Christmas has been rather slow; the wholesale prices of stock kept up, but the first part of the week being somewhat cold and dull and everything cut so close for Christmas, was the cause of this, not the demand; in fact, on Saturday there was more than enough in hand to supply the call there was at the holiday prices, and, in many cases, values had to come down. Violets are coming in more plentifully now and they are generally of good quality. Carnations, also, are very good and are also arriving freely. There appears to be a fair supply of good American Beauty offered.

Edward Hoskins and James Rossitter have both given up their stands on St. Lawrence Flower Market, Mr. Hoskins through ill-health. Mr. Rossitter can make as good prices for his stock at wholesale as on the market without so much loss of time.

Frank Duffort has his wife and four of his family down with diphtheria, some of them in a serious condition. Both of his sons are down, which leaves him very short-handed. We hope they may soon recover.

THOS. MANTON.

OTTAWA. — Christmas weather showed 13 below zero; New Year's, 40 to 50 above. The thaw came in very handy, as, owing to the snow, sleet and hard freezing, the cooler houses were covered with a sheet of ice which was hard to remove; but the past forty-eight hours has removed it.

C. Scrim had a fine bed of Mrs. T. W. Lawson carnation—1,200 planted in all Summer, and they have been most prolific since Fall. On December 1 they looked so full of bud and flower, I decided to see how many were cut during the month. A faithful tally showed 4,087—a nice lot, but quite deceiving, only 3½ to a plant, which seems a small score by the plant. But 1,400 were cut Christmas Eve and morn, which filled quite a gap. E.

THE WEEK'S WORK.

Timme's Timely Teachings.

Propagating.

From now on the propagation of nearly all the leading kinds of greenhouse plants from seeds and by cuttings, will demand the principal portion of our time, forethought and attention. To obviate a too frequent repetition, when dealing separately with the various kinds of plants, a brief description of ways and methods, as here given, will serve the purpose.

In buying seeds, get the fresh article, and select the best strain obtainable. The difference in price is made up tenfold by the better product. This is true, in the present status of trade, more than ever before. In taking cuttings, select the healthiest and strongest, and in potting them up after they are rooted, reject every cripple or diseased one. If done at that juncture, instead of later, much labor, time and room are saved. Bottom heat accelerates propagation, and this is the time of the year when it can be provided in a measure regular and reliable. This is also the time when atmospheric conditions under glass are easiest controlled. Good cuttings will root in sand of any color or texture, if it is clean; while cuttings, too hard, too sappy or otherwise unfit to be taken, will not properly do so in the finest silver sand, washed, sterilized or doctored. A layer of three inches on a tile bottom is sufficient in the bench for cuttings, unless too great a bottom heat prevails, when a heavier layer will have to be employed. Firm the sand solid before the cuttings are inserted; these also should stand firm and so, that some effort is required to pull them.

One inch of sand on the tiles, evenly spread, forms a bed on which the seed boxes are placed. These should be of one size and so made as to width or length that they just fit into the bench, and when filled are not too heavy to handle for one person. A clear inside depth of two inches, or a little more, is about right; while plants to be transferred or pricked off from these flats into others require a depth of three or four inches.

Old, stale soil out of benches, in which stock has been growing, should not be used for filling seed pans or boxes; let it be a mixture of good, fresh, sandy loam or porous compost, sifted and reasonably moist. In sowing see to it that the seeds are not over-thickly scattered on the box, but evenly distributed over the surface. Press them into the soil with a heavy but smooth piece of plank or board, and now carefully, before covering the seeds, water. Large seeds may now be covered with a thin layer of loose soil, leaf-mold or finely broken up moss; however, the seeds of most kinds of greenhouse and bedding plants require no covering—none but boards or paper, laid over the boxes—until growth shows, when full light is admitted. Some practice and the exercise of care are required in providing the necessary degree of moisture for cuttings in the sand and seedlings in the boxes.

Not enough or too much is equally fatal to feeble, new-born plant life. Here experience and good judgment are of value. Thousands of seedlings may damp off in one night for the want of pure air, or on account of being over-watered, or because the soil is too highly fertilized or soured. In such a case, a speedy transplanting into other boxes or into small pots will save them, if done in time, though, in most instances, the trouble is discovered too late; and the little plants, so treated, will continue to perish right along, although they may brighten up and grow on for a time. In the case of some kinds of the more common bedding plants this timely shift is a sure cure, while with others it is a total loss of labor and plants. Marguerite carnations, Begonia Vernon, Two-week stocks, and a few

other things will start to grow at once and become fine plants, if a shift is given in time. On the other hand, if cinerarias, snapdragons, salvias and especially asters once begin to show signs of damping off in the seed boxes, it is not worth while making any effort to save them, or to cut down the death-rate by a transfer into other boxes or pots. Such plants in nearly all cases are doomed, and the work of sowing the seeds may as well be done over again. The main cause of all this trouble is traceable to fungoid impurities in the soil used, and, therefore, a thorough-going propagator does not think of sowing seeds into a soil that has been lying in the greenhouse or shed for any length of time, but draws his supply directly from soil in the open air. If this is brought in a day or two before it is to be used, it will be in good condition.

Seedlings, when first potted off, should be planted rather deep; put to their first leaves is none too deep for most of them. All newly potted young stock needs a protection against bright sunshine for a day or two. Nothing so far, in the line of shading material, has proved handier or more convenient than the light, movable lath-frames, on which muslin is nailed. They are quickly placed and removed, and from early in the afternoon until the sun gets high next morning, the plants receive the full light, as also on dark days. All this great benefit to young plants would be cut off by employing lime-wash or a permanent paint shading, which here is a detriment to the welfare of the stock, while, as a shading for large areas of flowering crops during Summer, it is the proper thing.

Gloxinias.

As soon as the fresh seeds of gloxinia can be obtained, they should be sown. I prefer to do this in the first weeks of the new year rather than much later. Instead of wooden flats, earthenware seed pans should be used for gloxinias. Fill these nearly half full with the turf-like pieces of semi-decayed, well-liberated sod soil, and on this spread the final layer of finely broken up leaf-mold about a year old, thoroughly intermixed with sand. On this the seeds are sown. A temperature of 65 degrees with bottom heat somewhat higher will result in a stand of fine little plantlets in two or three weeks. Now more light and air is given to wean them to conditions more apt to promote health and vigor. Still, the temperature should not be lowered much, nor should the young plants be deprived of bottom heat, if available, until the plants are of good size and benefited by the warm days of approaching Summer. In repotting, always use a light, porous and sandy soil, and shade on sunny days. Heat and a moist atmosphere are essentials in gloxinia culture.

One-year-old bulbs of gloxinias may be wintered over, if kept in their pots, in a warm and dry place till February, then taken out and potted into new earth. Give them a warm stand, but no water until the new growth begins to push, and then sparingly, for this is the critical point in the starting of old gloxinia bulbs, when lurking decay is ever ready to take advantage of proper conditions for speedy attack, brought about by ill treatment. If a good portion of drainage has been provided in the pots, and when finally the plants attain size and vigor, the danger from over-watering is not great, and these plants will now grow into good-sized specimens and bloom a trifle earlier than the seedling gloxinias, but are in no other respect superior to these. I prefer to grow them from seeds every year. A plant, exceptionally fine, discovered in a batch of flowering gloxinias, may easily be multiplied by leaf propagation. Little bulbets soon appear on a layer of warm sand, which, under proper treatment, grow rapidly into plants of good size, often blooming the same season.

Floriculture in bygone years made good use of this beautiful genus, of which gloxinia seems the only one nowadays worth considering, while the once so highly prized sinningias, gesnerias and achimenes have had their day. Their culture is, in the main, the same as that given for gloxinias, and should be encouraged, for, like gloxinias, they help to make a greenhouse most attractive and are by no means wholly unprofitable to grow.

Primula Obconica.

I am aware that many growers do not think of sowing *Primula obconica* before March or April, but I have found that, by sowing the seeds of this most useful plant in January, I obtain a set of plants easier to manage during Summer and early Fall, and I believe in every way superior to the later started and less forward portion of the annual output. The seeds should be sown on a sandy, well-decomposed sod soil, or meadow-mold, and started in a hothouse temperature where they will quickly germinate. After the young plants have been once pricked off and again have attained good size, they are potted up and later on, planted at reasonable distances into a moderately warm frame outdoors. As Summer advances, plenty of air is given, and, although they require a shading on bright days all through the Summer, this should not be too dense, and should be so arranged that it can be removed on cloudy days and at night. Watering must

not be neglected, but should be given in moderation. Any straggling buds, prematurely formed, are cut out. In August the plants are potted up, but remain outdoors until real cold weather sets in, when they are removed to the house. Frost must not touch them, but a pretty cool stand suits them. A few weeks later, a course of gentle forcing will bring them out.

This *primula* possesses all the requisites which go to make an ideal market plant—not over-difficult to grow, demanding, owing to its fine habit of growth, but a moderate space on our benches, strikingly beautiful in form and bloom, within reach as to price of the great majority of buyers, and satisfactory after it is bought.

Last year some cases, none serious, of poisoning by contact with *Primula obconica* were reported. It cannot be denied that the plant is possessed of properties which make a careful handling of the branches and foliage, especially when moist, advisable. The upper surface of tender-skinned hands is most easily affected, but the irritation is soon subdued by an application of ordinary soap, or linseed oil. It is not nearly as bad or painful as a poison oak or sumach poisoning, as has been stated, and it is unlikely that this somewhat magnified attribute of *Primula obconica* will ever be able to appreciably diminish the great popularity the plant so rapidly gained and justly merits.

As the presence of harmful poisonous matter in many plants, largely cultivated, becomes better known, a less frequent indulgence in the pernicious and vulgar habit of wearing flowers in the mouth and chewing their stems will be the result; and that is something to be thankful for.

Sweet Peas.

A small bench of sweet peas, or a few vines on post, back wall or pillar, lend a cheerful look to any place where home trade means everything, and the growing of nearly everything makes home trade. Here a few hundred vines of sweet peas add considerably to a much-needed variety of material for cutting, as also to the attractiveness of the place, if neatly trained up and kept clean of insects and dying foliage. On such a place sowings should be made repeatedly so as to keep up a succession of fresh vines and long-stemmed blooms.

Quite another thing, and to be considered from a different viewpoint, is the raising of sweet peas for the wholesale market. If well handled, this phase of outflowing growing swells the receipts of an establishment considerably. It pays, if sufficient room suitable for this culture can be spared; otherwise, it does not. "Go in deep or not at all" is a good advice in this case, and is not likely to fall into discredit, if due consideration is given quality as well as quantity. I have found that a continuous crop of good flowers, picked and marketed from early Spring until the outside grown article comes in, pays best. To this end the seeds should be put in now, and not later than the middle of February.

There was a time when carnations, brought in from the field in September, furnished an immense crop of blooms for the holidays, and were then thrown out, to invariably make room for sweet peas, and these in turn for potted stock or early flowering chrysanthemums later on. This plan worked admirably, at least at that time, and not the least profitable crop in the chain of succession was the sweet peas. Now different methods prevail, and sweet peas are made to succeed chrysanthemums directly, and these are gone. In so doing the same soil may be utilized just as it is for the peas, which therein will do very well if liquid stimulants are not withheld later on, after the buds appear.

Cannas.

After having placed the large clumps of canna roots under a bench last Fall, we turn our backs, satisfied that with cannas at least we are plentifully supplied for the coming Spring. But sometimes it turns out quite differently. Instead of plump, bright roots we find a mass of worthless, struggling plant life, or, perhaps, heaps of mouldy decay. Since canna roots are always good property in the Spring and easily turned into cash, it pays to examine them occasionally during times of hard firing, or spells of zero weather. Sometimes a timely removal to more congenial quarters, or merely from the bare ground on to boards, or a covering with paper as a protection against drip, too great a heat from nearby pipes or the possible inroads of frost, will save them.

However, cannas are easily grown from seeds. If sown now, a fine stand of good four-inch plants may be secured for Spring trade, and many of them in bloom at that. If the seed boxes are kept moist, and in a pretty warm place, the hard-shelled seeds will break willingly and send up the little plants in a short time. Some of them may hang fire, but the majority come or two and then a careful peeling helps to hasten them. A frequent shift into pots a size larger, plenty of heat and moisture, will speed them along nicely. FRED. W. TIMME.

Review of the Market

NEW YORK.—Stock was not over-plentiful and all lines cleared out fairly well. Prices were somewhat lower than those obtained at Christmas, as the demand was not brisk enough to warrant holding out for those figures. Violets were probably cut more than any other flowers, as these alone showed a marked increase in the supply.

Since Monday business has fallen away considerably. The severe blizzard that struck the city on Tuesday evening, lasting over Wednesday, had the effect of curtailing what retail trade there was, and the end of the week found the market in anything but a satisfactory condition. Many consignments were delayed in transit on Wednesday, owing to the railroads in places being snow-bound. Particularly was this the case with the Long Island shippers. Boxes that should have arrived in the early morning did not reach their destinations until well into the afternoon, all of which helped to put the market into quite a congested condition on Thursday, when that day's consignments had arrived. Carnations are particularly plentiful, considering what little demand there is, and prices have gone down all along the line. Roses not being so very abundant, are clearing out better than carnations, though the prices have been reduced since Sunday. Violets have experienced the severest cut of all, and flowers one day old are freely offered at three bunches for a dollar. Lilies also have taken a great drop; while orchids and lily of the valley remain about the same as last recorded. White and red single tulips have appeared, the former being offered at \$2 per 100 and the red ones at \$3. There does not seem to be any great call for them as yet, however. Paper narcissus and Roman hyacinths are in heavy supply, with only a slow demand for such white material. Considering the unpleasant weather that has prevailed during the week, we are not surprised at the sudden drop in values of some of the staple flowers. Supplies are not over-abundant, however, and should pleasant weather come, we shall no doubt see business quickly take a turn for the better.

BOSTON.—Business has been fairly brisk the past week, the demand for nearly all kinds of cut flowers being equal to the supply. In roses American Beauty are inclined to be scarce, although the call is not nearly equal to what it was three weeks ago. They maintain equally as good prices as they did a week ago. Queen of Edgely and other fancy varieties are not appearing in such quantities as they have been. Bride and Bridesmaid are in abundance, but prices have kept up fairly well, the best grades of these bringing \$8 and \$10. Carnations are plentiful and first-class blooms, too; never were better. Enchantress seen than those that are in the market these days. All colored varieties sell readily, but white sorts are still druggery. Violets are again plentiful; the last few bright days having brought them into crop and prices have accordingly fallen off from those a week ago. Lily of the valley continues without much change, the supply being sufficient; prices have not varied. Lilies are not appearing in great quantities, and no change has been made in values. Bulbous stock is coming in more plentifully; in fact, too much so, and the demand is so small that the market is overstocked. J. W. D.

ST. LOUIS.—Our florists have enjoyed an era of prosperity, and a bright future is predicted for the new year. Business the past week was a little quiet, and New Year's Day occasioned but little increase for wholesaler or retailer; but from the reports of the uptown retailers a very good day's trade was experienced. The market is fairly well supplied with stock. Carnations are moving better than expected; values have gone down on all grades, and eight-cent stock of the past week is now selling at 6c, including Enchantress, Mrs. T. W. Lawson and Prosperity. Good stock in other varieties bring 4c; common, 3c. White is in great demand.

American Beauty roses are still selling well at \$8 and \$9 per dozen for long, fancy stock, which is in limited supply; the medium grades bring \$3 and \$4, and are the best sellers, clearing up each day. Best grades of Bride and Bridesmaid, also Liberty and Meteor, bring \$8 per 100; other grades from \$4 to \$6 per 100; this stock is quite plentiful at present.

Violets have taken quite a slump. They have increased in quantity this week; prices Tuesday were 75c to \$1 per 100 for best California. Bulbous stock is beginning to be more plentiful, as the demand is not so good, and prices will drop accordingly. Roman hyacinths and Paper White narcissus are now at \$2 to \$3 per 100; lily of the valley, fancy, brings \$4, and from that down to \$2 for poor stock.

Callas and Harris lilies realize \$1.80 per dozen; stevia, fancy, \$1.50 per 100; sweet peas, \$1 and \$2. Smilax and asparagus are good sellers at usual prices. The weather for New Year's Day was warm and bright; to-day (Tuesday) we are having snow. ST. PATRICK.

CHICAGO, ILL.—New Year's business showed no great demand, and at closing time Monday a considerable quantity of stock was still on hand. On the opening of the week's business on Tuesday prices were lower than they had been in some time. The weather was inclement, and not much buying was being done. In American Beauty the supply is equal to all demands at the present time, quality is good, long-stemmed stock selling at from \$5 to \$6 per dozen; medium grades, \$2.50 to \$4 per dozen; shorts and other grades from 50c. to \$2 per dozen. Bride and Bridesmaid are in good supply, and several growers are cutting some extra fancy stock which is selling at \$15 per 100, other grades bringing from \$2 to \$12. Meteor are in good demand, at from \$4 to \$15 per 100. Liberty, in fair supply, is selling at from \$4 to \$25 per 100; Golden Gate at \$15; Perle des Jardins at from \$3 to \$10; Mme. Abel Chateau is in good supply and the demand for the better grades is good; the price is \$12 to \$15, a few extra select going above the latter figures, down to \$4 to \$10 per 100. Sunrise brings \$3 to \$12 per 100.

Carnations are in ample supply and are not moving as freely as could be desired. The quality is good. Whites of extra size are seen in some of the houses; Mrs. Thomas W. Lawson also is at its best, as is Enchantress. The pick of these is sold at from \$5 to \$6 per 100; other grades at from \$2.50 to \$4 per 100; ordinary and inferior stock at \$1.50 to \$2 per 100.

Violets do not seem to be wanted here at any price, buyers not caring to handle them. They realize 50c. to \$1.50 per 100. Lilies are not over plentiful at from \$1.50 to \$2.50 per dozen. Callas are seen in larger quantities than heretofore at \$1.50 to \$2 per dozen. Roman hyacinths and Paper White narcissus are in large supply with light demand, at \$1.50 to \$3 per dozen. Single tulips have begun to appear in several of the houses, bringing from \$2 to \$4 per 100. Daffodils realize \$4, and freesias, \$4 to \$5 per 100. Sweet peas, \$1 to \$1.50; lily of the valley, \$2 to \$4; smilax, \$12 to \$15; asparagus, \$25 to \$50; A. Sprenger, \$25 to \$50 per 100. R. J.

INDIANAPOLIS, IND.—Holiday week did not demand the flowers and decorations for social affairs that it usually does, so that, with the exception of a quantity of funeral work, business was not as brisk as expected. The demand for New Year's is not nearly what it used to be, and might almost be taken off the florists' calendar.

Stock is quite plentiful at present and prices have decreased perceptibly. With the exception of a few roses and carnations, no stock is being shipped in. Thirty-six inch American Beauty roses have decreased in price from \$12 to \$8 per dozen; 24 to 30-inch sell at \$4 to \$5, and 12 to 14-inch at \$1 per dozen. Select Bridesmaid and Bride, stems 18 to 24 inches in length, bring \$8 per 100. No. 1 Bridesmaid and Bride, \$6 per 100. Mme. Abel Chateau, of poor quality, are being received; the best sell at \$10 per 100. Select Liberty may be had at \$12 to \$15 per 100. The customary retail price for good Bridesmaid and Bride is \$2 to \$3 per dozen. Violets are again plentiful, any quantity of Marie Louise can be had at \$150 per 100. While no poinsettias are to be had at wholesale in this market, there are quantities of them disposed of at retail from \$2 to \$6 per dozen. Bulbous stock is very plentiful; Roman hyacinths, Paper White narcissus, jonquils and lily of the valley wholesale at \$3 to \$4 per 100. The few decorations on hand consume the remainder of holiday plants; never before was this line of stock been cleaned up so well.

Tomlinson Hall Market reports a very satisfactory business. I. E.

PITTSBURG, PA.—Trade after Christmas was somewhat slow, but New Year's business was better than it has been in years. Cash sales with a few retailers were almost equal to those of Christmas. At present business is satisfactory; society affairs, receptions, etc., are numerous. Prices remained high until after New Year's, when a slight change was made. Some fine carnations are coming in, being quoted at from 3c. up. Violets are down to \$.50, selling fairly well, excepting singles, which are in little demand. Paper White narcissus and Roman hyacinths are difficult to sell at any price, particularly the latter, which are little wanted. Tulips are scarce yet. The weather is again too wintry for plant sales, being very cold, with snow; not much is selling excepting ferns. E. C. R.

KALAMAZOO, MICH.—New Year's trade continued along the lines of the Christmas business, keeping well up to the average of previous years. Stocks, excepting violets, were sufficient for all demands at prices rather lower than the Christmas ones. The prospects for the immediate future seem to be good, and while the weather keeps moderate, compared with previous years, the plant trade is especially active. As before noted, there are numbers of flowering plants now on the market offered at reasonable prices, and the sales of such plants as cyclamen, primulas and begonias are quite brisk. Palms and ferns move rather slowly. S. B.

Philadelphia.

News Notes.

There has been quite a lull in the flower business the past week. New Year's trade did not figure up so large as in the past two years. Some of the retail stores did very well on Saturday, but, generally, not so much stock was disposed of. We are still hearing a great deal about carnations and violets at Christmas that were not good stock; there have been many complaints, both in wholesale and retail circles, and several cases in which stock was returned. The chief trouble seems to be that many carnations and violets were left on the plants too long, and were really unfit for sale when picked. There has also been much talk about the high prices at Christmas, and this year more than usual from the flower buyers. One very large purchaser of flowers, "one of our richest men in this city," in conversation with the writer this week, stated that he was in Baltimore at Christmas and had to pay \$30 for one dozen American Beauty. This was on the 24th; on the 28th he was in New York and bought a dozen Beauty for \$3.80 at the Flower Market Company's store. Just as good blooms, probably fresher, than those he purchased in Baltimore. Now, it is only natural to infer that this customer would not feel well disposed toward the florists, and such incidents are not good for the business, as both sales quoted are extremes—one too high, the other too low.

Carnations at Florists' Club.

The meeting, on Tuesday last, was a very poor one; no doubt the weather was the chief depressing factor, as a snowstorm, with a 30-mile gale was raging that night. C. W. Ward was present and brought a good exhibit of new carnations; there were fifty blooms of Robert Craig, with flowers 3 to 3½ inches in diameter, and stems 24 to 30 inches in length—a very fine exhibit. There was one vase that attracted considerable attention. It contained white seedlings; some of the flowers were 4 inches in diameter, with perfect stems. One vase contained a pink seedling, of good promise; another vase was filled with a collection of seedlings of various colors. J. L. Dillon, Bloomsburg, Pa., staged a vase of new carnation Crisis, a good commercial variety, and looks like an every-day seller, being a fine scarlet in color, above medium size and with good stem. A discussion took place regarding the keeping qualities of Enchantress carnations; the general opinion seemed to be that, as the flower is of the soft petal kind, it should be grown somewhat cooler, and cut when about half developed.

DAVID RUST.

Chicago.

News Notes.

A meeting of the shareholders of the Flower Growers' Market was held on Tuesday afternoon for the election of officers and a board of directors for the ensuing year and to transact other business. The following officers were elected: President, Emil Buettner; vice-president, Walter Tonner; treasurer, Fred R. Hills; recording secretary, Alex. Henderson; financial secretary and manager, Percy Jones. All interested are highly pleased with the success of the undertaking and look forward to the time when it will be the greatest market of its kind in the country. The ranks are gathering in force from year to year; buyers are becoming more numerous under the efficient management of Percy Jones. They have secured a five years' lease on the present building.

The George Wittbold Company will erect three new greenhouses at Edgebrook the coming Spring, these to be devoted to the raising of cut flowers for their retail stores.

George W. Scott, of E. F. Winterson Company, is again at his duties after a week's siege with the grip.

Louis Coatsworth was visiting in Indiana the past week at New Castle and Richmond. At the E. G. Hill Company's place he inspected the new rose Richmond and thinks it is the coming red rose.

Manny Pieser is absent from his duties, suffering from a severe attack of the grip. C. M. Dickinson is also on the sick list.

T. D. Mosconotes was the recipient of an unexpected present during the holidays, the clerk, who departed with the receipts and keys, returning all by mail.

Robert Symmons, formerly in the employ of the George Wittbold Company, has opened a retail store at Morris, Ill.

The committee in charge of the entertainment of the members of the American Carnation Society report good progress, their plans being nearly completed for the entertainment of the visitors during the last two days of the week.

The next meeting of the Florists' Club occurs January 12. A good attendance is assured, as business of importance will be considered. A long list of new members will be voted upon and a report from all new committees appointed.

The Chicago Record-Herald of December 24 devoted a full page to this city being the largest cut flower market in the world, giving figures to substantiate the statement and the amount of glass in square feet on some of the larger places. The number of tons of coal consumed was said to be from 5,000 to 7,000 annually.

The Chicago Tribune of December 30, in its resume of the year's business in wholesale lines has the following in regard to the cut flower trade: "The wholesale florists of Chicago—eighteen such concerns grouped together in one quarter—sold during the year about \$1,500,000, or about 20 per cent. less than in 1903. Chicago supplies flowers to Pittsburg, Denver, St. Paul and hundreds of smaller cities. New Orleans is the best customer regardless of distance or location, as the 'Sunny South' is not a flower producer commercially. Flower production and flower handling for 1904 exceed all other years except 1903. Prices of flowers for the year have been much lower because the demand has been less. Early in the year the city trade became dull following the Iroquois disaster. Sales—1904, \$1,500,000; 1903, \$1,800,000; decrease, 20 per cent."

The family of Wm. W. Fuller, of 1265 W. Ravenswood Park, were nearly asphyxiated by coal gas from a heating stove, and it was nearly noon before any were fully recovered, Mrs. Fuller suffering most.

Oscar Janitschke lost his wife last week. Mr. Muelder also mourns the loss of his wife, mother-in-law, sister-in-law and niece, their deaths all occurring within two weeks.

Dinstel Bros., of Galewood, have taken space in the Flower Growers' Market, commencing the first of the year.

Fred Sperry, of Vaughan & Sperry, is confined to the house with a severe attack of the grip, which is very prevalent here at the present time.

J. C. Craig reports a brisk demand for funeral work during holiday week.

ROBERT JOHNSTONE.

FIRES.

CLARKSVILLE, TENN.—On December 28, 1904, in one of the Evergreen Lodge Greenhouses; very little damage was done to the buildings, but the flowers were considerably injured by smoke.

CANTON, O.—Fire destroyed plants valued at \$2,000 belonging to Chas. Lindacher Thursday morning, December 29, 1904. Lindacher refused money to a tramp the day previous and thinks the tramp set fire to the greenhouse.

Further Christmas Trade Reports, 1904.

ST. PAUL, MINN.—Holiday business in this city has been fully up to the average of former years. Weather conditions were most favorable to both growers and store men. For Christmas trade the weather was ideal and complaints of frozen stock were few and far between. Greens sold very well, indeed. Holly was all cleaned up and more could have been disposed of. It was in all grades, from extra fancy to very poor; but on account of its scarcity everything went. Holly wreaths were in good demand. The market seemed to be flooded with mistletoe of good quality. There was a good call for wild smilax. This valuable decorative material seems to grow in favor as its artistic possibilities become better known. Red immortelle Christmas bells sold very quickly, but all other kinds went slowly. Even the beautiful new set of chimes met with but slight favor. An innovation in wreaths—statice, cedar and holly combined in one—was received with favor by the best buyers.

Some things in the plant line sold exceedingly well, while others, which heretofore were favorites, went but slowly. Dwarf poinsettias in pans were the general favorites with everyone and sold at well. A great many more would have been disposed of had they been available. Well grown pepper plants also sold very quickly. Anything in the prevailing Christmas color went readily. Simon Mardner azaleas were in good favor and sold very freely, but any other color went slowly. Good red cyclamen were also good sellers. There was an abundance of primroses, P. obconica and other small plants, which went very slowly. Buyers seemed to have plenty of money and wanted good stock. Ribbon was used quite freely in wreaths and on plants, hampers, baskets, etc.

In cut flowers, red was the favorite color and roses the favorite flower, but good carnations were also in demand. American Beauty sold exceedingly well, but violets were not quite as popular as usual. Retail prices ranged as follows: American Beauty, \$8 to \$18 per dozen; Mme. Abel Chateau and Liberty, \$4 to \$5; other roses, \$3; carnations, \$1 to \$2.50; Roman hyacinths and Paper White narcissus, 75c.; lily of the valley, 75c. to \$1; violets, \$4 per 100; poinsettias, 50c. to \$1 each.

All of the stores had special displays, the most notable being those of Swanson Floral Co., Holm & Olson and L. L. May & Co. Shipping trade surpassed all previous records. May & Co. had a very handsome decoration a few days before Christmas, in which wild smilax was used very largely. This firm was also favored with a very large Masonic funeral order, consisting of eighteen large pieces for a prominent member's funeral in Dakota. New Year's trade brought some increase in business, but is becoming perceptibly less each year. American Beauty and violets seem to be the general favorites for the occasion.

In reviewing the holiday trade we cannot refrain from again remarking about the weather. Fewer cloudy days in December were never before noted in this section. The growers nearly all had full crops of roses, carnations and violets. Two days after Christmas the great storm struck us, but it was of short duration and not nearly as severe as in most sections. The weather at this writing is balmy and Springlike.

OMAHA, NEB.—We had a very fine Christmas trade. The weather conditions were ideal, both for the grower and storeman. While no great crop of cut blooms was harvested, there was just enough to

go around and this applies to the small miscellaneous stock as well as to the standard roses and carnations. Plants sold in great numbers; there has been for the last few years a gradual tendency toward the pot plant for Christmas, as against the high-priced cut flowers. We in the West are now experiencing what those in the East experienced a few short years ago. Begonia Gloire de Lorraine, for the first time in Omaha, in quantity, was surely a winner. People went almost wild over the great bunches of bloom on top of a comparatively small pot and the plants were eagerly bought. Holly had a good run, probably because the "stuff" received by the commission houses was so poor, and those who had supplied themselves with the true Delaware holly had a good demand for it at good prices. S. B. Stewart said his trade was better than last year by 30 per cent., indicating a fine business. He did well on Christmas bells, hanging vases and birch bark boxes filled, and sold lots of palms and ferns. Mr. Ross, of Mr. Stewart's force, was kept at home during the Christmas rush by a painful fall at his house. Alfred Donaghue, Jr., reports a very satisfactory gain over the year previous and sold lots of blooming plants and ferns. Violets were an important item here and good prices were obtained. Lewis Henderson reports a 25 per cent. increase over last year. Azaleas were late with Mr. Henderson, as with every other florist in this vicinity. Primroses and Roman hyacinths, made up into pans, sold well, besides ferns. Peterson Bros.' trade showed an increase over last year's; the most notable thing here was the backwardness of their azaleas. J. W. and E. E. Arnold had their usual large Christmas trade, but owing to their small salesroom few plants, comparatively, were disposed of. Alfred Donaghue's specialty was Gloire de Lorraine begonia, of which he had a grand lot, and they went very well indeed. Boston ferns had a big call also. Smaller plants, such as Primula obconica, Primula sinensis, cyclamens and eimerarias sold very well. Hess & Swoboda enjoyed a great rush in plants and cut flowers, their store appearing quite denuded after the busy period was over.

RICHMOND, VA.—Christmas trade compared favorably with the previous year's, and undoubtedly would have been much greater in volume had the weather been more favorable. A rainy Saturday kept many persons indoors, and both stores and markets missed the usual crowds, particularly the latter. The cloudy weather preceding Saturday kept the local cut flowers in short supply and all available stock was sold out on Friday. American Beauty brought \$3 to \$9 per dozen; pink and white roses, \$2 to \$3; carnations, 75c. to \$1.50 (a higher general average than ever recorded here); lily of the valley, \$1 per dozen. Cyclamen, hyacinths, narcissus, palms, ferns and other plants selling from 25 cents to \$1 were popular, although pines, azaleas, etc., from \$1 to \$10 had a good demand. Violets, as usual, were not much in evidence, and the high price asked made many avoid them; they brought \$2 and \$3 Saturday, but those sold for the account of the express company—running into thousands Sunday and Monday after Christmas could be had for much, very much less. On account of the high quotations from northern wholesale houses the orders from here were less than last year; indeed it is doubtful if any shipment of consequence came this way. Greens and wreaths sold as well as usual.

and no good stock was left over. Bells sold at the 5 and 10-cent stores for 10 cents, and interfered some with florists' higher priced goods. I would say, in dollars and cents, the trade is better off than a year ago. M. A. WHITTY.

GRAND RAPIDS.—The clerk of the weather handed out a queer mess for a holiday week, starting in with severe snow flurries, then rain, then a couple of days with the thermometer at 50 to 60 degrees; then, Friday, it turned cold, down as low as zero, warming up somewhat on Saturday and being really a fine Winter's day. Plants had to be carefully wrapped and occasionally a frozen one would be reported. The store windows were well filled with flowering plants and Christmas bells arranged with pretty effects.

While the supply of cut flowers was large, it was inadequate to meet the heavy demands, carnations especially being short. Those wanting red carnations had to be content with a substitute in color. Roses were more plentiful, with red scarce. Violets were plentiful, not as fine as in former seasons, yet they sold freely at 35c. per dozen. Lilies were in evidence, and plenty of Roman hyacinths and Paper White narcissus. In plants, poinsettias led; they ranged in price from 25c. to \$1.50; azaleas, \$1 to \$3; primroses, 25c.; peppers, 25c.

Prices for cut carnations were 75c. to \$1; roses, \$1.50 to \$2; lilies, \$2 to \$3 per dozen, and violets, 35c.

While it is difficult to draw a comparison between the volume of business this and last Christmas on account of the large trade enjoyed by the new stores, yet it is safe to say the increase over last year is easily 10 per cent.

Immense quantities of holly were sold. Mistletoe was fine, but little of it sold. Green wreathing was not as freely used as last year; at the present rate of decrease, it will soon go out of date.

CANANDAIGUA, N. Y.—Christmas trade here was much the same as formerly. With five florists to supply the requirements of about 7,000 people in this place, the individual sales are not large. Palms were not in demand, and but a small business in ferns resulted. Begonias and cyclamen were seen in numbers, but did not go well; neither did primulas. The call was for carnations, violets and roses and the supply was sufficient at no fancy prices. Holly was in quantities and of all grades, several of the grocers offering it at 15c. per pound, not worth the small sum asked, but it depresses the value of real good goods. However, it did not affect the writer's sales, because our orders were all in long before Christmas and filled promptly on time with the best to be had. We made a quantity of boxwood roping, also some wreaths, which were so superior to laurel or ground pine in its construction, durability and general appearance, that our orders are now for so many yards of box roping. If the roping makers would put enough green in to cover wire and string they would advance their own as well as our interests.

UTICA, N. Y.—The holiday trade this year was far ahead of any former years, especially at Christmas. It is difficult to say what sold best. Perhaps carnations took the lead in cut flowers; everything was cleaned up and more could have been sold. They brought from \$1 to \$2 per dozen; reds were almost out of the question. J. C. Spencer had a fine cut of his new red seedling, which was in good crop; it is a fine carnation for the holidays. Violets were short and brought from \$3 to \$4 per 100. Roses were in fair supply and of good quality. Prices were

about the same as last year's. Flowering plants sold well, also pans of mixed plants and azaleas. No novelties of any account were shown; the weather was very cold on Christmas Day and everything required an extra cover. Gloire de Lorraine begonia sold splendidly, as it always does. There have been quite a number of parties and some weddings during the week from Christmas to New Year, which have kept the stock cut short. The trade for New Year's was also better than in former years, but the weather was a great deal warmer.

FREDERICTON, N. B.—Christmas trade in cut flowers was all we could wish for; we had just enough to go around. The weather was extremely cold, 26 degrees below zero Christmas morning, but we made provision for it by wrapping warm, and have heard no complaints as yet. In plants we had a good supply of ericas, azaleas, cyclamen, Primulas, sinensis and obconica, cinerarias, etc. Of palms, Boston and Pierson ferns a limited number were sold, but the supply exceeded the demand, no doubt owing to the cold weather. Lily was in good demand, which seems to be increasing each year. Prices of cut flowers were: American Beauty, \$3 for No. 2; Bride, Eridesmaid and Meteor, \$2 per dozen; carnations, mixed, including Enchantress and Mrs. T. W. Lawson, \$1 per dozen; lily of the valley, 75c.; violets, \$3 per 100; Paper White narcissus, first quality, 75c.; callas, 20c. each.

The business people claim that trade at Christmas was not up to the average. J. B. & S.

TOLEDO, O.—Christmas was very brisk, carnations being one of the principal sellers, but they did not bring as good a price here as East and West, some people nearly fainting at the counter when asked \$1 per dozen for good Mrs. Lawson. Roses, Jonquils and poinsettias were in good demand; not so violets. Ready-made baskets and trimmed, flowering plants were in great favor. One thing in Toledo that handicaps the florist is the street peddler and Cheap John places, where they sell second-hand flowers at an absurdly cheap price; another thing, some of our wholesale growers will sell the retail trade, any one who comes, half a dozen carnations and charge them the same as they do the retail growers. Such methods ought to be abolished. E. S.

SAVANNAH, GA.—The Christmas holidays are over and Fourth of July weather still keeps up; 75 to 80 in the shade. What a glorious sight it was to see open wagon after wagon going out with a display of flowering plants such as azaleas, poinsettias, Gloire de Lorraine, begonia, callas, hyacinth and berried plants with decorative plants of every description and boxes of cut flowers; half a dozen delivery boys on bicycles chasing one after another, loaded with boxes! That's a brief account of our Christmas trade this year, which has beaten the record of any previous one, notwithstanding plenty of flowers were blooming outside. Prices were satisfactory on both cut flowers and plants. O. G.

DALLAS, TEX.—Christmas trade was about 25 per cent. better than last year's and lovely weather made business very brisk, all the florists clearing out their entire stock. Carnations were the leaders in cut flowers; many more could have been sold, while the supply of roses was about the same as at last Christmas. Carnations brought from \$1.50 to \$2; roses, \$2.50 to \$3.50; American Beauty, \$10 to \$15; narcissus, \$1 to \$1.25; hyacinths, \$1; violets, \$1 per 100; poinsettias, \$6; Harris lilies, \$6. Blooming plants were somewhat scarce and sold at very good prices. Only one florist had azaleas, which he disposed of at double the price of last year. Callas in pots sold readily. The supply of holly was very short. F. W. B.

WATERBURY, CONN.—Christmas trade here was the largest we have ever had. There was an increased demand for pot plants. Poinsettias were good sellers; Boston ferns, in varieties, seemed to take the lead. Berried and flowering plants sold well. Begonia Gloire de Lorraine taking the lead. Chinese and other primroses were also popular. Palms sold in limited numbers. Holly and holly wreaths were in strong demand. Cut flowers were in good supply, carnations and violets leading in favor. There was a small demand for bulbous stock. Prices on cut flowers were about as in former years.

A. DALLAS. BAY CITY, MICH.—As a whole, Christmas trade was quite satisfactory, and the total sales were fully up to last year's. We had a good supply of roses, carnations, violets, also cyclamen, begonias, hyacinths and Boston ferns, and all went well. The Boston fern is still in good demand. A large quantity of holly was cleaned up, so that there was not a sprig left. Wishing you success and a prosperous New Year.

BOHRINGER BROS. GENEVA, N. Y.—We had large sales of holly, good holly is in increasing demand every year. Roses, carnations, violets and bulb stock had about the usual call. Plant sales were considerably larger than last year's. Asparagus plumosus leading. Christmas bells were a novelty in Geneva and were greatly admired and quickly cleaned out; the demand will be very heavy another year. SMITH & GANNETT.

"THERE IS ONLY ONE"

The Fumigating Kind Tobacco Powder

What a Few Say, All That Use It Say

<p>PURCELLVILLE, VA. We have given The Fumigating Kind Tobacco Powder a thorough trial on Carnations, and we are well pleased with the result. We are able to keep the plants entirely clean. A. B. DAVIS & SON.</p>	<p>MT. STERLING, KY. I received the sample of your Fumigating Kind Tobacco Powder, but as I did not use but one-half the amount as directed I did not obtain the best results but am satisfied that if used according to direction it will kill everything it is intended for, as at least 90 per cent. of Thrip and Aphis were destroyed this morning. Send me 200 lbs. as quick as you can. EMIL FRIEDRICH.</p>	<p>WEST WHITELAND, P. O. We have tried many fumigants but have found nothing in the market so effectual and easily used as The Fumigating Kind Tobacco Powder. Your prices are reasonable for so good an article. J. LERMAN MAULL, Pres.</p>	<p>WAYNESBORO, PA. We have not only found The Fumigating Kind Tobacco Powder the most valuable greenfly destroyer, but we also use it to kill snails by sprinkling it on the ground. Sure death; they look in the morning like small oysters rolled in cracker dust. H. EICHENBOLZ.</p>
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A FREE trial five-pound bag will cost you nothing more than the express charges on it. The trial bag will prove our assertion that it is the most effective, cleanest and quickest, as well as the cheapest (10 cents per 100-foot house) article to fumigate with. All aphids killed in one night—our booklet tells of it; we mail one on request.

ROOTED CARNATION CUTTINGS

White 100 1000	Pink 100 1000	Crimson 100 1000	Grafted Roses on Strong English Manetti Stock
Lady Bountiful \$4.00	Enchantress \$3.50 \$30.00	Octoroon \$4.00	Bridesmaid, Bride, Golden Gate, Ivory, Chateaub, \$12 per 100; \$100 per 1000.
Vesper 4.00 \$35.00	Lawson 2.00 15.00	Flamingo 5.00 \$40.00	Uncle John, La Detroit, Gen. McArthur, \$18 per 100.
Queen 2.50 20.00	Fair Maid 2.00 15.00	Variegated	
Queen Louise 2.00 15.00	Indianapolis 4.00	Mrs. Patten 2.00 15.00	
Gov. Wolcott 2.00 15.00	Ethel Ward 4.00	Prosperity 2.00 15.00	
Boston Market 2.00 15.00		Galely 2.00 15.00	
White Lawson 6.00 50.00		Stella 2.00 15.00	
	Crimson	Marshall Field 2.00 15.00	
	Harlowarden 2.50 20.00		

Mention the Florists' Exchange when writing.

S. S. PENNOCK
THE Wholesale Florist of Philadelphia

BUSINESS DIFFICULTIES.

YELLOW SPRINGS, O.—Wallace W. Carr, a nurseryman, of this place, filed a petition in bankruptcy December 31, 1904. He acknowledges debts to the amount of \$30,749.64, but declares that his assets consist solely of personal clothing.

Meeting of Craig & Son Creditors.

A meeting of the creditors of Robert Craig & Son will be held at 49th and Market streets, Philadelphia, Pa., Thursday, January 12, at 3 p. m., at which time a proposition for the settlement of the firm's affairs will be made.

Louisville, Ky.

News Items.
Jacob Schulz has a new wagon and horse, which were used the first time during the holiday rush.

C. M. Sundberg, who some years since was in business on West Walnut street, but who for the last few years has not been connected with the local trade, has again opened a retail store at 2411 Maple street. The location is entirely out of the retail district of the city and his venture will be watched with interest.

The sincere sympathy of the craft is extended to Miss Anna Sheedy, of Jacob Schulz's staff, who has lost, by death, an only brother. A. R. B.

ROOTED Carnation Cuttings

All orders filled in rotation.

Mrs. M. A. Patten, Var.	Per 100	\$6.00
White Lawson	6.00	6.00
Flamingo, scarlet	6.00	6.00
Albatross, white	6.00	6.00
Enchantress	3.50	3.50
Queen, white	3.00	3.00
Boston Market, white	3.00	3.00
Queen Louise	2.00	2.00
Lawson	2.00	2.00
J. H. Manley, scarlet	2.00	2.00
Challenger	2.00	2.00

Write for prices on large lots. 5 per cent. discount for cash with order.

Northport, Long Island, N. Y.
JAMES D. COCKCROFT,

Mention the Florists' Exchange when writing.

RED LAWSON

Spout from Mrs. Thos. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it is a way ahead of all the reds.

Price, per 1000 \$75.00; per 100 \$10.00. 250 at 1000 rate.

ROOTED CUTTINGS

ENCHANTRESS	Per 100	Per 1000
HARRY FENN	\$3.00	\$25.00
FAIR MAID	2.00	15.00
QUEEN	2.00	15.00
BOSTON MARKET	2.00	15.00
LAWSON	1.50	12.50
QUEEN LOUISE	1.25	10.00
WHITE LAWSON	5.00	40.00
MRS. ROOSEVELT	1.25	10.00

Quidnick Greenhouses, Anthony P. O., R. I.

J. H. CUSHING, Prop.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS OF RICHMOND GEM, the best scarlet CARNATION

to date, \$10.00 per 100; \$75.00 per 1000.

- Boston Ferns, 2 1/2 in. pots, \$3.00 per 100.
- Flowering Begonias, 2 1/2 in. pots, \$2.50 per 100.
- Heliopsis, 2 1/2 in. pots, \$2.50 per 100.
- Smilax, 2 1/2 in. pots, \$2.00 per 100.
- Salvias, 2 1/2 in. pots, \$2.00 per 100.
- English Ivy, 2 1/2 in. pots, \$2.00 per 100.
- Lemon Verbenas, 2 1/2 in. pots, \$2.50 per 100.
- Feverfew, 2 1/2 in. pots, \$2.50 per 100.
- Asparagus Plumosus Nanus, 2 1/2 in. pots, \$3.00 per 100.
- Asparagus Sprengeri, 2 1/2 in. pots, \$2.50 per 100.
- Variegated Vinca, 2 1/2 in. pots, \$2.50 per 100.
- Geraniums, Happy Thought, Mountain of Snow and Prince Bismark, 2 1/2 in. pots, \$2.50 per 100.
- Shasta Daisies 2 1/2 in. pots, strong plants, from selected blooms, \$3.00 per 100; \$25.00 per 1000.
- Hibiscus, \$2.50 per 100.
- Periwinkles, \$2.50 per 100.

NATIONAL PLANT CO., Dayton, Ohio
Mention the Florists' Exchange when writing.

THE CARDINAL.

DESTINED TO BE THE STANDARD SCARLET CARNATION.
Brings Highest Price of Any Variety on the Chicago Market.



THE CARDINAL as Grown by the Chicago Carnation Co., Photographed December 20, 1904

For an all around fancy and commercial carnation THE CARDINAL cannot be beaten.

You are cordially invited to come and see it growing.

Won first prize for best 100 scarlet, Detroit meeting, March 1904. Also the S. A. F. Medal and A. C. S. Certificate.

January cuttings all sold.
Place your order NOW for February 1st Delivery.

Strong Cuttings well rooted, per 100, \$12.00; per 1000, \$100.00. 250 at 1000 rates

Introducers

S. S. SKIDELSKY, Philadelphia, Pa.
E. G. HILL COMPANY, Richmond, Ind.
CHICAGO CARNATION CO., Joliet, Ill.

ROBT. CRAIG & SON

JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

"MY MARYLAND"

The largest, most productive and most profitable

WHITE CARNATION

yet raised. Will be disseminated in 1906. Write us about it. Also for other new and standard carnations.

Chrysanthemum Stock Plants

Dr. Enguehard	Each Doz.	\$0.35 \$3.00
White Mrs. J. R.		
Trantor	.35	3.00
American Beauty	.35	3.00
S. T. Wright	.50	5.00
Uncle John	.35	3.00
Rockford	.25	3.00
Mrs. Probin	.35	
Mrs. Newell	.35	

H. WEBER & SONS, Oakland, Md.
Mention the Florists' Exchange when writing.

PROSPECTOR

RED SPORT FROM MACEO

Color equal to Estelle, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market, producing more blooms to the square foot than any variety now grown.

It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz.

Easy grower, free from disease, and, like its parent, can be planted close, as there is no surplus green, every shoot producing a flower.

We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

COME AND SEE THE STOCK GROWING
H. W. FIELD, Northampton, Mass.
Mention the Florists' Exchange when writing.

New Light Pink Carnation PHYLLIS

A true Daybreak color, a free bloomer and a good keeper
Price, \$12.00 per hundred; \$100.00 per thousand.

CHRYSANTHEMUMS

All the newest and best varieties at advertised rates.

JOHN N. MAY, SUMMIT, N. J.

Mention the Florists' Exchange when writing.

2500 Rooted Carnation Cuttings

for January and February delivery: Flora Hill, Mrs. McGowan, Joost, Queen Louise, Elton, a fine red. All at \$10.00 per 1000. Cash with order, please.

LOCUST STREET GREENHOUSES
J. H. A. HUTCHISON, Prop. OXFORD, PA

Mention the Florists' Exchange when writing.

BOSTON MARKET

Fine rooted cuttings of the above ready now. An excellent substitute for Flora Hill, price \$17.00 per 1000.

H. A. MOLATSCH, 68th St., bet. 8th & 9th Aves. Brooklyn, N. Y.

UNROOTED Carnation Cuttings

The following at \$3.00 per 100; \$25.00 per 1000:
White Lawson, M. A. Patten,
Flamingo, Nelson Fisher,
Lady Bountiful, Crusader.

The following at \$2.00 per 100; \$15.00 per 1000:
Enchantress, The Queen,
Boston Market, Fair Maid.

IMPERIAL GREENHOUSES, UTICA, N. Y.
Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

BIG STOCK

ORANGE TREES

The Philippi Nurseries, PHILIPPI BROS Prop. ROCKLIN, CAL.

Look Here

CHRYSANthemum STOCK PLANTS

See my advertisement on page 680 of issue of December 3, for varieties and prices, or write me.

CARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$2.00 per 100, \$15.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Harry Fenn, Harlowarden, Prosperity, Fair Maid, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.50 per 100, \$30.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000.

Boston Ferns, from benches, good for 5 in. 6 in., or 7 in. pots, 25c., 35c. and 50c.
JAMES E. BEACH, 2019 Park Avenue, Bridgeport, Conn.
Mention the Florists' Exchange when writing.

HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

Mention the Florists' Exchange when writing.

Special facilities for handling large orders. Write, Wire or 'Phone E. A. BEAVEN, Evergreen, Alabama

CLASSIFIED ADVERTISEMENTS

Terms: Cash with Order.

These Columns are reserved for advertisements of Wants and Stores, Greenhouses, Land, Etc., For Sale or Rent; also Second-hand Materials.

Rate 10 cents per line (7 words to a line) when set solid without display.

Display advertisements, 15 cents per line (6 words to a line).

When answers are to be addressed care of this office, add ten cents to cover expense of forwarding.

No advertisement taken for less than 50 cents, except Situations Wanted.

SITUATIONS WANTED

SITUATION wanted under foreman where first-class stock is grown; best of references. Address A. D., care Florists' Exchange.

WANTED, situation as decorator and maker-up, by good steady man. Address C. E. Wagner, 331 Henry St., Brooklyn N. Y.

POSITION wanted by grower of plants and cut flowers; single, good reference; state wages. Address S. F., care Florists' Exchange.

SITUATION wanted where first-class stock is grown; best of references from past and present employers. Address A. C., care Florists' Exchange.

WANTED, position on private or commercial place by a married man with 25 years' experience in all branches. Address A. E., care Florists' Exchange.

FLORIST wants situation; grower of carnations, chrysanthemums, and general stock; fine maker-up; married, two children. Address A. B., care Florists' Exchange.

YOUNG MAN, 19, wishes position in greenhouse, private or commercial; anxious to learn trade. Some experience; state wages. Address A. A., care Florists' Exchange.

STOREMAN, salesman and maker-up, five years' experience in New York City; prefer position outside; age 30, reliable. Address Florist, 1015 Lexington Ave., New York.

MOTHER and son want situation on gentleman's private place; son as gardener and florist; mother as housekeeper. Address M., P. O. Box 95, Newtown, Bucks Co., Pa.

YOUNG MAN, 23, desires position in retail florist store; five years' experience, accustomed to all details and high-class trade; best references. Address A. O., care Florists' Exchange.

SITUATION wanted as working foreman by a first-class rose grower; Beauties a specialty; competent to take full charge; would desire a place that is well situated; married. Address A. H., care Florists' Exchange.

SITUATION wanted by A1 grower of cut flowers, roses, carnations, etc.; have held present situation seven years; ready to come in three weeks; competent to take charge. Address F. Payne, 376 Center St., Bridgeport, Conn.

SITUATION wanted as working foreman by A1 grower of general cut flowers and plants (decorative or Spring stock), also good maker-up and salesman; 36 years' experience; German. Address A. K., care Florists' Exchange.

GARDENER, married, thoroughly qualified to take care of gentleman's estate; 23 years' experience raising fruit, flowers, vegetables, care of shrubbery, landscape and greenhouse work; excellent references. Address Gardener, 59 Church St., Tarrytown, N. Y.

SITUATION wanted by all-around florist as working foreman, first-class on roses and carnations; good propagator; not afraid of work; not a febrile; 25 years' experience; no drinker; state amount of glass. Address A. F., care Florists' Exchange.

SITUATION wanted as manager or working foreman on commercial or private place by gardener and florist; German, 35, married; sober and reliable; 20 years' experience as grower of cut flowers, pot plants, vegetables under glass and outdoors; understand landscape gardening; best references; good wages and steady position wanted. Address A. M., care Florists' Exchange.

HELP WANTED

A GOOD steady position for young woman with experience as maker-up and saleslady. LeMont, 436 Fourth Ave., New York.

WANTED, a rose grower on a small commercial place, to grow trees and propagate same; must be sober; single man preferred. Address Box 120, Chatham, N. J.

WANTED, a thoroughly competent rose grower, wages \$60 per month and house; give references and full particulars. Address A. L., care Florists' Exchange.

WANTED, at once, a man for general greenhouse work on a commercial place. State wages expected without board. Send reference. Address, Z. H., care Florists' Exchange.

WANTED, thoroughly trustworthy single man to work in carnations under foreman; must be a good worker and well recommended. Apply Z. F., care Florists' Exchange.

SPHAGNUM MOSS

Clean and fresh shipment, direct from the swamp, 5 barrel bales, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00.

H. R. AKERS, Chatsworth, N. J. Mention the Florists' Exchange when writing.

HELP WANTED

WANTED, experienced maker-up and salesman; good reference and city experience required; good pay and steady position to right man. LeMont, 436 4th Ave., New York City.

WANTED—Working foreman; must be good grower of cut flowers and pot plants; also a young man to care for greenhouses connected with store. S. S. Peckham, 8 S. Sixth St., New Bedford, Mass.

WANTED, a first-class storeman, good salesman and maker-up; New York City experience end reference required. Steady position for suitable party. Address Z. D., care Florists' Exchange.

WANTED man, single, for roses and carnations, and general greenhouse stock; preference given to one handy with tools. Apply Charles L. Stanley, Plainfield, N. J.

WANTED, a good grower, capable of taking charge of commercial place of nine houses, where plants and cut flowers are grown principally for local trade; \$12.00 per week; or \$35.00 per month and board, to start with. Future wages to depend on grower's ability and fitness for position. Louis C. Pilat, Ossining, N. Y.

We want a Traveling Salesman to go on the road for several months, also be able to make himself generally useful in store. Apply, with all particulars, to Weeber & Don, Seed Merchants, 114 Chambers Street, New York. Mention the Florists' Exchange when writing.

BUSINESS OPPORTUNITIES

A Rare Opportunity

One of our customers, after 31 years of work, wishes to sell his Florist business, consisting of eight greenhouses (13,000 sq. ft.) well stocked with pot plants, etc., suitable for retail trade in a Canadian town of 75,000.

Excellent local trade; store and dwelling house adjoining. Owner is retiring and if necessary will lease house and lot. \$8,000 cash required for greenhouses, stock, horse, wagon, etc.

This is an unusual chance for any energetic, capable Florist. The business is now paying from \$5,000 to \$6,000 annually over operating expenses, and is capable of considerable increase.

Those meaning business and having available funds apply to McHUTCHISON & CO., 218 Fulton St., New York City. Mention the Florists' Exchange when writing.

MISCELLANEOUS

WANTED TO PURCHASE, GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLORISTS' EXCHANGE.

WANT to rent 3 or 4 greenhouses; some ground attached; not more than 50 miles from New York. Address J. O., care Mrs. Galvin, 418 West 56th Street, New York City.

RESPONSIBLE party wants to buy, or lease for short time, with privilege of buying, up-to-date place, 6,000 to 10,000 feet of glass, suitable for roses or carnations; vicinity of Philadelphia or New York preferred. Address A. G., care Florists' Exchange.

WANTED TO BUY greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange. Mention the Florists' Exchange when writing.

SECOND-HAND BOILERS

One nine section Horvatt boiler, capacity 2-400 ft. 4 in. cast iron pipe.

One Westbered double dome No. 6, capacity 1,500 ft.

Three Hitchings boilers, Nos. 17, 10, 15.

The above boilers are complete in every way and tested before leaving my shop. Wm. H. Luton, Heating and Ventilating, West Side Station, Jersey City, N. J.

Mention the Florists' Exchange when writing.

FOR SALE

Greenhouse Material

White pine or cypress; milled to suit pattern from any catalogue chosen. Greenhouse and hotbed sash a specialty. Try V. E. Reich's Oxford Putty, especially made for greenhouse purposes.

V. E. REICH, 1429 Metropolitan Avenue, Brooklyn, N. Y. Mention the Florists' Exchange when writing.

INFORMATION WANTED

Address of Nicholas Hoefler, formerly of Beachmont, Mass.

Address C. E., Boston Flower Market, Park Street, BOSTON, MASS. Mention the Florists' Exchange when writing.

MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000. DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich. Mention the Florists' Exchange when writing.

Having severed business connections with my late employers, Messrs. Weeber & Don (after thirteen years' service) I invite inquiries and correspondence from my old friends, as I am now in a position personally to care for their wants and requirements in all lines.

GEO. A. BURNETT,

Temporary Address: 1951 Boulevard, JERSEY CITY, N. J. Mention the Florists' Exchange when writing.

LEGAL NOTICES.

A T. DE LA MARE PRINTING AND PUBLISHING COMPANY, LIMITED.—The annual meeting of the stockholders of this Company will be held at the office of said Company, Nos. 2 to 8 Duane Street (Rhinelander Building), in the Borough of Manhattan, City of New York, on the twelfth day of January, 1905, at 12 o'clock noon, for the election of a Board of Directors and two Inspectors.

J. H. GRIFFITH, Secretary. A. T. DE LA MARE, President.

A. T. DE LA MARE PRINTING AND PUBLISHING COMPANY, LIMITED.—By order of the Board of Directors the Transfer Books of the above Corporation will be closed on and after January 3, 1905, at 12 o'clock noon, to January 13, 1905, at 12 o'clock noon.

DAVID TOUZZEAU, Treasurer. A. T. DE LA MARE, President.

FOR SALE

BOILERS 3 new 6-section boilers, will heat 900 feet 4-in. c. l. pipe, \$110 each.

PIPE New 2-in. wrought iron, full lengths, with couplings, 3/4c. per ft. Good serviceable second-hand, with threads, 2-in., 8/4c.; 1 1/2-in., 5/4c.; 1 1/4-in., 3/4c.; 1-in., 3c.; 3/4-in., 2/4c.

STOCKS and DIES New Economy, best made, No. 1 Threads, 1/4-in., 3/4-in., 1-in. pipe, \$3.00. No. 2 Threads, 1 1/4-in., 1 1/2-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New Saunders Pattern. No. 1 cuts 1/4-in.-2-in. pipe, \$1.00. No. 2 cuts 1-in.-2-in. pipe, \$1.30.

STILLSON WRENCHES New, 18-in., grips 1/4-in.-2-in. pipe, \$1.65; 24-in., grips 1/4-in.-2 1/2-in. pipe, \$2.40; 36-in., grips 1/4-in.-3 1/4-in. pipe, \$4.75.

PIPE VISES New, No. 1 Hinged, grips 1/4-in.-2-in. pipe, \$2.25.

GARDEN HOSE New, 3/4-in., guaranteed 100-lb. pressure, 7/8 cts. per ft.; 1/2-in., not guaranteed, 4/10 cts. per ft.

HOTBED SASH New. Cypress, 3-ft. x 8 ft., from 70 cts. up; glazed, complete, from \$1.60 up. 90 old hotbed sash, all whole glass, 90c. and \$1.10 each.

LIQUID PUTTY Guaranteed not to peel off, 75c. per gallon.

GLASS 12x12 single, 10x12 single, 8x10 single, \$2.00 per box; 8x10 double at \$2.50 per box; 12x16 double, 12x12 double, at \$2.85 per box; 12x16 double, 18x18 double, at \$2.88 per box; 18x24 double, at \$3.10 per box.

Get our prices on New Cypress Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Paint, Points, etc.

OLD GREENHOUSES BOUGHT.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y. References: Bradstreet, Dun or Broadway Bank of Brooklyn. Mention the Florists' Exchange when writing.



Lilac Blossom, \$1.00

ELECTROTYPES

State subjects desired and we will mail proofs and prices. Perfect engravings made for exclusive use, from perfect or imperfect copy.

JAS. M. BRYANT, Horticultural Engraving and Printing, 706 Chestnut St, Philadelphia, Pa. Est. 1873. Mention the Florists' Exchange when writing.

"Standard for Quality"

GALAX LEAVES, LEUCOTHOE SPRAYS GREEN SHEET MOSS

WM. C. SMITH, Marion, N. C.

Sold in New York by L. J. Kreshover; Philadelphia, S. S. Teacock; Buffalo, Wm. F. Kastang; Albany, H. L. Steuand; Pitsburg, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Remick & Piro.

Mention the Florists' Exchange when writing.

PALMETTO LEAVES

Fresh cut, \$2.50 per 500 Perpetuated, 3.00 per 100. NEEDLE PINES, long leaf, \$5.00 per 100. PINE CONES, per 1000, small \$2.00; large, \$5.00. FLORIDA MOSS, Natural gray, \$3.00 per 100 lbs. Dyed green, \$1.60 per 10 lbs.

Prompt shipments. Cash with order, please. Florida Natural Product Co., Florida. Mention the Florists' Exchange when writing.

Southern Smilax. CHOICE STOCK WELL PACKED

50 lb. case \$6.00. Will cover about 600 square feet. 25 lb. case \$3.25. Will cover about 300 square feet.

HOLLY. Choice quality, clean green foliage, well berried, per case, 4x2x2, \$1.50; 5 cases, \$20.00.

GALAX LEAVES. Brilliant Bronze or Green, selected stock, full count, \$1.00 per 1,000; \$3.75 per 5,000.

LEUCOTHOE GREEN SPRAYS. Per 100 sprays 90c; per 1000 sprays, \$7.50.

IMMORTELLE'S. Fresh crop, red, white, blue, purple, orange, pink, green, or black, \$2.75 per doz bunches, Yellow, \$2.25 per doz bunches.

All kinds of Florists' Supplies.

L. J. KRESHOVER, 110-112 West 27th Street, New York. Telephone 597 Madison Square.

Mention the Florists' Exchange when writing.

FANCY OR DAGGER FERNS

\$1.00 per 1000. GALAX, brilliant bronze or green, 75c. per 1000; \$8.50 per case of 10,000. Laurel Festooning, handmade, full sizes, 4c., 5c. and 6c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 3c. per large bundle. Southern Wild Smilax, \$5.50 per 50 lb. case. Laurel Wreaths and Prince's Pine Wreaths made all sizes, and prices. Prince's Pine by the lb. and made to order. Tell us your wants and we will name you prices.



MILLINGTON, MASS. Telephone Office: New Salem, Mass. Mention the Florists' Exchange when writing.



Propagating.

Establishments where roses are forced in large numbers, or those making a specialty of selling young rose plants, have started propagating in December, but on medium-sized places this part of the work is not taken up till January, which is really early enough, unless the plants are to be benched very early in the Summer. It was the custom a few years ago, and is still on some places, to take any kind of wood for cuttings, especially so with such varieties as Bride, Bridesmaid, Meteor, etc. but the successful and up-to-date growers are beginning to realize that it pays to select wood of uniform ripeness and quality. Some have even gone so far as to use nothing but flowering wood, thus hoping to increase the blooming tendency of their stock. This last-mentioned practice may prove very beneficial with some classes of stock, but we have, after several years' close observation, come to the conclusion that it does not pay to cut up flowering shoots, or to use flowering wood for cuttings. Such varieties as Bride, Meteor, Perle des Jardins, etc., it will be found, throw short spurs, or blind shoots, from each of which one, two or sometimes more cuttings can be made; and if chosen when properly ripened, these will make ideal cuttings. Avoid, however, the real blind plants, a few of which can be found in almost every rose house; these produce, apparently, fine strong shoots, but when the bud forms it immediately turns brown and a new shoot starts which, in turn, will act in a similar manner. Sometimes no bud will form at all. The plant retains a fine color, and just grows. Should cuttings be taken from such plants, the result will be that you will have plenty of wood but no flowers.

There is one strange thing about these blind plants, as we call them—they are almost thornless, and the foliage is invariably of a fine dark-green color. In selecting American Beauty wood avoid that which is hard or that which is too soft. The former will lose its leaves before the cuttings are well rooted, and the latter is very apt to decay. Use the medium-sized, fairly well ripened shoots. Two eye cuttings we have found to be the best, and if given proper care, these will make the best plants. After the cuttings are made, keep them in water, as, if left dry for very long, the heels get dry and do not take up the moisture so readily after being placed in the sand.

Before putting in the cuttings the sand should be well watered and packed. A great many of the failures in rooting roses are due entirely to this important first step being overlooked. Go over the sand with a brick several times; the firmer it is packed the better. When a batch is put in, water them at once, so as to settle the sand firmly about the base of the cuttings. From now on, all draughts should be guarded against, and if much air has to be put on to reduce the temperature, spray the cuttings lightly three or four times a day, and damp down the walks to keep the air moist, as a dry atmosphere is detrimental to cuttings of any kind. Maintain an even temperature overhead—about 52 or 54 degrees is right, and 64 degrees in the sand. With this treatment American Beauty will root in five, and the tea roses in four weeks. The sun, of course, must never be permitted to strike the cuttings. Where it is not advisable to paint or whitewash the glass, use cheese cloth; this does not cost much, and is to be preferred to paper. Let it be placed about a foot or more above the propagating bench, as, if merely laid on the cuttings, as is the case with paper, it has to be removed when watering becomes necessary; many of the cuttings are thus disturbed, and these invariably die.

PENN.

Prize Winners

AND A FEW OTHER GOOD THINGS WE HAVE TO OFFER

THE TWO GRAND NEW WHITE Chrysanthemums

MAJESTIC and ADELIA
90 Points Score Commercially 89 Points

Rooted Cuttings, \$3.00 per dozen; \$15.00 per 100; \$125.00 per 1000. From 2-in. pots, 5 cts. additional.

"MAJESTIC" won First Prize for best one hundred White at the great World's Fair Flower Show.
"ADELIA" capable of doing the same trick in the same company.

MADONA. A fine Pink at same prices.

THE FINE NEW PINK ROSE "LA DETROIT"

Field-grown strong plants for immediate delivery.
\$15.00 per 100; \$125.00 per 1000

Carnations

**WHITE LAWSON
and FLAMINGO**

Rooted Cuttings, \$7.00 per 100; \$60.00 per 1000

Our "WHITE LAWSON" won First Prize for best one hundred Blooms at the great World's Fair Show.

Our "FLAMINGO" won First Prize for best one hundred Scarlet.

"SNAPDRAGON"

OUR GIANT PINK

A fine White and a grand Yellow.
From 2-in. pots, \$6.00 per 100; \$50.00 per 1000

Early Delivery. All orders booked and filled in rotation.

John Breitmeyer's Sons, Detroit, Mich.

Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Merstham Yellow, White Coombes, Emily Millham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Duckham, the cup winner, 70c. each; \$7.50 per dozen. Send for list.

CHARLES H TOTTY, MADISON N. J.

Chrysanthemum Stock Plants

Polly Rose, Pacific, 6 cts. each.
Wm. Chamberlain, Ivory, Appleton, Orizaba, Nellie Pickett, Sunehine, Edgar Sandere, Brutus, Maud Dean, Kalb, Kate Broomhead, all at 15 cts. each.

Agawam Lodge Conservatories FLUSHING N. Y.

Rooted Cuttings	CARNATIONS	Fine healthy Stock
Ready now.	Orders booked for future delivery.	
White Lawson	100	1000
Lady Bountiful	7.00	\$60.00
Mrs. M. A. Patten	6.00	50.00
Nelson Fleiter	7.00	60.00
Dahlem	6.00	50.00
Flamingo	6.00	50.00
Euchaetrea	3.50	30.00
Boston Market	2.50	20.00
The Queen	2.50	20.00
Mrs. T. W. Lawson	2.50	20.00

FIELD-GROWN ROSES ROOTS

Hybrid Perpetual, Hybrid Teas, Hardy Climbers, Everblooming Teas, Etc. Good assortment of varieties from \$6.00 to \$12.00 per 100.

VERBENAS

Best Mammoths, rooted cuttings... 100 \$1.00 1000 \$8.00

GERANIUMS

Double, single and Ivy Leaf varieties, 100 1000
Strong pot plants \$3.00 \$25.00
Strong rooted cuttings 2.00 15.00

MISCELLANEOUS

Ageratum, Cope's Pet, White Cap, 100 1000
E. Pauline, S. Gurney, L. Bonnet, \$1.00 \$8.00
Achyranthea, four sorts, 1.00 8.00
Coleus, best bedding and fancy sorts 1.00 8.00
Cuphea 1.25
Fuchsia, double and single 2.00 15.00
Feverfew, double white 1.50 12.00
Heliotrope, light and dark 1.25 10.00
Ivy Geranium 1.50
Moon Vine, true white 2.00 15.00
Salvia, Splendens and Bedman 1.25 10.00
Salvia, new early flowering sorts 1.50 12.00
SMILAX, 2 1/2 in., \$2.50 per 100; \$20.00 per 1000;
3 in., \$3.00 per 100.

WOOD BROS., Fishkill, N. Y.

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The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	CRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories NATICK, MASS.

Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION: How To Grow it

By C. W. WARD
Price \$3.50, Carriage Paid

THE FLORISTS EXCHANGE, 2 Duane St., N. Y.

READY NOW Strong, Healthy Rooted Cuttings

	Per 100	Per 1000
LAWSON	\$2 00	\$15 00
WOLCOTT	2 00	15 00
ESTELLE	2 25	16 00
GLACIER	1 75	12 50
PROSPERITY	2 00	15 00
ENCHANTRESS	3 00	25 00

	Per 100	Per 1000
ADONIS	\$3 50	\$30 00
BOSTON MARKET	2 00	15 00
NELSON FISHER	6 00	50 00
LADY BOUNTIFUL	6 00	50 00
MRS. PATTEN	6 00	50 00
MACKINAC	5 00	40 00
BRIDE	5 00	40 00

The Richmond Rose

THE NEVER-FAILING RED

Own Root Stock, \$30.00 per 100; Grafted Stock, \$35.00 per 100

ROSALIND ORR ENGLISH DEEP PINK FORCING ROSE

\$25.00 per 100, Own Root; \$30.00 per 100, Grafted.

Cardinal Carnation

Commercial Scarlet; Splendid Cuttings, \$12.00 per 100; \$100.00 per 1000.

ALL THE NEW 'MUMS OF THE YEAR.

Write for prices.

The E. G. Hill Co., Richmond, Indiana

Mention the Florists' Exchange when writing.

CARNATIONS

HEALTHY YOUNG STOCK WRITE FOR PRICES
Fine large DUCKHAM CHRYSANTHEMUM STOCK PLANTS at \$1.25 per doz

Flamingo, Enchantress, Queen, Queen Louise, Walcott, Lawson, Floriana, Genevieve Lord and FIANCEE.
R. G. PYE, Nyack, N. Y.

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New Carnation CRISIS

THE FINEST SCARLET. LARGE FLOWER. LONG STEM. NEVER FADES. NEVER BURSTS.

PERFECTLY HEALTHY. THE BEST SHIPPER. BRINGS THE HIGHEST PRICE. THOROUGHLY TRIED. A MONEY MAKER.

PRICE: \$12.00 per 100; \$100.00 per 1000.

SEND FOR CIRCULAR.

J. L. DILLON, Bloomsburg, Pa.

250,000 Rooted Cuttings CARNATIONS

NOW READY

All Orders Filled Full and Prompt

	Per doz.	Per 100	Per 1000		Per doz.	Per 100	Per 1000
Alba, big white	\$0 25	\$1 40	\$12 50	Genevieve Lord, plnk.	\$0 20	\$1 20	\$10 00
Queen Louise, white	20	1 20	10 00	Mrs. Joost, plnk.	20	1 20	10 00
Flora Hill, white	20	1 20	10 00	G. H. Crane, scarlet	20	1 20	10 00
Wolcott, white	20	1 20	10 00	America, scarlet	20	1 20	10 00
Norway, white	20	1 20	10 00	Potter Palmer, scarlet	20	1 20	10 00
Prosperity, fancy	25	1 40	12 50	Harlowarden, crimson	25	1 40	12 50
Lawson, plnk.	25	1 40	12 50	Gen. Gomez, crimson	20	1 20	10 00
The Marquis, plnk.	20	1 20	10 00	Eldorado, yellow	20	1 20	10 00
				Armazindy, var.	20	1 20	10 00

6 at dozen rates; 25 at 100 rates; 250 at 1000 rates. Cash.

If not satisfactory on arrival, return at once and money will be refunded promptly.

We prepay express charges at above prices.

WM. LINFOOT, 317 N. Vermillion St., DANVILLE, ILL.

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For Summer bloom, strong, 2 in., \$2.50 per 100. Dracena Indivisa, 4 in., \$3.00 per 100. Paper White Narcissus, cut blooms, \$2.50 per 100. CASH WITH ORDER.

WM. KEIR, Pikesville, Md. Mention the Florists' Exchange when writing.

ORDERS BOOKED NOW FOR

CARNATIONS

Flora Hill and Mrs. Joost, 2 in., \$1.25 per 100. ROSES Ivory and Golden Gate, 2 1/4 in. pots, \$1.50 per 100.

H. ROSSITER, 200 Lexington Ave., JERSEY CITY, N. J. Mention the Florists' Exchange when writing.

CARNATIONS

50,000 rooted cuttings; good strong plants, now ready for delivery.

	Per 100	Per 1000
MRS. T. W. LAWSON	\$2 00	\$15 00
WHITE LAWSON	5 00	45 00
ENCHANTRESS	2 50	20 00
MRS. M. A. PATTEN	4 50	40 00
BOSTON MARKET	2 00	18 00

60 at 200 rates, 500 at 1000 rates. Satisfaction guaranteed. Cash with order.

VIOLETS PRINCESS OF WALES

Unrooted cuttings, ready now, 50 cts. per 100; \$4.00 per 1000.

Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000. Please place your orders now.

FD. BOULON & SON SEA CLIFF, N. Y. Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Now Ready

Send for price list of all the new and standard sorts.

WILLIAM SWAYNE, Box 226, Kennett Square, Phila. Mention the Florists' Exchange when writing.

CARNATION Rooted Cuttings

	Per 100	Per 1000
Flamingo	\$8.00	Prosperity \$2.00
Enchantress	3.00	Wolcott 1.50
Estelle	2.00	Harlowarden 1.50
Lawson	1.50	Crane 1.50
Queen	1.50	Queen Louise 1.50
Boston Market	1.50	Hill 1.25
Her Majesty	1.50	Joost 1.25

Strong stock. Satisfaction guaranteed. Special prices on large quantities. Cash. SMITH & GANNETT, Geneva, N. Y. Mention the Florists' Exchange when writing.

The Model EXTENSION CARNATION SUPPORT

Endorsed by all the leading carnation growers as the best support on the market. Made with 2 or 3 circles. Write for prices and circulars.

We have special low prices to offer and can save you money on

Galvanized Wire ROSE STAKES

Write us for prices before ordering elsewhere. Prompt shipment guaranteed.

IGOE BROS. 226 North 9th Street BROOKLYN, N. Y. Mention the Florists' Exchange when writing.



CARNATIONS Rooted Cuttings
29,000 now ready, Al stock

Mrs. M. A. Patten.....	per 100 \$6.00	per 1000 \$50.00
Flamingo.....	" 3.00	" 40.00
Enchantress.....	" 3.50	" 27.50
Boston Market.....	" 3.00	" 25.00
J. H. Manley.....	" 3.00	" 25.00
Fair Maid.....	" 2.50	" 20.00
Harry Fenn.....	" 2.50	" 20.00
Mrs. T. W. Lawson.....	" 2.50	" 20.00
Gov. Wolcott.....	" 2.50	" 20.00

HENRY A. STEVENS CO., East St., Dedham, Mass.
Mention the Florists' Exchange when writing.

**J. D. THOMPSON
CARNATION CO.**
JOLIET, ILL.

Carnations Our Specialty
Mention the Florists' Exchange when writing.

Carnation Cuttings

	Per 100	Per 1000
Enchantress.....	\$4.00	\$30.00
Queen.....	3.00	25.00
Fair Maid.....	3.00	25.00
Harry Fenn.....	3.00	25.00
M. A. Patten.....	6.00	50.00
Queen Louise.....	2.00	15.00
Lawson.....	2.00	15.00
Wolcott.....	2.00	15.00
Manley.....	2.00	15.00
Estelle.....	2.00	15.00

Our stock is first-class, and we guarantee our cuttings to be Al and well-rooted. Orders from parties unknown to us must be accompanied by cash or satisfactory references.

THE LEWIS CONSERVATORIES, MARLBORO, MASS.
W. L. LEWIS

Mention the Florists' Exchange when writing.

**CALIFORNIA
CARNATION CO.**

LOOMIS, CAL.
The Largest Growers of
Rooted Cuttings of
CARNATIONS
in the United States.

SEND FOR PRICE LIST, READY NOW.
Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Now Ready

Eclipse Our 1905 introduction. A pink carnation, lighter in color than Lawson and of a more even and bright shade of pink. No objectionable shading or bleaching. A strong free growth, large flowers on long stiff stems and early and continuous flowering.

Fiancee A most pleasing shade of medium pink. No carnation has ever equaled the number of awards received by this variety.

Cardinal Brilliant scarlet. A great improvement over Estelle.

F. Burki Pure white.

The above four varieties,
\$12.00 per 100; \$100.00 per 1000.

Richmond Gem Scarlet, \$10.00 per 100; \$75.00 per 1000.

In addition to the above we can supply twenty-five of the best standard sorts, varieties that are profitable to grow. Our preliminary Price List will be sent upon application. We are pioneers in the carnation line and our facilities for rooting and handling cuttings are nearly perfect, due to our long experience.

F. DORNER & SONS CO., LA FAYETTE, INDIANA

Lady Bountiful and the Belle

The two best commercial white carnations of the present day. Both have received honors over competitors at the Fall exhibitions. We have large stocks of these two varieties which are already in great demand. Do not delay in placing your order for early delivery. \$6.00 per 100; \$50.00 per 1000; \$112.50 per 2500.

White Lawson \$7.00 per 100; \$60.00 per 1000.

Flamingo, Nelson Fisher, and Mrs. M. A. Patten, \$6.00 per 100; \$50.00 per 1000.

Crusader, Indianapolis, Judge Hinsdale and The President, \$5.00 per 100; \$40.00 per 1000.

Enchantress \$3.00 per 100; \$25.00 per 1000.

Mention the Florists' Exchange when writing.

**ROOTED
Carnation Cuttings**

READY NOW.
The following at \$5.00 per 100; \$40.00 per 1000:
White Lawson, M. A. Patten,
Flamingo, Nelson Fisher,
Lady Bountiful, Crusader.
The following at \$3.00 per 100; \$25.00 per 1000:
Enchantress, The Queen,
Boston Market, Fair Maid.

IMPERIAL GREENHOUSES, UTICA, N. Y.

Mention the Florists' Exchange when writing.

**ROOTED
Carnation Cuttings**

	Per 100	Per 1000
Mrs. M. A. Patten.....	\$5.00	\$46.00
Enchantress.....	3.00	25.00
Fair Maid.....	2.50	20.00
Mrs. T. W. Lawson.....	2.50	20.00
Mrs. Nelson.....	2.50	20.00
Harlowarden.....	2.50	20.00
Harry Fenn.....	2.50	20.00
The Queen.....	2.50	20.00
Queen Louise.....	2.00	15.00

Standard Greenhouses, NORWOOD R. I.

Mention the Florists' Exchange when writing.

**ROOTED
Carnation Cuttings**

	Per 100	Per 1000
White Lawson.....	100	1000
Flamingo.....	\$6.00	\$50.00
Enchantress.....	6.00	50.00
The Queen.....	3.60	30.00
The Queen.....	2.60	20.00

THE CARDINAL from 2 in. pots, \$12.00 per 100. Extra fine cuttings, sure to give satisfaction.

LARCHMONT NURSERIES
LARCHMONT, N. Y.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

	Per 100	Per 1000
Enchantress.....	\$3.50	\$30.00
Fair Maid.....	2.50	20.00
Queen.....	3.00	25.00
Queen Louise.....	2.00	15.00
Lawson.....	2.50	20.00
Cressbrook.....	2.00	15.00
Challenger.....	2.00	15.00
Flacco.....	2.00	15.00
H. Fenn.....	3.00	25.00
Prosperity.....	2.50	20.00
Geo. M. Bradt.....	3.00	25.00
FIANCEE.....	12.00	100.00

C. WARBURTON, Fall River, Mass.
Mention the Florists' Exchange when writing.

WM. PENN

The most prolific pink carnation ever offered the trade. Every grower should give it a trial. You can not make any mistake in planting a thousand of it, but rather than have you miss it I will send free by mail 25 well-rooted cuttings for \$2.50. Send for price list of this and other varieties.

QUEEN LOUISE and LILLIAN POND at \$10 per 1000
FLORIANA, HARRY FENN and MRS. ROOSEVELT at \$12.50 per 1000.
MRS. E. A. NELSON at \$15.00 per 1000.

ALBERT M. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

RED SPORT (Of Maceo) The NEW "BREAD and BUTTER" Brilliant Red Commercial Carnation

WHAT SOME OTHER PEOPLE SAY ABOUT IT:

WASHINGTON, D. C., December 19, 1904,
1214 F Street N. W.

A. B. DAVIS & SON, Purcellville, Va.
GENTLEMEN:—Please make our order for rooted cuttings of RED SPORT 2,000 instead of 1,000.

The bloom you sent in today were certainly very fine. We have been watching this promising new red for three years and the more we see of it and the longer we sell it over the counter the better we like it.

We do not make a practice of going in very strong on the new varieties the first year they are sent out, but after seeing RED SPORT growing and blooming at your place last Tuesday, we are convinced it is a great Christmas carnation, and an all around money maker, and we wish to increase our order as stated above.
Yours very truly,
A. GUDE & BRO.

CHICAGO, February 8, 1904.

A. B. DAVIS & SON, Purcellville, Va.
GENTLEMEN:—Your letter and RED SPORT of Maceo came to hand Friday. We waited to see how carnations would keep before writing you. The color and keeping qualities are the best, and if it blooms as freely as Maceo it is a good one.
Very respectfully yours,
BASSETT & WASHBURN.

KENNETT SQUARE, Pa., October 14, 1904.

A. B. DAVIS & SON, Purcellville, Va.
DEAR SIR:—Yours 12th at hand and I will be glad to include your RED SPORT of Maceo in our list and believe it will meet with good sale. You may book my order for 2,500 of them to start with. I think you have a good thing and I congratulate you.
Very truly,
WM. SWAYNE.

WHAT WE HAVE TO SAY ABOUT RED SPORT:

THIS New "Bread and Butter" commercial brilliant Red Carnation, now in its fourth year, has the hardy constitution of Gen. Maceo, with a stronger, heavier growth, longer and stiffer stem and larger flower. Growing under the same conditions and in the same house with Flamingo and Estelle, it has produced four times as many flowers as the former and twice as many as the latter. The color is as good as Estelle and the bloom brings as much as does Estelle at its best. Every flower is of a uniform, brilliant red, perfectly double, with an ideal calyx; in fact, we have never seen a split one.

RED SPORT is perfectly healthy, an easy variety to grow, an early and continuous bloomer, throwing its heaviest cuts around the Christmas holidays and during the winter months, when red is in demand. RED SPORT will keep longer and travel farther than any other red carnation, and will prove a bonanza to growers doing a shipping business. If the scarcity of reds in the market that now exists continues, RED SPORT will pay better to the square foot of bench room than any other variety of any color to date.

Every florist who has seen RED SPORT growing has placed an order for rooted cuttings, which tells the tale. All our rooted cuttings are sold until January 5. Orders filled in strict rotation from above date on. Prices, 12 for \$1.50; 25 for \$2.50; 50 for \$4.00, postpaid. \$6.00 per 100; \$50.00 per 1000, by express. We guarantee cuttings to be well rooted and to arrive in good condition.

QUEEN LOUISE Still the standard white. We offer clean, healthy stock, \$1.25, postpaid; \$10.00, by express.

A. B. DAVIS & SON, Carnation Specialists, Purcellville, Va.

Mention the Florists' Exchange when writing.

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Eranthis 4-8
Eryngium 28
Evergreens 9
Fartugium 9
Ferns 7-8-9-17
Feverfew 8-9-17-19
Fiens 8-9
Fruits 8-9-19
Gaillardia 8
Gazania 8
Genista 8
Geraniums 7-8-9-17-19
Gladioli 3-9
Hardy Perennials 3
Heliotrope 8-9-17-19
Hibiscus 8-9-17
Hollyhocks 8-9-17
Hydrangeas 4-8
Impomea 8-9-19
Isoeoe 2
Ivy 7-8-9-17-19
Lantana 8
Lemon 9
Lilacs 8-9
Lilias 2-3
Lobelia 9
Mantetta 8
Manetti Stocks 3
Neotiana 3-9
Nursery Stock 4-8
Orange 17
Oreblids 9
Palms 7-8-9-17
Pandanus 7
Pansy 3-8-9
Peonies 4-8
Petunias 2-3-8-9
Phlox 2-3-9
Pinks 9
Primula 3-7-8-9
Pyrethrum 4
Rhododendrons 4-8
Roses 1-4-8-17-19-20
Salvia 2-3-8-9-17-19

New York.
News Notes.
The New York Florists' Club will hold its first meeting of the year in the club's rooms, Grand Opera House Building, on Monday evening, January 9. The installation of officers will take place at this meeting, and the various committees for the ensuing year will be announced by President F. H. Traendly. The year 1904 has been one of the most prosperous and progressive the club has ever experienced and there is no shadow of a doubt that, with Mr. Traendly at the helm for a second term, the club will increase in popularity and strength and make a still brighter record for 1905.
W. F. Sheridan, chairman of the Dinner Committee of the club, informs us that all arrangements for the annual dinner have been completed and that the event will occur at the St. Denis Hotel, Saturday, February 4, and that tickets will be on sale at the club meeting on Monday night, January 9. A large number of tickets have already been sold. The affair promises to excel all its predecessors. Good music, and a clean entertainment otherwise, will help digestion.
A business meeting of the New York Florists' Bowling Club will be held on Monday, January 9, at the alleys, Thirtieth street, near Eighth avenue, at 3 p. m. Every member should make a special effort to be present, as busi-ness of great importance is to come before the meeting. Bowling will also take place the same afternoon. Present indications point to the playing of the return match with the Hoboken, N. J. team on their alleys on Saturday evening, January 14, though this has not yet been definitely settled. Every member should come to the alleys on Monday and get into form, as we do not wish to see a repetition of the Madison catastrophe.
George A. Burnett, who for thirteen years has been with the seed house of Weeber & Don, leaves their employ to-day (Saturday) and will immediately commence in the seed and bulb business for himself at 1951 Boulevard, Jersey City.
On Tuesday afternoon quite a little excitement was caused in Alex. Warendorff's store, 1193 Broadway, by some liquid metal polish becoming ignited through some cause or other. The liquid went off in a puff of flame and customers who were in the store ran out into the street. The blaze itself did not amount to much, but some one turned in a fire alarm, and in a few minutes the fire engines drove up; the clanging of the bells disturbed the audience in Proctor's Theatre, which is next door, and it had to be announced from the stage that it was a false alarm. No damage was done to the store, and the show in the theatre went on without further interrup-tion.
At a New Year's party of a prominent citizen in Uniontown, Pa., on December 31, the elaborate floral decorations were done by The Rosary Flower Company, of New York. Orchids, sweet peas and American Beauty roses were used chiefly, every room in the house being lavishly decorated.

MISCELLANEOUS.
Baskets 28
Boilers 18-26-27-28
Carnation Bands 33
Cement Beuchs 26
Collections 25
Cut Flower Box 25
Decorative Greenery 18-25
Designs 18-24-28
Electric Thermostat 26
Engravings 18
Fertilizers 26
Fittings 26-27
Florists' Supplies 4
Flower Pots, Tubs, etc 26
Galax 18
Glass 18-26-27
Glazing Points 27
Greenhouse Building 26-27-28
Gutters 26-27-28
Holly 26-27
Hose 18
Insecticides 18-28
Insumbles 26-27-28
Mastica 28
Moss and Peat 2-18
Mushroom Spaw 3
Newspaper 26
Paint & Painters' Supplies 26
Pipe, Joints, Valves 18-26-27-28
Putty 18-26-27
Raffia 26-27
Saws 18-20-27-28
Seed Cases 3
Stakes & Supports 20
Tile 28
Tools and Implements 18-26-28
Torridoor 28
Ventilators 26-27-28
Wants 18
Water Tower 26
Wired Toothpicks 23

The many friends in the trade of John N. May, Summit, N. J., will hear with regret that he was taken quite ill last week while transacting business in the Summit Bank.
August Ellwood has opened a retail store in the Hoffman Arms, 640 Madison avenue, with greenhouses at Southampton, L. I.

Cincinnati.
The Week's News.
New Year's Day here was Spring-like—the birds were singing and the thermometer registered 53 degrees. This kind of weather stayed with us a day and a half; then the winds commenced blowing, rain set in, then sleet, finally ending with snow, and this we still have with us. The thermometer stands at 22 degrees.
Business for New Year's was not large—it never is—but was up to the average of other years. Taking the last three months of the old year as a criterion, I believe that the florists throughout the United States will agree with me when I say that the average business was not up to that of former years. The start 1905 has made seems more encouraging, and I trust from now on stock will be more plentiful and business as a whole much better. Every year we have the same old complaint from the retailers (and I'm rather inclined to believe it is a just one) that, owing to the very sharp advance in prices for cut flowers, many of their best customers are driven to shelter, there to wait till things get down to moderation, when they will commence buying again. Plants are coming more and more into favor at Christmas time from this cause only. The people will not stand for exorbitant prices, it matters not how badly they may want the goods.
Our next holiday is President McKinley's birthday. Carnations alone are used upon this occasion, not one special color, but all colors of carnations, so, Mr. Grower, look to your carnations, and see that you have both quantity and quality for that day. It matters not how many you have, you cannot possibly produce enough for this occasion. From now on, carnations will undoubtedly lead, with roses a close second.
It is to be hoped that the weather man will be kind to us all from now on, for to him we must look for flowers. Then, we hope he will not send his blizzard to greet us when we arrive in Chicago the last of this month, when the greatest show of carnations this earth has ever seen will be staged. To Phil. Hauswirth we look to have all things right, and our president, who comes from the city of "stripes," will no doubt be busy.
Hugh B. Howard was a caller during the week. He says Chicago will extend, as she always does, a very hearty welcome to all visiting members of the American Carnation Society.
I am pleased to say that my assistant, C. J. Ohmer, after a week in bed, is once more at his post. W. J. Gray is quite sick. W. Gear and family are all sick, and several others—not serious, though.
I wish all a Happy and Prosperous New Year.
E. G. GILLETTE.

SCRANTON FLORIST SUPPLY COMPANY 201 North Seventh Ave., SCRANTON, PA.
Importers and Manufacturers of FRESH GALAX and LFUCOTHOE
ALL FLORISTS' SUPPLIES
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REED & KELLER 122 W. 25th St., NEW YORK
Importers and Manufacturers of FLORISTS' SUPPLIES Galax Leaves and all Decorative Greens.
New York Agents for Caldwell's, Moore, Ala., Parlor Brand Smilax.
Mention the Florists' Exchange when writing.

HARDY CUT DAGGER AND FANCY FERNS
\$1.50 per 1000.
WILD SMILAX, \$1.00 and \$7.00 per case.
GALAX, New crop. Green and bronze. \$1.00 per 1000.
Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, Letters, Immortelles, Cymas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.
HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass. L. D. Telephone, Main 2615.
Mention the Florists' Exchange when writing.

MUSHROOM GROWING IN ST. LOUIS.—Caves in this city, which have heretofore provided storehouses for breweries, are now being used for the cultivation of mushrooms by Victor Pinet, a Frenchman. From sixty to seventy pounds of mushrooms a day are being gathered.

Hardy Cut Ferns
Dagger, \$1.00 per 1000. Fancy, \$1.25 per 1000.
Bright new Bronze and Green Galax, \$1.00 per 1000.
Sphagnum Moss, 40c. per bag; \$1.00 per bbl.
Green Sheet Moss, \$1.00 per bbl.
Ivy Leaves, 40c. per 100.
Laurel, 50c. per bunch. Roping, 6c. and 8c. per yard.
DISCOUNT ON LARGE ORDERS.
Orders sent by mail or telegraph receive prompt and personal attention.
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Wall Space for advertising purposes to Rent
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Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

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Commission Dealer in
CUT FLOWERS
Consignments Solicited

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And Dealers in FLORISTS' SUPPLIES
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Telephone 3924 Madison Square.

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JAMES McMANUS Telephone 759
Madison Square 50 W. 30th St., New York
Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

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Shipping orders receive prompt attention. Consignments Solicited.
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TELEPHONE: 1905 MADISON SQUARE
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YOUNG & NUGENT

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42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY

WHOLESALE COMMISSION FLORIST

Receiver and Shipper of all varieties of Cut Flowers
Telephones: 2200 Madison Square 57 West 28th Street, NEW YORK
2201 Madison Square

Wholesale Prices of Cut Flowers, New York, January 6, 1905.

Prices quoted are by the hundred unless otherwise noted.

A. BEAUTY, fancy-special	40.00 to 60.00	Int'r grades, all colors.....	2.00 to 2.50
" extra	25.00 to 40.00	White.....	2.00 to 3.00
" No. 1	15.00 to 25.00	STANDARD VARIETIES { Pink.....	2.00 to 3.00
" No. 2	6.00 to 8.00	Red.....	2.00 to 3.00
" No. 3	3.00 to 4.00	Yel. & Var.....	2.00 to 3.00
Brides, 'Maid, fancy-spec'	12.00 to 15.00	White.....	3.00 to 4.00
" extra	8.00 to 10.00	*FANCY— (The highest grades of standard var.) { Pink.....	3.00 to 4.00
" No. 1	5.00 to 7.00	Red.....	3.00 to 4.00
" No. 2	3.00 to 4.00	Yel. & Var.....	3.00 to 4.00
Golden Gate.....	3.00 to 15.00	(NOVELTIES.....	6.00 to 8.00
Liberty.....	5.00 to 50.00	LILIES.....	10.00 to 12.00
Meteor.....	3.00 to 8.00	LILY OF THE VALLEY.....	1.50 to 3.00
Mme. Abel Chatenay.....	4.00 to 15.00	MIGNONETTE, ordinary.....	3.00 to 5.00
ADIANTUM.....	.50 to .75	fancy.....	10.00 to 12.00
CROWNEANUM.....	.50 to 1.50	PANSIES, per dozen bunches.....	.50 to .25
ASPARAGUS.....	25.00 to 50.00	PAPER WHITE NARCISSES.....	1.00 to 2.00
" Sprenger, bunches.....	12.00 to 25.00	ROMAN HYACINTHS.....	1.00 to 2.00
CALLAS.....	10.00 to 12.00	SMILAX.....	10.00 to 12.00
CATTLEYS.....	30.00 to 75.00	STOCKS, per bunch.....	.05 to .10
CYPRIPEDIUMS.....	6.00 to 12.00	TULIPS.....	2.00 to 3.00
DAISIES.....	.50 to 1.00	VIOLETS.....	.40 to .60
		" specials.....	.75 to 1.25

WALTER F. SHERIDAN

Wholesale Florist

Telephone, 902 Madison Square 39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
Telephone, 1998 Madison Square JOHN I. RAYNOR, 49 West 28th St., NEW YORK

EDW. C. HORAN

Receiving Daily Fine PRES. CARNOT KAISERINS METEORS BEAUTIES Etc.

55 West 28th Street NEW YORK
Telephone, 421 Madison Square
CUT FLOWERS AT WHOLESALE
Mention the Florists' Exchange when writing.

RETAIL TRADE.

WASHINGTON, D. C.—The Leiter wedding was one of the events of the past week which called for very elaborate decorations. The different rooms were tastefully adorned with tropical plants and American Beauty roses. The breakfast table had for a centerpiece Gloire de Lorraine begonia. This decoration was let out to two parties, each having his own part to decorate. George Cook and Small & Sons had the work, which was simply superb.

Small & Sons had a large decoration for Mr. J. R. McLean. The ceiling in the dining-room was completely covered with red paper bells; the rapper of each bell being a miniature electric light.

George Shaffer had several decorations at which he used Liberty and Meteor extensively, particularly of the latter variety.

The President held his New Year's reception, which is considered to be the official opening of the season. Mrs. Roosevelt carried a bouquet of white carnations, while the cabinet ladies, who were in line, carried bouquets of Roman hyacinths and violet Princess of Wales, some of President Carnot roses and others of Enchantress carnations. The house throughout was decorated with crotons, dracenas, Farleyense ferns and other choice tropical plants.

The Christmas and New Year's trade has exceeded all expectations; and the prospect seems bright for the ensuing season. M. C.

SYRACUSE, N. Y.—Wheadon & Henck had the table decorations for the Automobile Club banquet, held at the Yates Hotel, Tuesday, January 3. The table decorations were of Enchantress carnations. The centerpiece was a miniature automobile, 3 feet long, made on the exact lines of a Franklin touring car. The body of the car was composed of pink roses, pink carnations and sweet alyssum; the hood of pink roses; seats, wheels and steering gear and steps, of violets; horn and lamps, of yellow chenille, the whole of the details being very skilfully and faithfully worked out, creating a very striking and beautiful effect. J. B. B.

CALENDARS.

Beautiful wall calendars for 1905 have been received at this office from The Leo Nissen Co., Philadelphia; George E. Dickinson, Broadway, New York. The very serviceable desk calendar of the Pope Manufacturing Co., of Hartford, Conn., has also reached us, with its numerous testimonials as to the healthfulness of bicycle riding. Theodore A. Ball, Westfield Nurseries, Mountainside, N. J., also sends us a calendar.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of CUT FLOWERS.
Consignments solicited. Prompt settlements.
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THE AMERICAN CARNATION
Price, \$3.50
A. T. DELA MARE PTG. & PUB. CO. LTD.

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THE LEO NIESSEN COMPANY

In Any Quantity. No better stock coming to this market

STORE OPEN FROM 7 A.M. to 8 P.M. 1217 Arch St., Philadelphia, Pa

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American Beauties, Gardenias, Valley, and everything else in Choice Flowers.

Philadelphia Wholesale Flower Market 1235-37 Filbert St., PHILADELPHIA, PA.

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THE PHILADELPHIA CUT FLOWER CO.

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HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses. Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN 7.30 A.M. to 8.00 P.M.

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SAMUEL S. PENNOCK

THE Wholesale Florist of Philadelphia

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St. Louis.

News Notes.

Fred Foster has the sympathy of the trade, he having lost his eight-year-old daughter by death from convulsions on December 29. A number in the trade paid their respects by calling the day of the funeral, which occurred on Friday from the family residence.

H. R. Stocke, who was chief florist at the greenhouse of the World's Fair, has resigned his position to accept a similar one with the United States Government at Washington, D. C. Mr. Stocke will leave St. Louis at once.

The Palace of Horticulture, in which the World's Fair Flower Show was held, has been turned over to the wreckers. This is the first of the exhibition structures to be razed. The Palace of Agriculture, adjoining, will follow next, after which the duties of Chief Taylor and Superintendent Hadkinson will end. Their work in these departments has been much commended by the officials and the press throughout the land.

Frank Fillmore reports a big trade during the holidays, with more funeral work than usual. He is making preparations to take the trip to Chicago, as his Christmas presents were such that he is in duty bound to go. His father is at present enjoying a visit to Chicago and will remain until Frank arrives.

President Charles Juengel, of the Florists' Club, has entirely recovered from his sickness, which prevented him from attending the last club meeting. He will be on hand next Thursday afternoon and hopes for a large attendance. The committee on transportation reports that they have twelve names of members on their list who will attend the Carnation Society meeting in Chicago this month. The trustees are also expected to bring in their list of essays for the coming season.

The bowling club will meet next week and commence their weekly rolling again at the Palace Alleys. All the old members are expected to attend. Fred C. Weber, who is president of the bowling club, will send each member a postal card announcing when the meeting will take place. Messrs. Beneke, Kuehn, Beyer and Ellison, who are bowling with the City League, are expected to join when its season closes, and an effort will be made to take a good team from St. Louis to Washington next August.

ST. PATRICK.

DUMONT & CO.

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WM. J. MOORE

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Wholesale Growers of CUT FLOWERS Prompt attention given all orders.

WORCESTER, MASS.

Mention the Florists' Exchange when writing.

Advertisement for Wm. F. Kasting, Wholesale Commission Florist, featuring a dog illustration and contact information for Buffalo, N.Y.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Boston Jan. 3, 1906, Phil'delphia Jan. 2, 1906, Baltimore Jan. 4, 1906, Buffalo Dec. 29, 1904, and Pittsburg Jan. 3, 1906. Rows include various flower types like Beauty, Roses, Carnations, etc.

BOSTON, MASS.

Asparagus Plumosus Mignonette Chrysanthemums Lily Harrisii Brides, 'Malds American Beauties

WELCH BROS.

PROPRIETORS CITY HALL CUT FLOWER MARKET 15 PROVINCE ST.—9 CHAPMAN PL.

Kaiserlins Violets Carnots Orchids Valley Carnations

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268 Mention the Florists' Exchange when writing.

CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses, Valley 11 South 16th Street, PHILADELPHIA

Mention the Florists' Exchange when writing.

Boston.

The Week's News. I notice that in the program of lectures of the Massachusetts Horticultural Society, just issued, only one or two lectures are devoted to plants or flowers, while three in succession are to be devoted to fruit.

W. B. Arnold, of Rockland, has sold the entire output of his new Variegated Lawson carnation to the F. R. Pierson Company of Tarrytown, N. Y.

C. L. Allen, the veteran seed grower of Floral Park, N. Y., has been in town this week trying to dispose of his horticultural library, which is one of the finest of its kind in existence.

William Molloy, salesman for the J. A. Budlong & Sons' Company, has been laid up for the past three weeks with an abscess in the ear.

James Denning, who was assistant salesman for the J. A. Budlong & Sons' Company, met with an untimely death on Saturday last.

The Waban Rose Conservatories have decided to introduce their new rose Wellesley this Spring.

W. W. Wyman, of the Bay State Nurseries, left Monday for a two months' trip through Europe.

Visitors the past week have included F. R. Pierson and J. R. Fotheringham, Tarrytown, N. Y.; Edward Kirk, Bar Harbor, Me., and Carl U. Fohn, Hartford, Conn.

Newport, R. I.

With Christmas over, the craft has a chance to see how well the holiday business did turn out, and the census of opinion is, as reported, that only a fair trade was done.

News Notes.

Gibson Brothers were very busy over the holidays, as, besides their usual large Christmas business, they had many important funeral orders at the same time.

Thomas Galvin has a very fine stock of rubber plants in the medium sizes; he always finds a good market for these, especially since all the seedsmen handle so many.

There has been quite a demand for Christmas trees the past week for festivals of various kinds; but as none of

the dealers had any, the only way this need could be supplied was by taking trees back from customers that were used at Christmas.

Hodgson has received from their New York store a number of golden baskets that will be filled with roses and electric lights and used as decorations for the Newport County Club ball.

There was a special meeting of the Newport Horticultural Society on Sunday, Christmas day, to attend the funeral of William S. Lawton, an active member of the society.

Joseph Gibson recently celebrated his birthday with a card party at the greenhouse.

William G. Postings sailed for Europe on the White Star liner Cedric, Friday, January 6; he will be gone about two months.

M. B. Faxon, the seedsman to the George A. Weaver Company, and wife were in Boston over the double Christmas holiday.

Some very artistic rustic stands for Christmas trees were sold here for the holiday, made by D. P. Van Gorden, of Orange, N. J.

St. Paul.

William Speth, with May & Co. for the past year, has resigned and gone to New York City.

G. Colberg was the recipient of a beautiful gold watch for Christmas.

Several big events are announced for the new year, so that the business outlook is good for some time to come.

VERITAS.

THOMPSONVILLE, CONN.—Chester F. Brainard, who for the past six years has been in the employ of his brother, D. Wm. Brainard, here, has purchased from F. N. Allen a tract of about ten acres of land known as the J. B. Allen Farm.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

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HOLTON & HUNKEL CO.

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Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25 MANUFACTURED BY W. J. COWEE, Berlin, N. Y. Samples free. For sale by dealers.

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WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always.

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Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Table with columns: Names and Varieties, Chicago Jan 5, '05, St. Louis Dec. 27, '04, Cincinnati Dec. 31, '04, Milwaukee, Toronto. Rows include Beauty, Roses, Carnations, Adiantum, Asparagus, Aster, etc.

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All Leading Varieties of Roses and Carnations

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STANDARD SIZE
 Quality—No Better.
 Carefully packed in Small Crates. Easy to handle. Price List Free.
Syracuse Pottery Co.
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Best Pot in the Market



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Roller bearing, self-feeding device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.

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and GREENHOUSE PUTTY a Specialty.
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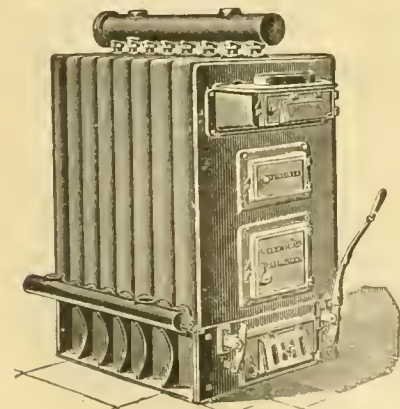
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FOR HOT WATER AND STEAM.
 Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.
Greenhouse Pipe and Fittings
 Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.
 Horticultural building of every description.
JOHN A. SCOLLAY
 72-74 Myrtle Ave., Borough of Brooklyn
 NEW YORK CITY.
 Established 42 Years
 Mention the Florists' Exchange when writing.

Providence, R. I.
News Items.
 Quiet business and low prices prevail after the holidays and there is nothing new to report in the market. Olney Williams is sick and his brother, Larned, is attending to the greenhouse management in the meanwhile.
 Budlong is building another house. Special mention is due Wm. Hay for his splendid La France violets.
 The officials of Kingston Experiment Station held a special meeting at the State house on Saturday, to which the florists generally were invited to take part in the discussion as to what is most needed in the way of greenhouses. The opinion was that \$15,000 would be required for the purpose, and the board signified their intention of petitioning the Spring session of the Legislature for that amount. After the meeting the gentlemen were entertained at dinner at the Wellington.
 C. S. MACNAIR.

San Francisco.
News Notes.
 Charles Shellgrain, one of the Sievers-Boland Company's salesmen, who hails from the East, is in hospital suffering from an attack of pleuropneumonia.
 G. B. Antonini, vice-president of the Art Floral Company, has entered into copartnership with Mr. Culligan, and will operate the old stand of the concern named, having succeeded G. B. Jones & Co. The title of the new concern is Culligan & Co. Mr. Jones, who was reported recently as having purchased the Art Floral Company stand, will, it is said, retire from the business. He was the longest established florist in this city.
 ALVIN.

L. WERTHEIMBER & CO.
 Dealers in
 Foreign and Domestic Specialties
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 A SPECIALTY
 Window Glass. Painters' Supplies.
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 Packed in small crates, easy to handle.
 Price per crate
 150 2 1/2 in. pots in crate, \$4.88 120 7 in. pots in crate, \$4.29
 150 2 3/4 " " " 6.25 60 8 " " " 8.00
HAND MADE.
 100 3 " " " 5.00 48 9 in. pots in crate, \$3.50
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 Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
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 IMPROVED
Greenhouse Boiler
 33 ERIE ST., CHICAGO

Boilers made of the best of material, shell firebox sheets and head of steel, water space all around front, sides and back. Write for information.

SHEEP MANURE

Pulverized. Free from all Adulteration
 In Bags, \$18.00 per Ton
 Special prices on car load lots in bulk
ROBERT SIMPSON, Clifton, N. J.

ESTAB. 1765
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 No. CAMBRIDGE MASS. L. I. CITY N. Y.
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 wishing to do business with Europe should send for the

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FOR IMMEDIATE SHIPMENT.

THREE SIZES.

8 ft. x 6 ft.....3 rows 10 inch glass
 3 ft. 3 in. x 6 ft...4 " 8 " "
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1 7-16 inches thick.

Of strictly clear Gulf cypress.

These sash are strongly braced, very stiff, light and durable.

PRICES REASONABLE.

Clear heart cypress greenhouse material.

Plans and Estimates Furnished.

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Kalamazoo, Mich.

Items of Trade Interest.

Van Bochove & Bro. will commence at once, if the weather stays favorable, to erect sheds, etc., to prepare the material for their new range so as to be ready for operations at the earliest possible moment. They seem to be impressed with the business possibilities of this section.

The snow scene at the Central Nursery's store made quite a pretty effect and was most creditable to Mr. Cook, the designer. The company is well satisfied with the Christmas business.

Thousands of violets could have been disposed of through the holidays if available at a reasonable price; but our people are not willing to give 75c. for a bunch of violets when they can buy a dozen good carnations for the same figure. S. B.

BRANDYWINE, DEL.—Nelson L. Talley has just completed the erection of five greenhouses, one 120 x 28 feet, the other four 75 x 28 feet each. He has two houses of carnations; Mrs. Frances Joost is the main sort grown and are in fine thriving condition. Queen Louise, Queen, May Naylor, G. H. Crane, Governor Roosevelt and Glacier are also to be found, along with a part house of roses and smilax. Callas, lilies, and a general line of pot plants, are also grown under the care of Henry A. Fitzgerald. Two houses of lettuce are under the special care of Mr. Talley and in fine condition. The Grand Rapids variety is grown with paying results.

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See the Point FULL SIZE No. 2
PEERLESS
Glassing Points are the best. No rights or lifts. Box of 1,000 points 75 cts. postpaid.
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714 Chestnut St., Phila., Pa.

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THE AMERICAN CARNATION

Price, \$3.50

A. T. DE LA MARE PTG. & PUB. CO. LTD.
2 to 8 Duane St., N. Y.

GEO. M. GARLAND
Iron Cutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Cutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

EUREKA GREENHOUSES

Send for catalogue Get the best

Greenhouse Material, Composition Posts

DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

GULF CYPRESS Greenhouse Material

Cut and Spliced Ready for Erection

Hot Bed Sash

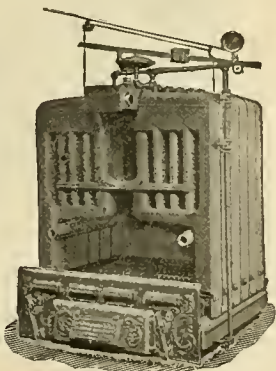
Pipe, Fittings, Ventilating Apparatus

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We furnish everything for Building

Heating Installed

Send for Prices and Catalogue



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"Special" Greenhouse Putty



Made from pure linseed oil and kiln dried whiting, absolutely unadulterated. Works easier than others, therefore more readily applied. The Best Putty for

Quality, Durability and Economy

It costs a little more than other makes, but lasts longer. Try a sample lot and be convinced.

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SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

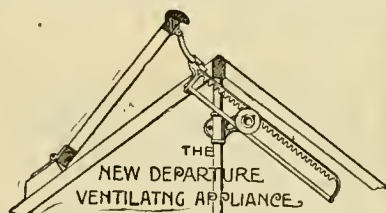
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For GREENHOUSES, GRAPERIES, HOTBEDS, CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.

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COSTS LESS and does better work. Send for Descriptive Price List

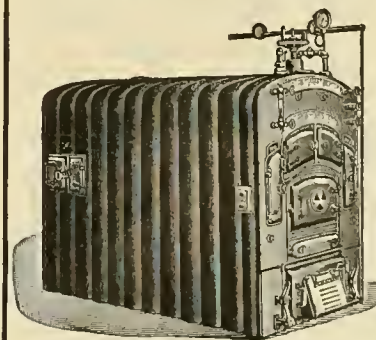
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That's what prominent Florists say of the celebrated

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GREENHOUSE MATERIAL
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FOLEY ventilating apparatus
Galvanized vent sash hinges
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The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.

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CALCATIONS. Rooted cuttings. Write for prices and varieties.
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USE IT NOW.
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For Hot Water or Steam
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Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.

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ESTABLISHED 1844.

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Vol. XIX. No. 2

NEW YORK, JANUARY 14, 1905

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PRICES OF ABOVE SORTS: Dormant plants, purchaser's selection, \$100.00 per 1000; \$11.00 per 100; 65c. for bundle of 5. Not less than 5 of any one variety sold.

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American Beauty	Gloire de Dijon	} 90c. for 5; \$15.00 per 100.
Kaiserin Augusta Victoria	Hermosa	
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Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, horn on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

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2,000 THE PRESIDENT		2,000 MACKINAC	
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2,000 CHRISTMAS EVE	} \$30 per 1000		2,000 LADY BOUNTIFUL
2,000 GOLDEN EAGLE		} \$5.00 per 100	3,000 JUDGE HINSDALE
2,000 GOLDEN EAGLE	} \$40 per 1000		2,000 MRS. PATTEN
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- Lily of the Valley Hamburg Pips, case 2,600, \$24.00.
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- Smilax 35c. per oz.; \$3.50 per lb.
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Gold Medals and First-Class Certificates awarded at principal European exhibitions.
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Seeds in original packets from seedmen throughout the United States.
Full particulars from **SANDER & SONS, St. Albans, England.**
Wholesale Agents for the United States:
Hy. A. DEEEN, Philadelphia, Pa.;
J. M. TROSBURN & Co., Corlandt St., New York;
VAUGHAN'S SEED STORE, Chicago and New York.
Mention the Florists' Exchange when writing.

LANDRETHS' SEEDS

Before placing Your Order elsewhere ask us our prices for choice Seeds

Bloomsdale, Bristol, Penna.

Dreer's New Crop Flower Seeds

The following is a short list of Flower Seeds which should be sown early to make good stock for Spring sales. For complete list see our Wholesale Price List for January, copies of which have been sent to all florists.



Verbena.

	Trade Pkt.	Per oz.
Ageratum Blue Perfection, dark blue.....	\$0.15	\$0.50
Asparagus Plumosus Nanna, true, \$1.00 per 100 seeds; 1000 seeds \$0.75 per 1000 seeds; \$3.00 per 600 seeds		
Begonia Vernon.....	.25	
Grandiflora.....	.25	
Gracilis, rose.....	.25	
Brownia Speciosa Major.....	.60	
Centaurea Candidissima.....	.25	per 1000 seeds
Gymnocarpa.....	.15c.	
Cineraria Maritima Candidissima.....	.15c.	
Acanthifolia.....	.20	.75
Cyclamen Persicum, mixed.....	.40	2.50
Giganteum, white, rose, blood-red, or white with red eye.....	.75c.	per 1000 seeds; \$8.00 per 1000 seeds
Giganteum, mixed.....	.60c.	6.00
Heliotrope, Lemme's Giant, mixed.....	.40	2.00
Ipomœa Grandiflora (Moonflower).....	.15	.60
Lobelia, Crystal Palace Compacta, true.....	.30	1.25
Speciosa, dark blue trailing.....	.15	.50
Gracilis, light blue trailing.....	.15	.40
Nicotiana Sanderæ, the new red-flowering.....	.17c.	per pkt; 7 pkts., \$1.00
Pansy, Royal Exhibition Mixtura, the finest money can buy.....	.60	8.00
Premium, next to our Royal Exhibition the finest mixture.....	.60	4.00
Giant Trimardean, a fine mixture, large flowers.....	.26	1.00
Petunia, Dreer's Superb Double Fringed, 75c. per 500 seeds; \$1.60 per 1000 seeds		
" " Single Fringed.....	.50	.40
Phlox Drummondii Grandiflora, mixed.....	.20	.75
" Large-flowering Dwarf, mixed.....	.30	1.50
" Nana Compacta, mixed.....	.10	.25
Pyrranthum Anreum (Golden Feather).....	.10	.25
Salvia Splendens (Scarlet Sage).....	.25	1.00
" Bonfire, fine, compact.....	.40	2.25
" Burning Bush, very large flowers.....	.30	1.50
Smilax.....	3-lb., \$1.00	.30
Solanum Capsicastrum (Garden Cherry).....	.10	.25
Stocks, Large-flowering, 10-Weeks, in separate colors.....	.40	2.50
" " mixed.....	.30	2.00
" Cut-and-Come-Again, in separate colors.....	.50	2.60
" " mixed.....	.50	2.60
Sweet Peas, 50 of the finest kinds in cultivation. See Wholesale Price List.		
Thunbergii, mixed.....	.10	.50
Verbena, Dreer's Mammoth, white, pink, scarlet, purple or striped.....	.30	1.50
" " finest mixed.....	.26	1.00

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FRESH CROP

- Cocos Weddeliana Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000
- Asparagus Plumosus Nanus Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000.

New Crop Just Received.

STUMPP & WALTER CO., 50 Barclay St., New York

Branch Store 404 East 34th St., N. Y.

Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANT

SEND FOR CATALOGUE.

ARTHUR T. BODDINGTON
342 West 14th St., New York,

Mention the Florists' Exchange when writing.

F.W.O.SCHMITZ

PRINCE BAY, N. Y.

Wholesale Importer and Exporter of

Bulbs, Plants, Roots, Etc.

All Inquiries Cheerfully Answered

Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

Asparagus Plumosus Nanna, 100 seeds, 60 cts.; 1000 seeds, \$6.00.
Begonia, Vulcan and Bonfire, trade pkt., 25 cts.
Cyclamen Giganteum, 100 seeds, 60 cts.; 1000 seeds, \$6.00.
Petunia Fimbriata Grandiflora, trade pkt., 50 cts.; double " " 1.00.
Salvia, Bonfire, trade pkt., 25 cts.; oz., \$2.25.
 Splendens, trade pkt., 20 cts.; oz., 90 cts.
Stocks, Dwarf Ten Weeks, trade pkt., 25 cts.; oz., \$2.75.
Verbena, Mammoth, trade pkt., 20 cts.; oz., \$1.00.
FRESH TOBACCO STEMS,
bale of 300 lbs., \$1.60.
W. C. BECKERT, Allegheny, Pa.
Mention the Florists' Exchange when writing.

HELLER'S MICE PROOF SEED CASES.

Send for Circulare

HELLER & CO.
Montclair, N. J.

Mention the Florists' Exchange when writing.

RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.

W. W. RAWSON & CO.
Seedsmen,
12 Faneuil Hall Square, BOSTON, MASS.

Mention the Florists' Exchange when writing.

EXTRA CHOICE Flower Seeds

List free on application.

FRED. ROEMER, Seed Grower
QUEDLINBURG, GERMANY.

Mention the Florists' Exchange when writing.

WARD'S HIGH GRADE Bulbs & Plants

RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

BULBS

- Lilium Canadense..... \$4.00 per 100
 - " Superbum..... 4.00 "
 - " Umbellatum..... 6.00 "
 - " Rubrum..... 6.00 "
 - Iemene Grandiflora..... 6.00 "
- FOR FORCING**
"EASTER" GLADIOLI, \$20.00 per 1000.
TRADE LIST FREE.
- JOHN LEWIS CHILDS, Floral Park, L.I.**
Mention the Florists' Exchange when writing.

SHAMROCK ...IRISH...

Strong and fine plants. Better order early. \$4.00 per 100; or 60 cts. per doz., by mail.

XXX SEEDS

- Verbena. Improved mammoth, the very finest crop, mixed. 1000 seeds, 25c.
 - Cineraria. Finest large flowering dwarf. 1000 seeds, 50c.
 - Phlox Pumila Compacta. Very dwarf and compact; grand for pots; in finest colors, mixed. Trade pkt. 25c.
 - Alysaum Compactum. The most dwarf and compact variety grown; perfect little balls when grown in pots. Trade pkt. 25c.
 - Chinese Primrose. Finest large-flowering fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 50c.
 - Pansy, Finest Giants. The best large-flowering varieties, critically selected; mixed, 5000 seeds, \$1.00; half pkt. 50c.
 - Petunia. New Star; from the finest marked flowers, extra choice. Trade pkt. 25c.
- CASH.** Extra count of seeds in all packets.
- JOHN F. RUPP, Shiremanstown, Pa.**
The Home of Primroses.
Mention the Florists' Exchange when writing.

JOHNSON & STOKES'

NEW CROP FLOWER SEEDS FOR EARLY SOWING

Ageratum Blue Perfection, dark blue, per 100 seeds, \$0.15	Trade pkt. \$0.25	Oz. \$0.25
Alyssum Little Gem or White Carpet, per 100 seeds, \$0.10		
Asparagus Plumosa Nana, (Greenhouse grown), per 100 seeds, 75c; per 1,000 seeds, \$5.00; per 6,000 seeds, \$22.50		
Asparagus Sprenger, per 100 seeds, 15c; per 1,000 seeds, 75c		
Candytuft, Empees, pure white, .10		.16
Candytuft, Giant Hyacinth Flowered, white, .10		.20
Clematis Paniculate, per lb., \$3.50		.10
Carnation, Marguerite, choice mixed, .20		.75
Centaurea Gymnocarpa, 1000 seeds 15c		.35
Centaurea Gandiissima, " 25c		1.25
Cobaea Scandens, purple, .10		.25
Cyclamen, English Prize, mixed, from show varieties unsurpassed, per 100 seeds, 75c; per 1000 seeds, \$6.00		
Lobelia Crystal Palace Compacta, .25		1.25
Petunia Giants of California, .60		
Petunia, J. & S. Choice Double Fringed per 500 seeds, 75c; 1,000 seeds, \$1.50		
Petunia, J. & S. Giant Single Fringed, .60		
Petunia, Dwarf Inimitable (nana compacta), fine for pots, .25		1.25
Pyrethrum Aurum, .10		.25
Salvia Splendens Bonfire, .30		2.00
Stock, Dwarf Ten-weeks, Separate Colors, .25		2.00
Smilax (New Crop), per lb., \$2.00		.10
Stock, Dwarf Large Flowering Ten-weeks, mixed, .25		1.75

Tested Seeds

of the Highest Quality



Mammoth Verbena Seed, mixed, Per 1000 Seeds, \$0.20	Per Oz. \$1.00
Mammoth Verbena Seed, white, pink, scarlet and purple, .25	1.25
Stock, Princess Alice (Cut-and-Come-Again), Trade pkt. \$0.30	Oz. \$2.50
Thunbergia, finest mixed, .10	.35

THE PERFECTION FORCING CUCUMBER Greenhouse Grown Seed

Pronounced by critical Market Gardeners and the Commission Merchants of Boston and its vicinity as the finest forcing cucumber entering their markets. They attain good marketable size and color, closely resemble the popular WHITE SPINE and possess unsurpassed quality. We have procured the seed of this valuable strain direct from the originator who has arranged with us to dispose of his entire stock by introducing it to the thousands of private and market gardeners who are interested in forcing Cucumbers under glass. In order to give this wide distribution, the seeds will be sold in packages as follows: What a prominent Boston firm says of the PERFECTION FORCING CUCUMBER: "It is with great pleasure that we compliment you as raising the BEST QUALITY of Cucumbers coming into this market, and we think that if all growers of hot-house Cucumbers could have the seed that you use, they would be greatly benefited in the EXTRA PRICE they could obtain for their Cucumbers raised from such seed."—LOWELL BROS. & BAILEY.

JOHNSON & STOKES, 217 & 219 MARKET ST. Philadelphia, Pa. Mention the Florists' Exchange when writing.

BERGER'S SEEDS WILL GROW

ASTER Branching, white rose, Tr. lavender, red, light blue, purple, separate, .10	Trade pkt. \$0.10	Oz. \$0.20	\$0.60
Mixed, .10		.15	.60
Queen of Market, white, rose light blue, dark blue crimson, .10		.20	.60
Mixed, .10		.15	.50
Vick's Daybreak, color of Daybreak carnation, .25			
Vick's Pinty, finest white, .25			
Early Ehrenzollern, like Giant Comet, in habit and shape of flowers, which are twice that of Snowball white, size of Queen of the Market, earliest of all Asters. Pure White, pkt., 25 cts., 1/2 oz. 75 cts. Rose, pkt., 25 cts., 1/2 oz. 75 cts.			
BELLIS PERENNIS, double daisy, Longfellow rose, .25		.75	2.50
Snowball white, .25		.75	2.50
CYCLAMEN, Giant flowered, pure white, rose, blood red, white with red eye, separate 100 seeds 70 cts., 1000 \$6.00. Mixed, 100 seeds 60 cts., 1000 \$5.10.			
LOBELIA, Crystal Palace, .15		.50	1.60
PANSIES, Berger's Neverfail, mixture of finest giants all sorts, all colors, .26		1.00	3.00
PETUNIA, Giants of Calif., ruffled and fringed, pkt. 25c, .50			
PETUNIA, double fringed, 500 seeds, 80c.; 1000, \$1.00, Tr. pkt. Oz. \$0.25		\$2.50	
SALVIA Splendens (Bonfire), Clara Bedman, .25			2.50
STOCKS, large-flowering German, 10 weeks, white, rose, crimson, purple, light blue, blood-red, each, .25			2.50
VERBENA Mammoth, pure white, .15		1.00	
Defiance, brilliant scarlet, .15		1.00	
Roy carmine, .15		1.00	
Mixed, .10			.75
NEW SHASTA DAISIES, ever blooming giants, Australia, California, Alaska, .26			

ASPARAGUS SEEDS

PLUMOSUS NANUS, New Crop, 100s, 1000s, ready February, \$0.60	\$4.50
PLUMOSUS ROBUSTUS, new, 1.00	9.00
DECUMBENS, .60	3.75
SCANDENS DEPLEXUS, especially fine for hanging baskets and cutting, 1.25	10.00
SPRENGERI, 6,000 seeds, \$3.50, .16	.75
KENTIA Belmoreana or Forsteriana, .60	4.00
PHOENIX CANARIENSIS, .16	1.00
PHOENIX RECLINATA, .50	3.00
MUSA ENSETE, 1.00	8.00
PANDANUS UTILIS, 1.00	8.00
COCOS WEDDELIANA, .85	7.00
LATANIA BORBONICA, (Feb'y), .40	2.00

BULBS

BEGONIAS, Tuberosus, single, white, rose, scarlet, red, yellow, orange, separate, \$0.45	\$3.00
Mixed, .35	2.50
Double, separate colors, .95	4.50
CALADIUM ESCULENTUM 5x7 inch, .30	2.00
7x9 inch, .50	3.50
9x12 inch, .85	6.50
CALADIUM, fancy leaved, brilliant colors, named sorts, 1.50	10.00
Choicest, very fine sorts, 1.20	8.00
GLADIOLI, The Bride, pure white, 1000, \$5.00, .10	.60
GLOXINIAS, separate colors, .80	4.00
Mixed, .60	3.00

H. H. BERGER & CO., 47 Barclay Street, New York

Mention the Florists' Exchange when writing.

HOWARD'S ROYAL VERBENA SEED SPLENDOR

We desire to call the attention of florists who raise Verbenas from seed to our strain of Verbenas, which is the result of many years' careful selection to secure size, variety and brilliancy of colors, from vigorous, compact, free-blooming plants.

EVIDENCE OF QUALITY Fond du Lac, Wis., Feb. 2, 1904.

A. B. Howard & Son.—Please send me by return mail three trade pkts. of your Royal Splendor Verbenas seed. Your Verbenas Seed produced the finest varieties of Verbenas I ever saw. E. HAENTZ, Florist, Choice Mixed Colors, per trade pkt., 35 cts. A. B. HOWARD & SON, Belchertown, Mass.

Mention the Florists' Exchange when writing.

Florists' Flower Seeds NEW CROP NOW READY.

Catalogues free on application. WEEBER & DON, Seed Merchants and Growers, 114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

Manetti Stocks

For grafting purposes now ready. Send in your order early.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

Asparagus Plumosus Nanus

We are headquarters for New Crop Seeds. This season's picking. Greenhouse grown, per 100 seeds, 75c.; \$6.00 per 1000. Write for special prices on large lots.

Asters, Queen of Market, for early flowering, separate colors and mixed, 20c. per tr. pkt., 60c. per oz.

Phlox Nana Compacta, Mixed 40c. tr. pkt., \$1.75 per oz.

Salvia Bonfire 40c. Tr. Pkt., \$2.50 per oz.

Verbena, Michell's Fancy Mixed 30c. tr. pkt., \$1.50 per oz.

For complete list of Flower Seeds, see our NEW WHOLESALE LIST now being mailed to Florists.

HENRY F. MICHELL CO., Seed Growers and Importers, 1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

NOW is the time to plant TUBEROUS BEGONIAS for EASTER BLOOMING

They make excellent POT PLANTS and will find a ready sale then.

Write for prices.

HUBERT & CO., Mt. Vernon, N. Y.

N. LE PAGE, Representative.

Mention the Florists' Exchange when writing.

NEW CROP SEEDS For present sowing. Cryptomeria Japonica, Eucalyptus globulus resinifera, Cupressus Lawsoniana, Phlox Drummondii nana compacta, Petunia gigantea, Verbena mammoth, Stocks, dwarf Ten Weeks, trade pkt. 25c.; trade list free. Shellroad Greenhouses, Grange P. O., Balto., Md. Mention the Florists' Exchange when writing.

ANNOUNCEMENT

We beg to announce to our friends and customers that Harry A. Bunyard and Arthur T. Boddington no longer represent our firm, or have any authority to solicit orders or transact business of any kind whatever in our behalf.

CLUCAS & BODDINGTON CO.

R. W. Clucas, President.

812-814 Greenwich Street, New York.

Palisade Nurseries, Sparkill, N. Y.

Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition or

GLADIOLI AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.

Write for Catalogue. ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York

Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

For Present Sowing

10 PER CENT SPECIAL CASH DISCOUNT on orders over \$2.00 for Flower Seeds if the cash is enclosed. (See our advertisement on page 3 of last issue.) This discount does not apply to Asparagus Seed. Cash discount on this is 2 per cent. We are HEADQUARTERS for Greenhouse Grown Seed of

ASPARAGUS PLUMOSUS NANUS

New Crop, Greenhouse Grown Seed, per 100 seeds, 75c.; 250 seeds, \$1.50; 1000 seeds, \$5.00.

WRITE FOR COMPLETE LIST

VAUGHAN'S SEED STORE

NEW YORK, 14 Barclay St. 84-86 Randolph St., CHICAGO Greenhouses, Nursery and Trial Grounds WESTERN SPRINGS, ILL.

Mention the Florists' Exchange when writing.



ASPARAGUS PLUMOSUS NANUS

THE HOLLAND BULB TRADE. 1904.—Now that the bulb trade of 1904 is at an end, we can say more bulbs were exported than in other years. Notwithstanding this, the growers planted more than in 1903; so you can judge that, on an average, we must have had a very good crop last Summer.

The weather is now very unpropitious for the bulbs in the fields—soft weather in Autumn, and soft in Winter so far.

Hyacinths and tulips are putting their tops above ground into the reed-covering, so that the latter will soon be partly taken off the hyacinths. If frosty weather comes later we run the risk of having in Spring bulbs with frozen tops and damaged foliage. If the frost comes very soon, then all danger will have passed.

The Society for Bulb Culture has concluded to hold its usual five-yearly show at Haarlem in March next. At that show we expect to see the best flowers that every kind of bulb can produce. Many foreigners visit the exhibition and those interested from England, Germany, Belgium, France, etc., who try to find out the best for their trade. J. B.

NEW HYDE PARK, L. I.—The seed trade is quite as lively among those that furnish the truckers on this part of Long Island as usual. Last year was, to use their expression, "a fairly good one," and there seems to be a general inclination to plant about the same as in former years. As the potato crop has been a very profitable one the past two years, the truckers are buying stock seed with a liberal hand. The cabbage crop at the west end of Long Island is a back number; it is no longer profitable. The land appears to be cabbage tired and refuses to yield a remunerative crop. Beans will be planted freely, while peas will receive but little attention. Trucking in this section is fast dying out, as the land is being taken up for speculative and residential purposes.

P. J. Christ, the local seedsman, speaks very encouragingly of trade. He reports largely increased business, and that the farmers who own, or can acquire land will increase, rather than decrease their acreage.

WOODS, STUBBS & CO., Louisville, Ky., writing under date January 9, say: The seed business, owing to inclement weather since the first of January, has not opened up as yet, but we are anticipating a large trade from recent inquiries. Onion sets have not moved much as yet. This is due to the very cold freezing weather since the first of January, and few sets have come in. We are anticipating lower prices a little later, as everybody is holding back their sets, and when movement does begin, there will be quite a large number of sets to offer.

It appears to us that the market on the line and orchard grass will remain firm. All the seed of blue grass has been moved out of producers' hands and is now held by cleaners, who have advanced their prices considerably. A few scattering lots of orchard grass, held by farmers, have nearly all been bought up, and there is not any large surplus stock in dealers' hands, hence prices are inclined to advance. Timothy and Red Top remain about unchanged; they are low enough, and we think prices have reached bottom on these items. There is considerable demand for cow peas and millet, and both of these items will, no doubt, be sold at good prices this season. We are having considerable demand for Winter rye and Spring oats for sowing, and they are rapidly becoming an important variety of oats for sowing in the Spring, as the yield is considerably larger than ordinary Spring oats.

The garden seed business promises to be very fair this season, though, as a great many items are in surplus rather than short this year, we are not anticipating high prices, except on beans. From indications and reports we have received, the low price of cotton in the South will induce Southern farmers to go more into diversified farming, and more of the various grasses, clovers, and general farming crops will be sown, as well as considerably more land put out in truck crops.

CATALOGUES RECEIVED

DREER'S GARDEN BOOK, 1905, Henry A. Dreer, Philadelphia.—A comprehensive and valuable catalogue of seeds, plants, bulbs, supplies, etc., charmingly and profusely illustrated. An idea of the extent of this well-known firm's offerings may be gleaned when we state that the catalogue contains of new and rare plants an enumeration filling nine pages; the aquatic department requires ten pages; the garden and greenhouse plants and bulbs, thirty-four pages; roses, ten pages; hardy perennials or old-fashioned hardy garden flowers, thirty-two pages, probably the largest and most complete in the country; and hardy shrubs, climbers and small fruits, twelve pages. The firm has this year selected for its embossed cover illustrations representations of Cactus Dahlia Kriemhilde and Dreer's Giant snapdragons. There are also incorporated in the catalogue attractive colored plates of a collection of the concern's newer vegetables, improved large-flowering scabiosa, Killarney, the new ever-blooming Irish rose, and various Japanese anemones. We would especially direct attention to the list of novelties in plants, which is a most interesting one. This firm was an extensive exhibitor at the Louisiana Purchase Exposition, at St. Louis, its various displays occupying a space of 175,000 square feet, and among the awards it received, as chronicled in the catalogue before us, are the following: Grand prize for water lilies and aquatics, which the board of jurors characterized as "the finest feature in the ornamental gardening department," gold medal for exhibit as a whole; silver medals each for displays of caladiums, Salvia Bonfire, Zinnia Jacqueminot, crimson fountain grass, Tritoma Pfäzleri, petunias and phloxes and ornamental grasses. Other exhibits made at the Exposition by Henry A. Dreer included two beds of cannas of the varieties President Meyer, Jean Tissot and Rubin; two beds of S. A. Nutt geranium; two beds of Stokesia cyanea; one bed of Lantana Craigi, orange scarlet in color; one bed of Dianthus Napoleon III.; one bed of Celosia plumosa Triomphe de l'Exposition, its feathery crimson plumes and bronzy foliage making a rich combination. There is a host of very valuable information in this catalogue. We observe that in its offerings of Japanese irises and tree peonies, the firm adheres to the Oriental nomenclature.

We have also received Dreer's Wholesale Price List (Winter edition) for 1905 of Flower Seeds, Decorative, Hardy, Garden, Greenhouse and Other Plants, Bulbs, Vegetable Seeds, Etc.

J. M. THORBURN & CO., New York.—General Catalogue for 1905.—This firm has this year made a radical departure in the matter of its catalogue covers. In place of the plain, but tasteful, covers of former years, we have the most chaste designs imaginable, formed by an artistic floral tracery for the front and handsomely colored representations of Nicotiana Sanderæ, petunia, and cosmos for the back cover. A colored plate is incorporated of the firm's new potato "Noroton Beauty," with the many favorable opinions on this variety; besides several full-page half-tone illustrations of various vegetables and flowering plants. Some of the novelties offered are: Aquilegia long-spurred, double-flowering hybrids; Campanula amabilis, tuberous-rooted begonia The Bride; several new things in dianthus and calceolaria; the Australian Star flower; single, black-leaved Dahlia Lucifer; new sweet pea, Gladys Unwin; the red Perennial Sunflower; Impatiens Holstii; new Salvia splendens, golden blotched foliage; new star primula, new yellow-flowered spotted leaf calla, a cross between A. Adami and A. Elliottiana, flowers pure bright yellow, with black-purple blotch at base. The catalogue has been most carefully prepared. Especially valuable are the tables of plants, showing time of flowering, hardiness and duration, color, height, etc., with information as to methods of culture. The list of Insecticides and Remedies for Plant Diseases is also very serviceable. As recently announced in these columns, J. M. Thorburn & Co. were awarded two Grand Prizes at the Louisiana Purchase Exposition at St. Louis—one for seeds and another for vegetables grown from the firm's seeds.

IOWA SEED COMPANY, Des Moines, Ia.—Annual Catalogue, 1905, being the thirty-fifth year of issue. A colored plate is given of the firm's Big Four that "make Iowa the leading corn State"—Golden West, Iowa, Silver Mine and Farmers' Reliance. The McKinley Day Collection of carnations, including Improved American Flag, Prosperity, McKinley, Gold Standard and Governor Roosevelt has been selected as a front cover illustration, while representations of various vegetables and fruits, including Majestic Tomato, Golden Nugget Tomato, etc., form the back cover. A long list of novelties in farm, flower and vegetable seeds is furnished.

F. A. MILLER, San Francisco.—Wholesale list of Tree and Shrub Seeds, Conifers, Palms, etc.

A. N. PIERSON, Cromwell, Conn.—Wholesale Trade List of Roses, Carnations, Chrysanthemums, Palms, Ferns, Easter Plants, Lily of the Valley, Etc. Illustrated.

J. M. THORBURN & CO.

have been awarded

Two Grand Prizes

at the

ST. LOUIS EXPOSITION!

We have been officially notified that we have been awarded the

GRAND PRIZE

(The highest possible honor)

for the collection of

Vegetables

grown from our seeds

and another

GRAND PRIZE

for our collection of

Seeds

OUR SPECIAL PRICE LIST FOR FLORISTS is now ready and will be mailed on application.

It contains the finest selected stocks of flower seeds for florists, such as Asparagus Plumosus Nannus, Cinerarias, Calceolarias, Cobaea scandens, Cyclamen giganteum, Double Daisy, Myosotis alpestris, Lobelia, Nasturtium, Pansy, Primula Chinensis, Primula stellata, Salvia splendens, Stocks, Sweet Peas, also

Nicotiana Sanderæ

In original packets \$1.75 per dozen; \$11.00 per 100

Bulbs for Spring Planting

Tuberous Begonias, Amaryllis, new large-flowered Japan Iris, Lillium auratum and Melpomene, etc., etc.

We are offering this year the

GREAT NEW POTATO, NOROTON BEAUTY

The most valuable ever introduced. Full description and the opinions of eminent authorities who have tested it are given in our catalogue.

J. M. THORBURN & CO.

Seed Growers and Merchants

36 CORTLANDT ST. NEW YORK

Over 100 Years in the Business

Mention the Florists' Exchange when writing.

DREER'S OFFER of Seasonable Forcing Plants



AZALEA

Madame Van der Cruysen

To close out quickly we offer a fine lot of this most saleable of all, at import prices. Speak quickly if you want them.

12 to 14 inch crowns, \$6.00 per doz.; \$16.00 per 100
 14 to 16 " " " 7.60 " " 56.00 "
 18 to 20 " " " 2.00 each; \$21.00 per doz.

AZALEA MOLLIS

An unusually fine lot of well-budded plants 16 to 18 inches high. A plant that is rapidly gaining favor for early and late forcing; it is profitable stock for the retailer to handle, as it can be grown at a minimum cost for heat and labor. \$4.50 per dozen; \$35.00 per 100.

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Strong, shapely, two-year-old field-grown plants, suitable for 6 in. pots.

Gracilis Rosea, \$1.00 per doz.; \$8.00 per 100
 " Lemolnei, 1.00 " 8.00 "

FORCING LILACS

Charles X and Marie Le Gray

A fine lot of pot-grown plants, well set with buds and in primo condition for forcing, \$6.00 per dozen; \$45.00 per 100.

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For a late Easter will fill a vacancy where Azaleas can not be retarded; they are becoming more popular every season; you will find it profitable to try these. We are carrying an extra large stock of bushy, well-shaped plants, covered with buds, 16 to 18 inches high, \$9.00 per dozen; \$70.00 per 100. 20 to 24 inches high, fine specimens, \$11.00 per dozen; \$90.00 per 100.

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The most valuable bedding rose yet introduced. A plant which will be in strong demand for a long time. We offer good plants, suitable to use for stock plants, one-year field-grown, suitable for four-inch pots, \$5.00 per dozen; \$35.00 per 100; \$300.00 per 1000.

GERANIUMS

1000 Mme. Sallerot, \$2.00 per 100, from 2 in. pots.
 Dracena Indivisa, 3 dozen, from 8 in. pots, \$9.00 per doz. All in good healthy condition.

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 Asparagus Plumosa Nanna, Extra heavy, 2 in. 2c., \$18.00 per 100; 3 in., very fine, 4c.; Sprengeri, 2 in. 2c. Abutilon, 4 vars., 2 1/2 in., 3c. List below, ROOTED CUTTINGS, prepaid, Ageratum, Gurney, Pauline, 60c. per 100; Salvia Splendens, Bonfire, Silverspot, 9c. per 100. Fuchsias, 6 best vars., \$1.25 per 100; Heliotrope, \$1.00 per 100; Double Petunias, 10 finest, \$1.00 per 100; Hardy Pinks, 7 sorts, some ever-bloomers, 75c. per 100, \$7.00 per 1000; Rex Begonias, R. C., 16 sorts, mixed, \$1.10 per 100. Alternanthera, red, yellow, R. C., 50c. per 100. \$1.60 per 1000; Vinea, variegated, 90c. per 100.

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ASPARAGUS
 Plumosa Nanna, fine plants from 2 1/2 in. pots, \$3.00; from 3 in. pots, \$5.00; from 3 1/2 in. pots, \$8.00 per 100.

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Per 100
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 Mme. Sallerot, R. O..... 2 00
 Ivy Geranium, R. O..... 1 80
 Lagerström, new dwarf, 7 varieties..... 1 25
 Trailing Lantana, R. O..... 1 25
 Genista Fragrans, 4 in., large..... 8 00
 Genista Fragrans, 4 in., second size..... 6 00
 Strobilanthes Dyerianus, strong, 2 1/2" diam. cut..... 1 50
 Gazania Splendens, R. O..... 1 50
 Ageratum, 3 varieties, R. O..... 1 75
 Cuphea, clear plant, R. O..... 7 5
 Salvia, dwarf and tall..... 1 00
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ORESCO AND SNOW QUEEN

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Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

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Clematis Coccinea.

When the scarlet clematis first came to the notice of the public it was greatly prized on account of its color, a scarlet one of this popular class of climbers being unknown and unthought of before. It is now in many collections, but in not nearly as many as it should be; it is so attractive when in flower. This clematis is one of the herbaceous species, and it is good for it that it is, for being a native of Texas it is improbable it would be hardy in the Northern States if of a woody nature. As it is, it dies to the ground in Autumn, reappearing with the return of Spring, just as *Passiflora incarnata* and other southern plants do. And every year adds to the vigor of the vines.

The seeds of this clematis are not hard to procure from southern nurserymen. Sown in late Winter, in boxes, and kept in a shady place, in a greenhouse, they vegetate in a few weeks, and in this way a good supply is soon secured. When the vine is planted outdoors, it becomes very vigorous as the years pass, making shoots ten feet in length, which its scarlet flowers greatly adorn.

Shade for Evergreens.

These notes are being written January 5, and already the sun sets 10 minutes later than it did a few weeks ago; from now on it will lengthen its minutes every day. It is from this time on we have to look to our evergreens, to see they are shaded as well as possible, for it is the sun and the glaring light that do the harm in Winter. What seemed to me an ideal contrivance for protecting evergreens was seen a few days ago. A gardener had utilized some packing cases he had received from a nursery. These cases were about seven feet in length by two feet in width. The covers were thrown aside and one end had been taken out of each. A box was then set on end to enclose an evergreen, the end of the box from which the end piece was removed being on the ground. In this way the evergreen was enclosed on three sides and on top, with one side open. The open side faced north. The whole object was to keep the sunlight out, not the cold or the wind particularly. The contrivance seemed to me an excellent one. The evidence to be met with every year of the loss of evergreens in sunny places and the safety of the same species when in the shade, is warrant for believing that this gardener has hit on the right way. Some may think that he might as well have boxed up the whole plant by nailing on the cover, but he thinks not, that too close boxing or bundling up in straw makes the leaves tender; and, in fact, he simply believes that shade is all that is required, and I agree with him.

The application of this belief in the providing of some shade from the sun to all evergreens liable to suffer, will be in order on the part of all those who have faith in it. All broad-leaved evergreens suffer at times. It is not a question of hardness as much as of exposure. The native rhododendrons and kalmias of our mountain valleys lose their foliage just as foreign sorts do when away from the shade, shelter and moisture they meet with in their natural homes. Yews and Arbor vitas suffer, so do euonymus, skimmias, evergreen privet and like plants. The one who has the greenest foliage, and therefore the most salable plants in the Spring, will be he who keeps the foliage in the shade and who helps to retain moisture in the soil by mulching the ground with straw or with forest leaves.

Golden Irish Yew Cuttings.

This season of the year, its first month, finds those who propagate the various evergreens busy putting in cuttings. Among the first to be made should be those of the various yews, as these take more time to root than do those of the nature of retinisporas. The yews are among the first propagators touch, as they root slowly and are not fast growing. But put in now, that three months or more of Winter, or greenhouse management, is before them, they should root nicely by Spring. If not crowded too thickly in the cutting boxes, the rooted plants can remain in these a whole season, and this is the more practicable if when the cutting boxes are being filled a little good soil be first put in, to be followed by the sand to receive the cuttings. Should the cuttings be well rooted by Spring many consider it good policy to pot them singly, in small pots, summering them plunged in sand in an open frame, as they become stronger than if undisturbed in their cutting boxes. This applies to all evergreens propagated in this way.

The golden Irish yew is a particularly handsome variety. As a matter of taste, I do not think anything surpasses in beauty the dark green of the type, but there are many who become enraptured over the beauty of the golden tinted variety, and of all golden ones. And, without question, when their young growth is nearing perfection in Spring the gold and green contrast is charming. It is so beautiful that on many large estates whole beds of these golden evergreens are set out, each bed forming a picture as

greatly admired as many a one of flowering plants would be.

Yews sometimes lose their foliage in their southern sides in Winter, but are rarely hurt further; and there are many fine specimens of them on the grounds of our older residences.

Growing Small Nursery Stock.

The question is often asked one nurseryman of another whether it is not possible to grow small nursery stock from cuttings and from seed, as cheaply in our own country as it is in Europe. As none of us like to say we cannot do a thing as well as anyone else, the answer is generally that we can do so. Yet in spite of all that is said and done, done by Congress in the way of duties, too, it is beyond question that we do not produce here anything like the quantity we need, and the inference is, that the imported stock is a good deal cheaper than our own would be were we to raise it. Many of the European countries are largely interested in the growing of this class of stock for our market. Take the case of shrubs, for instance. The cuttings are set out in narrow rows, and are all hand hoed and tended by hand, not harrowed and cultivated by horse power as here, as I am informed. The cost of labor is so little in Europe compared with ours that with all the manual labor placed on the production of such stock the cost is far below what it is here, hence it is to be supposed that there will remain for some years the large field for foreign nurserymen in this country that there is to-day. Were one really desirous of trying the growing of such stock here he could not hope for successful competition growing them in narrow rows and tending them by hand labor. Labor is too high, costing a good deal more to cultivate per row than were the rows set further apart and horse power used. The plan almost all nurseries adopt, is to have the rows wide enough for a horse to pull a harrow through. Following the harrowing are men with hoes to take out weeds between the plants, which the harrow could



NEW BULB WAREHOUSE OF ARTHUR COWEE, BERLIN, N. Y.

not reach. Land is cheap here, far cheaper than it is in Europe, and it is solely a question of the cost of labor. That this cost to the European nurseryman must be very little is shown by the fact, that even with all the extra time and care which hand labor entails over the use of horses he is still able to sell his stock here, to a good profit, or he would not do it. Instances are occurring every day of a nurseryman dropping the growing of this or that article, not always because it does not pay, but because he can import it cheaper than he can raise it, and can devote his time to growing something that will pay him better.

There are certain lines of stock which the European nurserymen can grow to good advantage under their system of cheap labor and economical ways of working. It is better they should continue doing so rather than that wages should be lowered here. The American wants to live and dress on a plane low wages wont permit of, and we all want him to live so. Let us pay good wages, even if it does mean that the European can beat us in producing some stock. There is room enough for all. JOSEPH MEEHAN.

THE HAMILTON TREES IN NEW YORK CITY.—Major General Alexander Hamilton, of Tarrytown, N. Y., writes to the New York Herald as follows concerning these historic trees: "There need be no question as to the thirteen trees planted on the Grange, late residence of Alexander Hamilton. I, the eldest grandson, made the Grange the home of my leisure hours when a boy and young man. My grandmother told me that the trees were brought by my illustrious grandsire from Mount Vernon—little whips tied under his girdle—upon his last visit to General Washington, and planted by him southeast of the house."

DANSVILLE, N. Y.—George W. Whitney, for many years associated with the George A. Sweet Nursery Company and the C. W. Whitney Company, two of the largest nurseries of Dansville, has decided to sever his connection with the Dansville firms and move to Chicago. As president of one of these firms and vice-president and general manager of the other, Mr Whitney has been prominent in the business interests of Dansville during his stay here of fifteen years.

VEGETABLES UNDER GLASS.

We have passed through the most critical period as regards the forcing of Winter vegetables. After the turn of the season everything seems to grow away more freely; and whoever has made a success of Winter-forcing up to this date can congratulate himself, and be reasonably assured of a continued success to the end of the season.

Every up-to-date grower will have a notebook and make notes of the different varieties which have done best with him. It does not matter how much we knew last season; we can still improve on our knowledge, as each year comes around.

Tomatoes.

Everyone must admit that vegetable forcing is interesting work. What is more effective than a fine house of tomatoes, say at Christmas time; and, I may ask, more profitable, providing they are solid, high-colored fruits? Several varieties have been recommended for forcing purposes, but I have decided, after testing the majority of them, to secure a good strain of seed of the old standby Lorillard, which, I consider, stands pre-eminently at the head for forcing purposes. I well admit Stirling Castle, for instance, will produce quite a number more fruits in the same space; but when it comes down to a basket of Lorillard for the market against a basket of any of the others, my preference is decidedly in favor of Lorillard.

A house of tomatoes, planted now, when there is a demand in the Spring, should make a paying crop. The vines from now on will grow fairly quickly, and, having more sun and light, it firms them up, putting them in a condition for a heavy crop. However, we must not neglect to keep on a crack of air after the temperature goes above 65 degrees.

Cauliflower.

I do not know of any vegetable that is more improved by being grown under glass than the cauliflower, more especially when cultivated in solid beds. Cauliflower, when grown on raised benches, is apt to come under-sized, or often what we term "buttons," which are comparatively useless. But with solid beds we do not experience this trouble, that is, providing, of course, the plants have not received a check at any time during their growth. Probably one of the principal factors in producing good cauliflower heads is water. Assuming the beds have good drainage, which they should have, cauliflower should have a liberal supply of water at all times. Never allow the plants to suffer for the want of moisture from the time the seed is sown until matured. Everyone who has grown this crop is aware that it takes a fairly rich soil to produce good heads; and, without a question, when growing in good soil, nitrate of soda two or three times is a wonderful help, not only to increase the size, but also to hasten maturity—certainly a point that should not be lost sight of. I have been growing here principally First and Best, a splendid variety for forcing, with heavier heads than those of Snowball, and taking about the same space. True, in growing this crop, unless one has plants in 4 or 5 inch pots ready to set as the others go off, there would be some time to wait for another cut; but keeping up a succession in this manner is a great help.

Lettuce.

From now on, for anyone who needs an extra fine heading lettuce Big Boston will fill the bill; but for the short days I prefer Boston Market, and in the glass-house, of course, Big Boston will need more room, although for Spring use it is hard to improve on Big Boston.

Beans.

Each year I generally try something different from the preceding one in the line of forced vegetables; still, usually, on a small scale; then if it is a failure there is not much lost. On the other hand, if a success, so much valuable information has been gained. I have to thank Weeber & Don, New York, for the valuable information gained this Winter as to a variety of bean for forcing, viz., Black Valentine—remarkable for its quick maturity; also heavy cropping qualities. I would advise anyone, another season, who does anything in the line of forcing beans, to give Black Valentine a trial, feeling sure they will be more than pleased with it. It has a round green pod, is solid and meaty, also keeps cropping for some time. I think highly of it as a forced bean, and it strikes me as being equally valuable for outdoors. However, I can tell better about that after this coming season is over. WM. TURNER.

Arthur Cowee's New Bulb House.

Our illustration shows the new bulb house which Arthur Cowee, of Berlin, N. Y., has just completed, having storage capacity of 18,000 bushels. This, together with his houses numbers one and two, furnishes him with a total storage capacity of 26,000 bushels.

TO ESTABLISH NURSERIES IN CUBA.—The Griffing Bros., of MacLenny, Fla., contemplate establishing a nursery in Cuba. The land lies near the Palm Grove plantation, and they have a private wharf which will greatly help the shipping facilities.

The Retail Trade

Chicago Holiday Business.

A summing up of the trade here for the two weeks embracing Christmas and New Year's, shows, without doubt, the largest volume of trade ever done in retail lines during that period. More stock of all kinds was handled, with the exception of trees. Holly was in brisk demand, and if more of it could have been obtained toward the last, at a price at which the store men could have seen some profit in handling it, a greater quantity would have been sold, as several stores were short the Saturday afternoon. But at \$10 per case, outlying stores could not make any profit after paying an express charge several times—the usual sum asked for delivery. All stores experienced a heavy call for holly.

Plants have cut into the cut flower business to a great extent during the past few years, and more were sold this year than in former ones. With but few exceptions, all lines of flowering plants were cleaned up at good prices, which left a fair margin of profit for the store men. They were disposed of in different ways—made-up baskets, hampers and singly. There was nothing in the novelty line offered here; but from what was seen at the different growers' places the average quality was superior to that of former years. Flowering plants included azaleas, poinsettias, primulas, tulips, cyclamen, heaths, hyacinths, narcissus, Gloire de Lorraine begonias and Baby Rambler rose, which could be called a novelty, as this year it made its debut in trade. Among berryed plants were celestial pepper, holly trees, ardisias and aucubas. Prices realized on these were the same as in former years.

ORNAMENTAL GRAINS—BLEACHED WHEAT.—In the protests of M. Rice & Co., against the assessment of duty by the collector of customs at the port of Philadelphia, one of which relates to sheaves of wheat classified as manufactures of grass under paragraph 449, Tariff Act of 1897, which were claimed by the importers to be free of duty under paragraph 566 or 617, relating to crude grasses and other vegetable substances, General Appraiser McClelland renders the following decision:—" * * * Samples of the wheat are before us, and an examination thereof bears out the collector's report that it has been bleached by chemical process; but we are not satisfied that the collector's classification was warranted. On the contrary, we are satisfied that it was erroneous. That the wheat was submitted to a process of manufacture is not open to question, but that such process made it either a manufacture of grass or a manufacture of wheat will not, we think, be seriously contended. The stalk of the wheat is in the exact form in which it was cut; even the kernels remain as they were formed by nature, the only change being in the color.

"Paragraph 449 under which classification was made contemplates articles manufactured of or from bone, chip, grass, etc., whereas the most that may be said of the wheat in question is that it is an article manufactured.

"We are without evidence in these cases as to the use to which the wheat involved is applied, but it is similar to that which in other cases before the board has been shown to be intended for decoration at funerals, and therefore think that it should have been classified under the provision in paragraph 425 of said act for 'artificial or ornamental feathers, fruits, grains, leaves, flowers and stems or parts thereof, of whatever material composed, not specially provided for.' The protests are therefore overruled in all respects without affirming the action of the collector."

Work in the Herbaceous Department.

With the ground covered with snow and freezing weather, there is apparently not much to be done among the hardy perennials, yet, to a certain extent, the success of next season depends a good deal on the preparations and plans made now.

The snow came rather suddenly, possibly before all the covering had been done; if so, this work should be completed as soon as the snow melts. So far the plants are quite safe, as the snow is equally as good, if not better than a covering of manure in preventing the detrimental action of the frost. Most of the damage is done in February and early March when the plants are subjected to alternate freezings and thawings.

If it has not already been done, advantage should be taken of the first mild spell in the weather to lift those plants it is intended to propagate by root cuttings. They should be kept in a cool place where it does not freeze until such times as they are wanted. If the roots are exposed very long to a dry atmosphere they lose a certain amount of their vitality. Phlox, Japanese anemones and gallardias are among the most important things that do well propagated in this manner. If there is sufficient stock to allow of it, pieces of root, with an eye, or growing point, make plants much quicker than blind pieces of root, although the latter will form eyes and grow; but it takes a little longer. If care is taken to keep all the root cuttings the right end up, a much more even lot of plants will be the result, than if they be dibbled in haphazard, although a piece of root will form an eye from any portion of the surface. Root cuttings of an inch or an inch and a half will be found to be the best size, and about right for potting into two-inch pots when ready. Set them in the sand so that the top of the cutting will come flush with the surface of the sand.



UNIQUE CHRISTMAS DESIGNS EXECUTED BY WM GRAHAM, PHILADELPHIA

In cut flowers a heavy call was experienced in the down-town districts. There was a greater call for Bride than is usual at this period. Bridesmaid were sold in considerable numbers, they being of an unusually high quality. As is the case at this season, colored stock of all kinds was in greatest favor. Poinsettias went well when of good quality. Liberty roses were in brisk demand at very good prices. Carnations, in colored stock, met with good sales at prices, in most cases, very satisfactory to the store men, ranging from \$1.50 per dozen up, according to quality. Violets had not the call usual at this time, the public preferring something more showy for the same amount of money. The high price charged wholesale, no doubt, deterred the store men from buying violets.

In closing, it can be said that the past holiday trade has proved, in general, entirely satisfactory; and all hope to be entering upon a new year of unprecedented prosperity. R. JOHNSTONE.

A UNIQUE FLORAL DESIGN.—One of the most elaborate floral designs ever exhibited in the Senate chamber at Washington, surmounted the desk of Mr. Burrows, of Michigan, when the Senate convened on January 5. It was a map in flowers of the entire State of Michigan, and was a testimonial from admiring friends as a compliment upon the Senator's re-nomination for the Senate. The body of the state was shown in immortelles and the lakes by mirrors. These were surrounded by a border of roses, orchids and carnations, the whole design being surmounted by the words, "All yours."

English Holly.

Editor The Florists' Exchange:

The imported English holly is becoming quite a factor as a Christmas decorative plant. There is an increasing demand, and for well-berryed plants with good foliage good prices can be obtained.

Unfortunately, the importations do not always arrive in the best of condition, and even if they do get here in good shape, the florist who deals in them runs considerable risk, as it is not an uncommon occurrence for them to lose their leaves prematurely before Christmas, which makes them worthless for decorative purposes for the time being and so entails considerable loss.

The proper time for the English holly to shed its leaves is April and May, when it makes its new growth, so that it ought to be possible to ship and handle it in good shape until long after the holidays.

The opinions of importers and others who have had experience in shipping and handling it would be of value to the trade at large if expressed in The Florists' Exchange. No doubt the consensus of opinion would point out the best way to handle this holly so as to be able to deliver it to customers in good condition. RETAILER.

Christmas Designs.

The illustrations shown herewith represent Christmas designs executed by the Wm. Graham Co., 108 South Thirteenth street, Philadelphia. They were designed by Wm. Graham, the well known artistic decorator, who decorates for all the large balls and social functions in Philadelphia. DAVID RUST.

With the help of an inventory of stock on hand a list of shorts should be made out, then it will be readily seen what seed will be wanted to keep the stock up to the mark. Seed should be purchased now while there is time to attend to it properly; if left until rush of work begins, something will be neglected.

The different seed catalogues that have so far come to hand have not revealed anything very new or striking among the hardy perennials for the coming season; but for all that there are many old and well-known plants that would be new to the best collections, and they are worth trying. A few should be tried yearly, in addition to the standard kinds such as digitalis, campanulas, hollyhocks, alyssums, aquilegias, delphiniums, poppies, lupines, primulas, heucheras, lychnis and such sorts as are usually raised from seed, and that are already on hand.

It is always advisable to sow the majority of perennials as early as possible, so as to get them pricked off into flats ready to harden off in the frames before the pressure of Spring work begins, and preparation toward this end should be made in the way of having soil under cover and flats, or boxes, made in sufficient numbers. This latter are very essential, as nothing causes greater loss of time than to have to go and hunt up a box every time you want to sow a few seeds. A serviceable size of box is one sixteen by eighteen by three inches deep. Three inches should be the maximum depth; if deeper, the seedlings are liable to damp off if over-watered, or during a spell of dull weather. If two strips are nailed on the bottom of the boxes at each end to raise them off the bench, or wherever they may be placed, it will add materially to the lasting qualities of the boxes as well as insure better drainage. ERNEST HEMMING.

FOUNDED IN 1888



Weekly Medium of Interchange for Florists, Nurserymen,
Seedsman and the Trade in general

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Copy must reach this office Thursday morning to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

THIS WEEK'S SUPPLEMENT.

Abies (Picea) Nobilis.

For many years, finding that the firs and other evergreens of the Pacific did not appear in many collections, it came to be the opinion that these desirable evergreens were not sufficiently hardy for the Eastern States. This view does not hold at the present time. In its place exists a belief that it is more owing to an unsuitableness of climate in other respects, and not that our Winters are too severe. At any rate, the subject of our notes is quite hardy; it does not get injured in Winter in the Middle States. Our illustration is of a specimen growing in the public grounds of Washington, D. C., in the Agricultural grounds. There are many fair-sized specimens in the vicinity of New York and of Philadelphia, and these have proved their ability to stand our worst Winters.

Those who have seen this fir in its wild state describe it as being of great beauty and of lofty growth, attaining a height of 200 to 300 feet; and an evergreen of perfect shape, and of such a height would be a grand sight to a lover of trees.

All admirers of trees will desire to cultivate this fir and the many other grand Pacific species, there may be more satisfaction in growing the Abies concolor and its varieties from Colorado. There is no question of the adaptability of these to our climate, as the many beautiful specimens to be seen testify. Both the firs and the pines from Colorado are among the best of evergreens for northern use, as are the junipers and spruce from the same region.

When good roots are secured the planting of firs may be done either in Spring or Fall. If in the Fall, do it early, to have the best success. Late plantings of evergreens are not advisable; trees do not settle well before the severity of Winter overtakes them. When planted in the Autumn, early, a thorough watering is a great help toward success. It carries the fine soil around the roots, solidifying the whole, which is what successful transplanting demands.

JOSEPH MEEHAN.

Society of American Florists and Ornamental Horticulturists.

Department of Plant Registration.

ROSE GARDEN'S GLORY.—Conard & Jones Co., West Grove, Pa., submit for registration, pillar rose, Garden's Glory (pink Mme. Plantier), a seedling from Dawson crossed with Clothilde Soupert. Flowers large, double, rose pink, fragrant, in large clusters; plant, strong grower, hardy, almost thornless. Resembles Mme. Plantier in habit and abundance of bloom.

WM. J. STEWART, Sec'y.

John Seden, V.M.H., the famous English hybridist, has retired from the firm of James Veitch & Sons, with which he had been associated since 1861. Mr Seden has a distinguished record, having many new things in orchids, caladiums, gloxinias, tuberous and other begonias, etc., to his credit.

American Carnation Society.

On Wednesday and Thursday, January 25 and 26, the American Carnation Society will hold in Chicago, Ill., its fourteenth annual exhibition and convention. All indications point to a record-breaking gathering. From the great hold which the carnation has taken in the West, the excellence of the flowers there produced, the extensive areas devoted to the cultivation of the plant, and last, but by no means least, the numerous fine novelties that claim the Western States as their place of origin, an unsurpassed show is sure to materialize, which will, of course, be re-enforced by meritorious contributions from the east and elsewhere.

The exhibition and meeting will be held in the Auditorium Hotel, the quarters provided in which, for show purposes, afford an excellent setting for the flowers. The manager of the exhibition, P. J. Hauswirth, in whose care all shipments should be addressed to the Auditorium Hotel, has had large experience in show matters, is a hard worker and efficient in every particular, and we confidently look forward to his share of the labor being most satisfactorily carried out. He will, we doubt not, be ably assisted in his arduous task, which exhibitors, by conforming to the various rules and regulations set forth in the premium list, will assuredly render less irksome.

Coming at a much earlier date than usual, the result of the exhibition will, as we have before stated, be watched with keenest interest by the carnation men of the country. It is to be hoped that propitious weather will attend the occasion. Secretary Herr has distributed the supplementary premium list, which announces the following additional special prizes: Silver cup to value of \$25.00 offered by Vaughan's Seed Store, Chicago, Ill., for the best fifty blooms of an undissemated variegated carnation—any color. \$5.00 in cash offered by A. Dietsch & Co., Chicago, Ill., for the best undissemated seedling carnation from the State of Illinois, not less than twelve blooms to a vase. \$10.00 cash offered by Baur & Smith, Indianapolis, Ind., for the best fifty blooms of carnation Indianapolis—this vase not to be in Class B. John C. Moninger Co., Chicago, Ill., offer as follows: Fifty crimson—First prize, \$5.00; second prize, \$3.00. Fifty yellow—First prize, \$5.00; second prize, \$3.00. These vases not to be exhibited in Class B. Silver cup to value of \$25.00 offered by The Foley Manufacturing Company, Chicago, Ill., for the best vase of 100 blooms, arranged for effect; foliage of any kind allowed, but no flowers excepting carnations. Open only to retail florists.

The literary part of the program has been well looked after. The papers to be presented and discussed include: "Carnation Diseases," by Professor Hasselbring, of the University of Chicago; "Carnations from a Retailer's Point of View," illustrated with a practical demonstration of effects possible with carnations, by George Wienhoeber, Chicago; "Exhibition Carnations," showing methods of cutting, packing and staging, by Fred Lemon, Richmond, Ind.; and "Cutting, Packing, and Shipping Carnations for Long and Short Distance Shipments," illustrated by practical demonstrations, by C. L. Washburn, Chicago. The question box will doubtless elicit other valuable information.

All in all every member in attendance will as usual be well repaid; and the carnation industry throughout the country greatly benefited by the efforts to be put forth.

It may not be inopportune to call the attention of carnation growers generally to the great and good work which this progressive organization is doing on their behalf—a work that can only be accomplished by men having the best interests of their industry at heart, who freely and unselfishly give of their knowledge and experience for the general good. Endeavor of this character is worthy of, and should receive, the undivided support of every florist who grows or sells carnations. The annual dues are only \$2, and the larger the membership list, the better the work done.

The officers of the society this year are: President, James Hartshorne, Joliet, Ill.; vice-president, Wm. Gammage, London, Ont.; secretary, Albert M. Herr, Lancaster, Pa.; and treasurer, Fred Dorner, Jr., Lafayette, Ind.

The Chicago Florists' Club, the exertions of whose members will contribute largely to the success of the affair, as well as to the delectation of the visiting brethren, is officered by: President, W. N. Rudd; vice-president, J. P. Risch; secretary, Robert Johnstone; treasurer, Edgar Sanders; financial secretary, George Asmus.

An excellent suggestion comes to us from Eugene Dalledouze, of Flatbush, N. Y., that an endeavor be made, as far as possible, to have all the delegates from Eastern points to the forthcoming convention and exhibition of the American Carnation Society, at Chicago, January 25 and 26, travel together en route. If intending delegates from this section will kindly inform us of their preference as to a railroad, the one in greatest favor can be ascertained and made public.

No doubt the interested eastern growers will visit Richmond, Ind., either going or returning, to see the novelties there; and a route that would admit of this being done, might appeal to the majority. Let us hear from you on the subject.

American Carnation Society.

Varieties Registered.

By W. L. Lewis, Marlboro, Mass.

MRS. W. L. LEWIS, color pure snow white; flower well built, on a long stiff stem, and will produce more flowers per square foot than any other white in existence to-day. The flowers measure three inches, are good keepers and shippers, and a burst calyx is something that has never been seen to exist since its origin.

By Baur and Smith, Indianapolis, Ind.

BEATRICE.—In registering this variety last week the color was described as lighter than Daybreak; it should have read "brighter than Daybreak."

Notice to Exhibitors.

Messrs H. Weber & Sons, of Oakland, Md., desire to have it announced that the premiums they offer in the premium list of the Carnation Society for the vase each of Norway, Governor Lowndes and Genevieve Lord scoring the highest number of points, will be awarded to a vase in any of the classes calling for fifty blooms or more, and need not be made a separate entry.

ALBERT M. HERR, Secretary.

Carnation Day.

Sunday, January 29, 1905, is McKinley Day; also known throughout the country as "Carnation Day." It is suggested by the trustees of the Carnation League of America that the day be observed by the churches, the Y. M. C. A., and other religious and patriotic organizations, by having at least a portion of their services on that day appropriate to this memorial. As in former years, there will no doubt be a large call for carnation flowers on this occasion, for which the trade should be prepared. Have you sent your contribution to the McKinley Memorial Fund? H. M. Altick, of Dayton, O., will give you all particulars concerning the fund.

OBITUARY

Carl Miller.

Carl Miller, known widely as the oldest florist in Philadelphia, died on Friday, January 6, 1905, at his home, Sixty-fifth street and Elmwood avenue, aged 91 years. For nearly three-quarters of a century he had been actively engaged in raising flowers for the market, and few men were better known in the trade. He was an Odd Fellow and an old member of St. James' P. E. Church. Four sons and two daughters survive him.

J. M. Kimberlin.

On December 26, 1904, J. M. Kimberlin, seed grower, died at his home in Santa Clara, Cal. Two years ago he had a stroke of paralysis, from the effects of which he finally succumbed. He was born in Virginia in 1828. He was at one time professor of ancient and modern languages in the University of the Pacific, from which position he resigned owing to ill health. Lately he turned his attention to seed growing, building up an extensive business. Seven children survive him, his son L. M. being identified with the Kimberlin Seed Company, one of the largest concerns of its kind on the Pacific Coast.

A Stricken Florist Family.

Fritz Obermeyer, the little son of Gus Obermeyer, florist, Parkersburg, W. Va., died of diphtheria on Thursday, January 5. The circumstances attendant upon the child's death are most distressing. Two other children are ill and only recently the eldest son of Mr. and Mrs. Obermeyer succumbed to the ravages of diphtheria. To make matters worse, a penniless stranger, whom the family kindly offered a home, died Friday, January 6, after a brief illness with typhoid fever. His name was Paul Hannaman, a native of Germany, and a graduate from one of its universities. The sympathy of the community goes out to the stricken people who are necessarily almost isolated from their friends by reason of their residence being quarantined.

California Carnation Cuttings.

Editor Florists' Exchange:

I purchased 1000, of different varieties, with which I had an experience similar to that of C. B., mentioned in a recent issue of your paper. The cuttings were too hard, in my opinion, and as a result, only about 25 per cent. of them grew, whereas, of a batch of my greenhouse-grown cuttings, made at the same time, at least 95 per cent. grew. C. WINTERICH. Ohio.

OUR READERS' VIEWS

(Contributions to this Column are Always Welcome.)

Winter-Flowering Begonias.

Editor Florists' Exchange:

As one who greatly admires the remarkable brilliance of Veitch's Winter-flowering fibrous-rooted begonias, I am eager to support the testimonial recently written in their favor by Mr W. Tricker (page 754 of The Florists' Exchange). Your correspondent observes that they are creating a sensation in England. That requires to be qualified. These charmingly decorative, bushy, free-flowering plants are gaining ground each season. Messrs Veitch, of Chelsea, exhibit them consistently for months at the Royal Horticultural Society's shows in Westminster. The warm crimson glow of the flowers in the dull days causes them to be the cynosure for every visitor. So far I have not seen them used in the florists' shops; but there is time enough for that. For decorative work they will be found to be as indispensable as Gloire de Lorraine. Their blossoms, however, are, in the double varieties, more like the well-known bedder, La Fayette, only bigger. The plants approximate in general habit to ordinary bedding tuberous begonias. It was from this section, crossed with B. socotrana, that they indeed came. No one can do wrong in inquiring after them, and up-to-date men will be well advised in procuring a stock speedily. They are mostly grown in 5 in. and 6 in. pots from cuttings raised in gentle warmth. They enjoy almost the same treatment as that accorded Begonia Gloire de Lorraine. Care must specially be exercised to keep them dwarf and stocky. In long-continued, dull Autumn weather, such as we often have, this is not easy; and they are apt to become a little drawn. There are at least six distinct good sorts, and my favorites are Mrs. Heal, single, brilliant rose-carmine; Winter Cheer, semi-double, rich glowing crimson-carmine; and Julius, semi-double, colored rose-pink.

J. HARRISON DICK.

London, Eng.

Contrastive Conditions of the Boston Market.

Editor Florists' Exchange:

I notice on page 11, of the last issue of your paper, an article headed "Contrastive Conditions of the Boston market. I would be pleased to be put into communication with the author of that article, and would state that I could, no doubt, make him an interesting offer in the way of white carnations. I grow Queen, which is very fine with me.

L. COUSINS, JR.

Concord Junction, Mass.

Editor Florists' Exchange:

Your correspondent, "A Carnationist," in your issue of January 7, rather severely criticizes my review of the market during the Christmas week and tries to insinuate that my reports are not to be relied upon. It may be interesting to "A Carnationist" and also to more of your readers to know that my quotations were made after a very careful comparison and study of the prevailing prices in all the different markets and wholesale commission houses, and that my statements, as quoted by your correspondent, are just exactly as I found matters on the day preceding Christmas. It is doubtful if ever before so many white carnations were left over on a day preceding a holiday in this city. Was not, then, the market "druggy"? Were not white carnations a "glut on the market"?

I do not for a moment doubt the statements of your correspondent when he says he "corresponded with every wholesale florist in the city of Boston" and "also wrote to several large growers," etc. Anyone familiar with the wholesale flower trade in a large city will at once notice the ignorance of your correspondent on how that business is conducted. Did he expect the wholesalers to supply him with the prices of flowers before they saw what quantity they had, or knew the conditions of the market? Is he not aware that many of the large growers do have their products "placed" and "will not even part with a few "to a casual cash buyer who may happen to 'come down the line'? Had your correspondent, who was only an hour's distance away from Boston, sent his buyer to the city on any of the days preceding Christmas, he would have had no difficulty in securing all the white carnations he required, for they were to be seen by the thousand in every market and wholesale house in the city.

On reading the article by "A Carnationist" I concluded that he must be in need of white carnations; and as it is ever my aim to help anyone along in their business if I can, I at once took steps to notify him where he could secure white carnations by the thousand lots at a price less than quoted by me for first-class stock; and, although that is several days ago, up to the hour of going to press his order has failed to materialize.

JOHN W. DUNCAN.

New England Representative Florists' Exchange.

CLUB AND SOCIETY DOINGS

Society for Horticultural Science.

The Society for Horticultural Science met at Philadelphia, Pa., during the annual meeting of the American Association for the Advancement of Science on December 27, last, and had a very successful gathering. There was a good proportion of the membership present, and several important papers were presented, of which abstracts are given below. One of the sessions took the form of a union meeting with the Society for Promoting Agricultural Science, and the addresses of the two presidents were listened to by the combined audiences.

Dr. Frear, for the visiting society, made a comprehensive sketch of the development of agriculture in its relation to biology and chemistry.

The President's Address.

Dr. L. H. Bailey, dean of the College of Agriculture at Cornell, in his address discussed the problem, "What is Horticulture?" He took up the question of the growth of horticulture as a specialized subject. It had originally begun as an offshoot from botany. It was a growing interest and would, in the future, become more and more subdivided. Horticulture joins hands with the plant biologists on the one hand, and with affairs on the other. Horticulture is contributing greatly to our national wealth; it supplies important foods. He felt that the work in the future would be not to develop so much something we can name as something that we can measure. To make better plants and to enable cultivators to improve the plants they grow. Then there was the art side of the subject, covering the whole ground of rural improvement and home adornment. The day must come when each home would have its plant room, not necessarily indoors, just as it now had its library. In the teaching of horticulture in the colleges there must be greater segmentation and the subject would break up differently in different parts of the country, according to the condition of affairs. There were many commercial sides, each of which needed a specialist. Botany has declined to extend its sphere to subjects that come too near to real human affairs, and has left a larger part of its domain uncultivated. Horticulture has seized this territory; it should hold it.

Mendel's Law as Applied to Carnations.

Jesse B. Norton, of the Department of Agriculture, told of some recent experiments that are being carried on there in the breeding of carnations, and exhibited a number of seedling flowers to illustrate his deductions on the application of Mendel's law to the breeding of such. He classified the seedling flowers into three groups as single, semi-double, and double. What he calls semi-double are the typical florists' flowers; the doubles embracing the split calyx, and monster flowers, which an investigation showed, have all the stamens transformed into petals. In the semi-doubles they are not so modified, hence do not burst the calyx. In the seedlings of one capsule all these types are represented in a seemingly regular proportion. Thus the following figures were given as actual records:

double 6	} total 23	double 74	} total 273
semi-double 15		semi-double 147	
single 7		single 52	

Other characters also coincided with these figures as, for instance, the matter of odor. According to the law we should expect to have the progeny of a hybrid separate into the dominant and recessive types in the proportions of 1, 2, 1. This, we find, very nearly approximated by the figures given above. As a suggestion to the practical florist he asks, would it not be well to cross the single and the extreme double types, rather than always selecting both parents from the standard types; as by that method there should be a greater proportion of true florists' type produced; that is, if Mendel's law holds? The work has only just commenced at Washington, and these suggestions were but the inferences drawn from an examination of the results so far obtained.

Breeding Potatoes.

H. J. Enstace, of the New York station, reported some successful results in the breeding of potatoes for increased yield. He showed the possibility of enormously increasing the potato crop of the country by breeding stock for seed. In a field of one variety the yield per hill varied enormously—from 16 to 53 ounces. From 100 hills the 25 heaviest and 25 lightest were selected. The process was continued until 125 hills of each were had. These were duly planted and given good ordinary care and attention. The crops gathered were uniformly in accord with the ancestry. The average yield from the 10 rows heavy seed hills was 362 bushels 15 lbs per acre; that from the light seed hills (5 rows), 339 bushels 10 lbs. per acre—a gain of 23 bushels 5 lbs. per acre of marketable tubers.

Election of officers resulted as follows: President, L. H. Bailey; secretary-treasurer, V. A. Clark; assistant secretary, U. P. Hedrick. W. R. Lazenby is made chairman of the executive committee.

L. BARRON.

(To be Continued.)

THE HORTICULTURAL SOCIETY OF NEW YORK met in the rooms of the American Institute on Wednesday night, January 11, to listen to a most instructive address by Dr. D. T. Macdougall on the subject of "The Origin of Species by Sports and Mutations." There was good attendance, but an extraordinary absence of those who are practically interested in the business of plant production. Dr. Macdougall has followed up the work of Professor De Vries, of Amsterdam, who originated the theory of the mutation of species, and on Wednesday night he told the audience just what it meant, how it was to be observed, and pointed out the practical value in the production of new plants.

It was in 1590 that, in a garden at Heidelberg, a sport of the celandine occurred which had cut leaves and otherwise differed from the ordinary plant. This plant had never been known to appear again except as a seedling from the original one. It was something quite distinct and quite permanent, coming true from seed. That was the first record of the mutation of species. Darwin had his attention attracted to the interesting phenomena of the sporting of plants, and wondered whether in some way that was not connected with the production of new species. He was put off the track of this idea by the persuasions of his friends, especially by Wallace; and further investigation was abandoned along these lines. It was about 1865 that Mendel made public the results of his work on the peas. Then followed the pan-genesis theory of Darwin that each organ on the plant, as it would finally develop, was represented in the seed by a special cell, or rather a gemmule—each leaf, each twig, each separate part was the product of a certain special division of the seed. The speaker paid a high tribute to the methods and to the honest investigations of Darwin. So great was the interest in Darwin and his work that, from that time, until recently, people ceased to study the problems of organic evolution and discussed Darwinism itself. They wrote books about Darwin and later other books on the books about Darwin. It was in 1880 to 1890 that De Vries became interested in the problems that were before the world. He reasoned that the principle of natural selection was too slow to account for the development of new species. His first step was to take 100 plants, native and cultivated, and watch to see what happened. Out of these it was observed that *Oenothera Lamarckiana* did not come true from seed. In 1887 he saw some plants of this in a potato field—thousands of them—some of which were unlike their parents. He gathered seed and sowed it so the next year he had 50,000 seedlings, out of which 334 did not agree with the parents and even differed among themselves. They belonged to ten or twelve types, however, and continuing the work he had some sixteen types after three or four years. By a reference to the plants which Dr. Macdougall had brought with him he illustrated the appearance of 14 distinct types in his own seedlings raised at the New York Botanical Garden. These were very distinct and varied in form of leaf, in size, and otherwise. Some of these had been identified as species.

There were no gradations among them. They did not show connecting links. Out of 100 seedlings, three to five were mutants. The essential points of the mutation were these: That they come off without any connecting types; that they are, so to speak, side steps, and not progressive developments from the parent. The third point—and it was a puzzle to the botanists—were the mutants going to exterminate the parent? It was hardly likely, if we considered the small proportion of new forms. Ninety-five per cent. came true. Figure that the species grows on year by year. *O. Lamarckiana* would yield, say 200,000 seeds. Only 5 per cent. are of new forms, and they may not be adapted to the conditions. So it must take the new plant a very long time to get ahead. That species were developed by this sudden method was pretty clear if we thought of the age of the earth. It is not old enough to have allowed the development of all the species now found upon it by the slow method of natural selection. But natural selection accompanied the saltatory origin of species. New forms were developed, but only such as best fitted the situations survived. The others die off.

One must not think that *Oenothera* is the only plant showing mutations. Discontinuous variation appeared elsewhere as in monstrous flowers, also the doubling of florists' flowers and the singling of those that were double offered evidence of discontinuous variation. If it were wanted to see if a plant were mutating, get a pure species, get pure soil—he used steam sterilized soil—and grow the seedlings where they can remain undisturbed. Look carefully at the young plants and preserve every "unlike" forms; weed out duplicates only, to avoid the charge of destroying the connecting links. This is, of course, the exact reverse of the garden culture practices.

Dr. Macdougall exhibited also a mutant form of the native evening primrose (*O. hiennis*); he had recognized one out of several thousand seedlings saved from the wild plants in the garden—but then, perhaps, he was not keen enough to recognize all the variations. The mutants vary in succeeding generations, but do not vary towards the parent, and the variation is greater in them than in the old species.

In reply to a question the lecturer stated most positively that no permanent alteration in a plant had ever been brought about by conditions of cultivation. That new developments under cultivation were mutant forms and must be so accorded.

LEONARD BARRON.

NEW YORK FLORISTS' CLUB.—The first meeting of the new year, held Monday evening, January 9, augured well for another successful season of club work, there being a large attendance present, and great interest exhibited in the proceedings, which consisted chiefly of the installation of officers, the reading and discussion of various official documents, and the outlining of a plan of campaign for the year. Vice-President Butterfield opened the meeting by re-introducing President-elect Frank H. Traendly, who made a neat and suggestive address. After thanking the members for re-electing him to the office, Mr. Traendly said:

Well-attended meetings, a liberal response to our invitations to all who might have something to show on the nights set apart for special exhibits, good work by the different committees—all these have contributed to make the past year successful. That the same favorable conditions may be with us during the year to come is my earnest hope. The club is in a flourishing condition, and the treasurer's report will show a growing surplus, as the following extract proves: Cash balance, January 1, 1904, \$911.63; January 1, 1905, \$1,226.52.

The membership is at present about 200, of which 147 are in good standing, 32 owe one year's dues and 18 have received a final notice to make good their indebtedness at once. These figures may seem to compare unfavorably with last year's report, but the list of delinquents has been gone over by the Board of Trustees and a good deal of dead wood dropped from the roll. It is proper at this time to say to proposers of new members that the initiation fee of \$3 must be handed in to the secretary with every proposition before a name can be presented to the club.

I recommend a repetition of last year's program to arrange for special exhibitions on stated nights during the year, beginning with carnations at the February meeting. It would tend to increase interest and make these nights still more attractive if we could have a paper read by a specialist on the principal exhibit of the evening.

I hesitate to refer to a revision of the rules governing the committee on award, but I have heard suggestions that the rules might be improved. I think, however, that matter may safely be left with the committee, and if it sees fit to make recommendations, the club will consider them.

The House Committee seems to have made itself indispensable, and a fair appropriation for this year is advisable. I recommend that the committee make arrangements for Ladies' Night for the February meeting and provide proper entertainment. If agreeable to the club, I would suggest that we entertain the ladies again toward the close of the year. One or two illustrated lectures might be arranged for by the Essay and Entertainment Committee during the year.

After some advice to the outing and bowling committees, Mr. Traendly continued: Concluding, I want to testify to the warm support given me by the officers of the club during the past year. The secretary has done his good share, and how much that amounts to is not generally appreciated by the majority of members. His work has been most valuable toward the club's welfare. The treasurer has seen to it that the club's funds have not been idle and the fact that all but a couple of hundred dollars are drawing interest—which amounts to enough to pay two-thirds of our rent—shows with what zeal he cares for our interest. With the continued assistance of these, the other officers, committees and members, I hope to be able to serve you acceptably during the coming year.

Vice-President Shaw was next introduced, and read his "message," quoting from the poets, urging each member to add others to the membership list, advising the use of the question box, and suggesting a night of song, addresses, and recitations by the members. He also said that the New York Florists' Club should go to Washington in August next, there to make no divided or uncertain sound for a wholesale commission man as president of the national society. Secretary Young, Treasurer Weathered, Trustees John Scott, Alex. Burns, and W. F. Sheridan also made appropriate remarks, promising their best endeavor for the club.

On behalf of the Dinner Committee, Mr. Sheridan announced that the popular annual feast would take place at the St. Denis Hotel, Saturday evening, February 4. A competent staff of entertainers in music, song and story, had been secured. Over 40 tickets have already been sold, and the affair promises to be a record-breaker—in keeping with the past year's administration.

Chairman Nugent made a report for the House Committee. The "canteen" had cost but \$33.85 for the year. The committee received a vote of thanks for its economic and excellent service.

The following gentlemen were elected to membership: Robert Simpson, C. H. Totty, John S. Zschorna, Marius Matheron, George Darsley and James Hart, Jr. Proposals for membership were: C. Albert Small, Frank M'Mahon, J. F. Marshall, W. J. Miller, and Clarence Saltford.

Secretary Young read a letter from Professor W. G. Johnson expressing appreciation of the club's endorsement of that gentleman's candidate for the office of Assistant Secretary of Agriculture at Washington; and intimating the Professor's willingness and anxiety to assist in whatever way he could the floricultural interests of the country.

Mr. Young's annual report showed that at the ten regular meetings held the average attendance had been 78.

The house committee received an appropriation of \$50 for "canteen purposes," after which Wm. Duckham extended an invitation to the officers and members to be present at the annual "smoker" of the Morris County Gardeners' and Florists' Club, on Wednesday evening, January 11.

A communication regarding the Hearst Bill dealing with the regulation of Interstate Freight matters was referred to the Board of Trustees.

The resignations of Thomas Young, Jr. and H. Holbrook were received with regret.

It was decided to continue the annual outing; also

to have two ladies' nights as suggested by the president, the first of the latter to occur at the February meeting, which will also be carnation night, when, it is expected, an expert carnationist will be present to address the assemblage.

The report of the Board of Trustees was read by Alex. Wallace, testifying to the correctness of the treasurer's accounts, commending the careful manner in which these had been prepared; urging the enforcement of the by-law regarding the proposition fee of three dollars accompanying all applications for membership, and suggesting, on recommendation of the treasurer, a change in the by-laws whereby all bills for dues will in future be sent out by the secretary. All money for same he received by him, in turn transmitting them to the treasurer, who will grant his receipt therefor. Notice was given of a motion to that effect, the change to date from July 1 next, to be presented by Mr. Butterfield at the February meeting.

President Traendly announced the following committees: Outing—Messrs. W. J. Elliott, H. A. Bunyard, J. Austin Shaw, L. Schmutz, Jr., John Birnie, J. Riemels, C. Schenck, L. B. Craw, and A. H. Langjahr. Legislative—John May, Patrick O'Mara, and Chas. H. Allen. Essay and Entertainment—J. B. Nugent, J. A. Manda, and Robert Kuhne. Awards—Patrick O'Mara, C. Lenker, W. H. Siebrecht, A. L. Miller, John Birnie, Wm. Duckham, and C. H. Totty. Mr. O'Mara desired to decline, owing to business matters engaging his time, but yielded to the pressure of his co-appointees, and will serve another year.

Mr. Wallace called attention to the forthcoming meeting and exhibition of the American Carnation Society, to be held at Chicago, January 25 and 26, which promised to be the best the society has yet held. He said it had been suggested that the Eastern delegates should arrange to travel together if possible; and he would be glad to be notified, by all intending to make the trip, as to their preference for a railroad route.

The meeting adjourned at 11 p.m.

THE TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY held its sixth annual dinner in the Florence Hotel Wednesday evening, January 11, nearly 70 persons participating in the sumptuous repast provided. The room was tastefully decorated for the occasion; among the cut flowers gracing the tables being a fine vase of Victory carnations brought up from New York by Alex. J. Guttman. President Gibson, of the society, opened the post-prandial proceedings by introducing the Hon. George C. Andrews, District Attorney of Westchester County, as toastmaster, that gentleman officiating in a most acceptable manner. The Tarrytown banquet is "strictly temperance," and the honorable toastmaster made some good-natured references to the quantity of water consumed by the diners, and Tarrytown's ability to supply it, all of which were received with much merriment. Sprited addresses were made by Major Bright, ex-Senator McClellan; the latter speaker dealt with "Horticulture," and among other things mentioned that just a century ago the first book devoted to the cult was published, and within the one hundred years intervening some 600 others on the same subject had appeared. Dr. Ely, of Tarrytown, also made a felicitous address, advocating the establishment of a park in the village, and at once, J. Austin Shaw waxed eloquent on Tarrytown's historic renown, its many contributions, through Mr. Pierson, to horticultural advancement, and read the usual poem—this time an old one.

The catching of a train prevented, with regret, further participation in a most enjoyable affair. Secretary E. Neubrand was master of ceremonies and was ably assisted by Messrs. David McFarlane, William Scott, James Smith and others of the members. Several were present from outside societies.

THE MONMOUTH COUNTY HORTICULTURAL SOCIETY held its regular meeting, January 6, when the new officers were installed. Charles Wengert and James Barron were elected to membership. H. A. Kettel exhibited three vases of tulips, which received 90 points; also one vase of freezias, scoring 90; and one vase of lily of the valley scoring 90. George Kuhn exhibited some violets, which received 80 points. Geo. H. Hale had a vase of Euphorbia jacquiniiflora, which scored 95 points. Mr. Hale grows it at the end of a rose house, in a bench, treating it the same as the roses. Its beautiful sprays, with the stems, can be cut six feet long, which makes it useful to the florist for decorative purposes. It is seldom seen in this country, but it is grown extensively on the other side. Wm. Turner showed some very fine cauliflower, which received 95 points. W. N. Campbell, of Vaughan's Seed Store, was a visitor, and made some flattering remarks about the society. Other remarks were made by the retiring president, Wm. Turner; President Hale, Vice-President Williams, Financial Secretary Kuhn and N. Butterbach. The judges of the evening were A. J. Williams, John A. Kennedy, and John Yeomans.

WASHINGTON (D. C.) FLORISTS' CLUB.—The meeting of the Florists' Club last Tuesday, was very poorly attended on account of the very inclement weather; consequently all business was postponed until the next meeting, when it is to be hoped the elements will be more favorable and the attendance much larger.

UTICA (N. Y.) FLORISTS' CLUB.—The regular monthly meeting was held January 5, 1905, in the Maennerchor rehearsal rooms, and was largely attended. It was a musical meeting, and was very much enjoyed. The program included fine selections on the graphophone and singing by Harry Narton, who rendered "Violets" and "Dear Old Girl." John Murphy also gave selections. Among the out-of-town members present were Seward Hakes, Theo. Schesch and Mr. Fries, of Iliou, N. Y.; Mr. Barclay, of Herkimer. Three new members were elected, and three more proposed. At the conclusion of the musical program refreshments were served, and a pleasant social time enjoyed until a late hour. The next meeting, in February, will probably be the largest ever held by the club. It will be the annual carnation exhibition, at which there will be staged all the new varieties of this popular flower, and the latest carnation information will be presented and discussed. One of the most successful and well known carnation specialists is expected to attend and address the florists. The meeting will be open, by invitation, to the ladies and friends of the members. At the close a banquet will be held. With the exception of the annual clambake, this will probably be the most important event of the club year.

QUIZ.

THE MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY held its annual smoker on Wednesday evening, January 11, in the club room, and the event was a very pleasant one indeed. As is well known, this society instead of having an informal dinner for its annual celebration, gives what it terms "a smoker," and provides first-class vaudeville talent to furnish entertainment while the cigars, punch and sandwiches are being enjoyed.

At the opening of the meeting A. Herrington introduced the newly elected president of the society, F. R. Heremans, who immediately announced that, aside from the reading of the treasurer's annual report, the regular business session would be omitted. William Charlton, treasurer, made his report, which showed the society to be in excellent financial standing, with a balance in the bank of \$238.31. The entertainers for the occasion were then introduced and a merry time was spent until a rush for the trains had to be made. Haley and Bond furnished dialogues and musical selections, and T. Thompson treated his hearers to monologues and songs. The entertainment was of the highest order, and was thoroughly enjoyed by everyone present. The celebrated Madison punch also came in for a good share of commendation.

E. G. Hill, Richmond, Ind., sent on a bunch each of his new roses, Richmond and Rosalind Orr English, and the Chicago Carnation Co. sent a bunch of the new carnation Fiancee. E. Brandt also contributed a vase of Liberty roses, all of which helped materially to interest the members. Those who attended from New York were William Neil Campbell, J. B. Nugent, Jr., and S. S. Butterfield.

NEW JERSEY FLORICULTURAL.—The installation of officers took place on the stormy night of the 6th instant—Jos. A. Manda officiating. It was found necessary to order twelve silver cups to fill the awards of last season, and these were promised to be ready for presentation at the next meeting, at which the inauguration dinner will also take place. The society, after discussion, decided to give but four cups as prizes next season for the highest number of marks in any or all departments, instead of dividing into classes for flowers, fruits, and vegetables, as last year, the contest opening with the February meeting. Wallace Warner, of the Willowmead Orchid Houses, was proposed for membership. A demonstration was made by Dr. J. M. W. Kitchen of his "Torrdoor" fuel and heat-saving appliance. Some exceptionally fine white sweet peas were shown by Charles Ashmead.—J. B. D.

THE NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY held the second of its regular monthly meetings on Wednesday, January 4, on the premises of Felix Mense, florist, Glen Cove, N. Y., who has generously granted this as a place of meeting till a permanent one be decided upon. Notwithstanding the inclement weather there was a good attendance, which would seem to augur well for a successful career to this newly organized society. President Harrison occupied the chair. The chief business of the meeting was the adoption of by-laws submitted by the Executive Committee. Some lively discussion followed.—J. F. JOHNSTON.

THE WORCESTER COUNTY (MASS.) HORTICULTURAL SOCIETY.—Secretary Adin A. Hixon has distributed the schedule of premiums offered by the Worcester County Horticultural Society for 1905. It shows that \$1,000 has been appropriated for premiums on flowers and plants, \$350 for fruits, \$650 for vegetables. Vases and other dishes will be provided free to exhibitors. The judges are George McWilliams of Whitinsville, on plants, flowers, etc.; Henry E. Rich, of fruits; Charles Greenwood, of vegetables. Exhibitions will be held on Thursday, March 2, 9, April 13, and May 11. Commencing June 1 there will be exhibitions every Thursday until and including September 28 and October 12 and November 9, 1905.



Asparagus for Name.

(15) HORTUS.—The spray of asparagus sent is of the plumosus nanus variety, and differs much from the culinary asparagus.

Lilies for Easter.

(16) What size should *L. Harrisii* be at this date to be ready for Easter; also *L. longiflorum*. The latter are about three inches high; the temperature at night is fifty degrees. *L. Harrisii* are one foot high. Can they be kept back for Easter. They have started very quickly this year and often have not had over a 40-degree temperature at night.
HORTUS.

—*Lilium Harrisii* that has made two or three inches of growth would be considered just about right at this date to be in for Easter. The night temperature should bring *L. longiflorum* in about right; but it will be a rather difficult matter to hold back for Easter those *L. Harrisii* that are a foot high at the present time.

White Carnation for Summer Flowers.

(17) Which is the best white carnation for Summer flowers? I have Mrs. Fisher, but it is not very good.
HORTUS.

—Flora Hill is considered a good variety for outdoor work, but the best plan would be to procure several sorts and give them a trial, as those that will do well in one section of the country might prove a failure in another.

Chrysanthemums.

(18) Which are the best white chrysanthemums for pots and cut flowers, suitable for funeral work, early and late?
HORTUS.

—The best all round chrysanthemums for the purpose mentioned are Ivory and White Bonnaillon.

Summer Flowers for Funeral Work.

(19) Name some white-flowered hardy perennials and annuals, suitable for funeral work in Summer?
HORTUS.

—Suitable annuals would be stocks, asters, candytuft and Phlox Drummondii, for hardy and perennials, phlox, antirrhinum, veronicas, delphiniums and Shasta daisy.

Tritoma Pfitzeri.

(20) Please inform me how to handle *Tritoma Pfitzeri* roots through Winter; also how to start them in Spring, whether in boxes or open ground.
A. W.

—To keep the tritomas through the Winter, all that is needed is a frost-proof cellar. Pack the tubers in dry sand, and let them remain there until Spring when they can be planted direct into the open ground.

Grafted Roses Dropping Their Leaves.

(21) I have two benches of Bride and Bridesmaid roses planted last June in good fresh top soil, with not much sod, it was not stacked the following Fall, but mixed at planting time with about one-fourth of rotten manure and a goodly portion of bone, and blood and bone mixed. Soil was rather sandy. From the day I planted, about twelfth of June, the plants seemed to have had an excessive dropping of leaves, these turning a mottled yellow and then dropping, even up to this date. I am confident it is not red spider; and I have been very careful with watering. I have seen the same thing happening in other localities where I know the greatest care has been taken to have every detail strictly attended to; and this is not the first time it has happened with me. I think if someone could give a real intelligent explanation of this trouble it would be of great service to many others as well as myself.
J. S.

—Roses will drop their leaves, to a certain extent, all through the Winter, whether the plants happen to be graft-

ed or not; and so long as it is only the older leaves that fall, those that are turning yellow with age, no harm comes to the plants from the loss of them; for it must be remembered that the rose is not an evergreen shrub, and the leaves naturally wither and drop when their usefulness is ended, provided, of course, they are not injured in the meantime by injudicious feeding or ventilating, or by severe attacks of mildew. If the roses referred to in the question are dropping all their leaves, irrespective of age or color, we would recommend that an examination of the roots be made, as such a state of affairs would point to an attack of eel worm, for which there is as yet no real cure, though a very free use of lime will hold it in check, if the roots have not become too badly affected.

A Violet Trouble.

(22) We have double violets in frames. The plants were bought in the North. The leaves soon curled up, and all rotted off in a short time. One-third of the plants are dead. We thought they received all the attention they required, as we have grown violets for years, both in frames and in the house.
E. J. B.

any excessive richness in the soil, and produce better results in the crop of lettuce.

A Rose Trouble.

(24) I mail a box containing roots and leaves of my Bridesmaid roses. Please let me know, if possible, the cause of their acting as they do. I have run the plants on the dry side all Winter; they were quite dry at times. The bed is full of roots. The house is run at 70 degrees in the daytime, and from 55 to 60 at night.
C. A.

—We fail to find any disease on the rose plant, and the only reason we can assign its poor condition to is the evident fact that not enough care has been given to the watering. While it is all right to run roses on the dry side during dull or very cold weather, it must be remembered that at least enough water must be supplied to keep the plants in a healthy and a growing condition, which does not seem to have been done in this instance.

Carnations Dying Off.

(25) I have been growing a white carnation of my own, a seedling, for three years with great success. I had

would also suggest, if another piece of ground could possibly be made available, not to plant the asters on the same spot two years in succession, as there is so much more likelihood of dry rot attacking the plants when that system is practiced.

Carnations.

(27) Can we grow the following carnations in one house with the same temperature; Mrs. Lawson, Queen Louise, or the Queen, Prosperity, Enchantress and Estelle? We have Queen Louise growing now in a house with Mrs. Frances Joost and Prosperity at 52-53 degrees, but it splits very badly with us, and we thought if we put it in with Mrs. Lawson and run the house at 54-55 degrees, it may do better. What is the right temperature for Enchantress, Queen, Estelle, Queen Louise? About how many blooms ought we to cut from 1,600 plants from October 1 to January 1?
A. B. C.

You cannot grow Queen Louise, Enchantress, the Queen, Estelle or Prosperity in the same house with Mrs. Lawson, as the latter should be kept at 56 degrees at night, and ten degrees higher during bright days; and to grow the above varieties at this temperature you would have a soft growth and small flowers on weak stems. But you state that you are growing Queen Louise, Prosperity and Mrs. Joost at 52-53 degrees, and they split badly. Try growing them as near 54 degrees as you can; this will not make them soft, if watered properly, and will keep them from bursting so badly and will be all right for all the varieties except Enchantress and the Queen. These two sorts should be kept at 50-52 degrees. This will give better keeping qualities in your Enchantress and better stems and flowers on the Queen as well.

From your letter I cannot help but feel that your trouble does not come from your temperature alone; it seems as if you have allowed the soil to get too dry before watering, or when watering the soil you did not give it enough to reach the bottom of the bench. Examine the soil with a trowel to make sure of this. Or you might have caused the plants to receive a chill by letting the temperature get too low before starting your fires, or giving too much air at time of raising ventilators. Watch this closely, and I think your trouble will decrease. You ought to be able to cut 12,000 blooms from October 1 to January 1, if the plants have been topped back properly and are not neglected in any way.
C. KNOPP.

Mixing Hen and Cow Manure.

(28) Will mixing cow manure with hen manure cause any of the fertilizing elements of the mixture to escape with the air, such as is claimed to be the case when mixing wood ashes with bone meal? We were about to mix the above-mentioned manures for a mulch, when a neighboring farmer informed us that he had had poor results from making such a mixture, stating that the chemical action resulting caused a large proportion of the plant food therein contained, particularly nitrogen, to escape into the air.
J. F. E.

—While we have no data on the results of mixing cow and poultry manure, we think that it would be an unwise thing to do, and would recommend the mixing with the poultry manure three times its bulk of fresh soil before using as a mulch. The cow manure can always be used alone with perfect safety.

Carnations Daybreak and Eldorado.

(31) J. F. E.—The originator of carnation Eldorado was W. R. Shelmire, Avondale, Pa.; and of carnation Daybreak, W. P. Simmons, Geneva, O.

Sweet Pea Seed.

(32) Kindly give me authoritative information as to whether sweet pea seed grown in Southeastern Pennsylvania is as valuable for planting as California-grown stock.
C. M. W.

—We have no information at hand regarding the quality of Pennsylvania-grown sweet peas in comparison with the California-grown seed. E. A. Higgins, Avoca, N. Y., after carefully testing eastern and western-grown seeds in 1902, says: "The western seeds have, in all respects, and especially in vigor and vine, fully equaled their competitors in the race, and some of them they have far surpassed."



BEGONIA GLOIRE DE LORRAINE

5 ft. 4 in. across, in 6 inch pot. Grower, David McFarlane

(See page 42.)

—The trouble with the violets has no doubt been brought about by improper soil conditions, bad drainage, too extravagant a use of manure, or planting in the same soil that was used last year would tend to the cause. We do not believe, from the description given, that the violets are affected with any one of the well-known diseases of violets, and we think that if the soil conditions are examined thoroughly the trouble can be located and corrected.

Lettuce.

(23) I send you some lettuce plants which are diseased, and I would like to know what the trouble is, its cause and cure. We grow lettuce on the ground, and I sometimes think we put on too much manure. I do not think the trouble arises from not enough ventilation, or too much water, as I have watched those things particularly. The soil in our house is new and has never been used for any other purpose, and it never had a plough in it before.
A. J. R.

—When the lettuce plants arrived here they were very much decayed, but that seemed to be caused by their being packed in an airtight box. We were unable to discover any disease, other than the decay mentioned. From the letter of inquiry, however, we believe that the trouble on the lettuce benches comes from too much manure. Seeing the soil used was virgin ground, the manure could very well have been omitted, or, at least, a very little would have sufficed. We would try now to correct the matter by applying a liberal dusting of air-slacked lime over the surface of the soil, repeating the dusting whenever the lime has become absorbed. This will tend to qualify

7000 this year planted out, and these were in good condition, but as soon as the hot weather came they died off very rapidly, and by the first of September I had only 800 left. These I put in the house, but all went back except fifty plants. The ground where I planted them was sod. I took the sod off and covered the soil with mushroom manure and plowed it under, and on top put old greenhouse soil, and in this I planted the carnations.
M. B.

—While it was a great mistake to take old greenhouse soil and spread it on the land, and then plant young carnations into it, especially if the greenhouse soil had been used previously for carnations, it would appear that the variety is just losing its vitality, and giving out. A number of seedling carnations have gone the same way after three or four years' trial, and there seems to be no satisfactory explanation of this.

Soil.

(26) Will you kindly tell me if it is considered necessary to change the soil in greenhouse benches each year; the chief crop is mignonette. Also, on a strip of land used last year for asters, will it do to use both lime and hen manure for this year's asters?
S. E. B.

—While some florists do occasionally use the soil in the benches more than one year, it is considered poor policy to do so; and wherever fresh soil can be procured, the old should be replaced with new every year, then there is no chance of transmitting any disease from the old crop to the new. Instead of using lime with the hen manure, we would mix the manure with three times its own bulk of fresh soil before spreading it on the land. We

THE WEEK'S WORK.

Timme's Timely Teachings.

Bougainvilleas.

Well-grown and flowered bougainvilleas, especially the Sanderiana variety, are good things for Easter. To grow them well is not over-difficult, but to have them well set with bloom is less easy. The chief requisite here, as well as with all other plants shrubby or hard-wooded, for a liberal yield of flowers, is thoroughly ripened wood. For this reason bougainvilleas are given a good rest from about October until January or February by withholding water and reducing the temperature to as low as 45 or 50 degrees. Although at that time the plants are unsightly things and by no means ornamental, this forced period of semi-ornamentality is necessary if later on a good stand of bloom is wanted and plants then good enough for a king to behold.

The last week of January, or the first part of February, is the proper time to start them into active growth again. The temperature should be gradually raised to 65 degrees and may go higher if the development seems too slow for a right hit at Easter. This, however, need hardly be feared this year, since that holiday is late, and 65 degrees of heat, or even a little less, assures a prettier stand of bloom than may be expected on plants developing their flowers in a higher temperature. Not only will the buds open more fully and evenly, but the fine bracts will also hold their beauty much longer, for many weeks, either on the plant or after being cut. From the time the new growth has fairly started until the flowers are fully out, the plants require a great deal of water and several times daily a syringing, as also the full light and all the sunshine within our power to grant.

Very large plants that have become too bulky and inconvenient for pots or tubs may now be permanently planted into a hothouse or warm conservatory border, where they will year after year produce great quantities of high-grade decorative cut material. Bougainvilleas are propagated from cuttings. If these are taken from the first new wood in winter, placed in a pretty warm propagating bench, kept moist and are properly cared for, over half of them will be well rooted in from fifteen to twenty days. If the old wood is to be used, summer propagation in an outdoor hotbed will give best results.

Mignonette.

Nice 4-inch pots of mignonette always sell well and are often called for at Easter and Memorial Day. Sow the seeds of a good strain now and at once into 4 or 5 inch pots, five or six seeds in the center, of which, if they all come, one or two of the finest plants only are allowed to grow on. When sowing let the pots be not quite full of soil, so that there may be room enough for a little more compost to be filled in after the plants are an inch or two high. Do not be too liberal with water at first, but give the plants all they want when forming buds. The timely pinching in of too forward shoots, and the cutting away of straggling growth, will give form and shape and the plants will stand willingly all the pruning found to be helpful in an effort to obtain plants of a high standard.

If, for the purpose of cutting, a bench of mignonette is wanted, the seeds may then be sown into the soil in the bench, or the bed may be stocked with the small pot-grown plants. The hills should be from 9 to 12 inches apart, and one, two or three strong plants to a hill. Main shoots only are allowed to grow up and all the weak growth at the base of the plants is cut away. For mignonette the soil should be a good, heavy clay, well enriched, and, before sowing the seeds, made as solid and firm as pounding down, or walking all over it, will make it. Give just sufficient water to keep the young plants growing, but use it rather freely when the strong shoots begin to show the first buds, and from then on raise the normal temperature 50 to 65 degrees to at least 60 degrees at night and as high as the full sunshine at early Spring will raise it, kept somewhat in check by an abundance of fresh air through the ventilators.

Stocks and Candytuft.

Both Ten-week stock of the Cut-and-Come-Again varieties as well as candytuft, The Empress, will furnish a good grade of cut flowers, and plenty of them, all through the Spring months, if the seeds are sown now. Sow into boxes and transplant to where they are wanted; or they could first go into 2-inch pots and out of these into the bench. Plant close, say, 4 or 5 inches apart. This is just right for the candytuft and will also do for stocks after the single-flowering plants have been pulled out, which are worthless. I have known old gardeners who could distinguish the single from the double flowering plants when they were only an inch or two high and still in the seed boxes. I cannot do that, and although I tried hard to master the trick and have raised many thousands of Ten-week stocks in my time, I have to wait until the buds, just form-

ing, can be felt before I can positively know which plants to remove and which to leave standing. The usual percentage of singles in most varieties and strains of this good old standby is from twenty-five to forty in every hundred, and growers who raise them in great quantities for their flowers every season always figure on 30 per cent. to be single-flowered and plant accordingly. There is no difficulty in disposing of the crop of blooms at excellent prices if they are well grown. Candytuft is also a good seller, but brings less money. An incredible number of flowers, however, can be cut from a bench for weeks. Neither of the two requires any extra or special attention as to soil or culture, but both are lovers of fresh air.

Smilax and Asparagus.

The seeds of asparagus should now be sown, both of A. Sprengeri as well as of A. plumosus. Fresh seeds can now be obtained. Give the seeds and young plants about 60 degrees of heat and the full light when growing. This is also the best time to sow smilax seed, unless the grower has more confidence in old stock. I prefer to sow every year, and if done now good 2½ or 3 inch plants can be had for stocking the beds in June or July.

Dracaena Indivisa.

Great numbers of Dracaena indivisa are raised and disposed of every year, and, although by no means the handsomest of the tribe, it certainly is a most useful member of this imposing genus of decorative plants. It is the easiest to grow from the seed, quickly attains size and does not greatly mind untoward conditions, caused by ill-treatment or adverse weather. It is, therefore, largely used in the filling of vases, veranda boxes, urns and outdoor groupings of many kinds during the Summer, where its grass-like but graceful foliage lends variety, form and finish to any such open-air arrangements.

This is a good time to start the seeds of this good old plant. If duly attended to as to heat, moisture and potting off, nice little plants will be ready in May or June to be planted into the field. If the land is in an ordinary good condition, the plants will have made good growth by the middle or end of September, when they should all be potted up and removed to the greenhouse. Four and five inch pots will be needed, and the plants, being now of usable and salable size, should, from now on, receive no further shift; none but those remaining on the grower's hands after the season's main plant business is over. They may be wintered over in any cool greenhouse, even in nicely placed single rows under a bench, but should never stand too closely packed. A few extra fine and well-advanced specimens may be selected and placed where they can be seen and a well-done Dracaena indivisa is, indeed, a fine enough subject for any bracket or jardiniere.

Dracaena Terminalis.

There never was a time in the dealings of a diversified plant trade when Dracaena terminalis did not prove one of the most attractive and withal most useful of decorative plants or could not, in some way or form, be made to harmoniously enter into any plant arrangement. Not only the finished, stately specimen, unsurpassed as a jardiniere or parlor plant, always finding favor in the eyes of our most fastidious patron, but also great numbers of the yet small-sized young stock, are utilized by decorator and plantsman in all sorts of plant combinations and never fail to enhance their beauty. Of the innumerable varieties of dracaenas there are a few of more recent introduction, grand and majestic subjects for the conservatory, which, as such, are valuable acquisitions, but do not come up to D. terminalis as plants commercially useful, tractable or profitable.

This dracaena more readily admits of rapid propagation, grows faster, is less troubled by insects, and the variation of its foliage is less bold and yet, with the delicate blending of the rich tints in the coloration, is of a character strikingly beautiful and never out of place; always creating a pleasing effect.

From now on until the end of February, when we have a steady fire heat at our command, is a good time to work up a stock of this, as well as of all those dracaenas belonging to the finer class. Where this is done on a large scale, great quantities of southern-grown dracaena canes will be cut up for that purpose. The best article in this line is grown and shipped here from the West Indies. There is a vast difference in the quality of the canes, a difference discovered mostly too late by the grower. He can tell when they are too hard or too sappy and long-jointed, thus diminishing the percentage of the resulting output, but he cannot know, until long after propagation, the true character of the stock. While the canes may be all of true D. terminalis growth, he may have struck a strain, which, do what he may, will never show any great or decided variegation in the leaves, a goodly number of plants remaining green; or his propagation may result in a lot of exceptionally fine plants, highly colored and brought to a state of perfection with the least cultural effort. Here is a case where we have to rely on good luck.

The canes are cut into short pieces, each one consisting of one or several joints or nodes. These pieces leaving the upper end just visible are placed into the propagating sand. Sawdust or half of that and sand, the other half well intermixed, will give better results than sand alone. In from twelve to fifteen days roots will be sent forth from dormant eyes, and soon top growth will start. After this is far enough advanced, the new plant is carefully cut out, or pulled away from the old stem, and potted up; or the old piece of stem may remain on the young growth and will gradually decay. Any old and lanky specimens of dracaenas or bare-stemmed and disfigured plants can be used for propagation. The top, however, as a cutting is very rarely a success, more often surer to rot than to root; but the stem, as shown above, and especially every piece of healthy root, will help to increase the grower's stock. Dracaenas will live in a comparatively low temperature, but a liberal measure of heat, assisted by a moist atmosphere, are more likely to result in a stand of plants of a high standard. FRED. W. TIMME.

Begonia Gloire de Lorraine.

There is no plant that I know of more valuable for house decoration during the Winter months than the Begonia Gloire de Lorraine, whether it be grown in a hanging basket, 6-inch pot or pots, or pans of larger dimension for specimen plants. The general cry that this plant is hard to grow may be well-founded, providing it is placed alongside other begonias, or even stovehouse plants, and receive treatment which the others will readily respond to; but with a little special care, later," which (is endorsed by me as "cultural heat, Gloire de Lorraine begonia can be grown to a great size.

The plant that is best adapted to our use is the one in the 8-inch pot, with an average size of 24 inches high and 30 inches through. It is almost impossible with the heat at my command to get them in larger pots than 24 inches the first of July, when taken from cuttings, but I find that this is quite early enough, as I have no trouble in getting the plants to the size desired by November.

I place the leaf in the propagating bench some time in January and pot on in thumb pots when rooted; these will throw up vigorous shoots in May, from which I take my cuttings.

When the weather gets warm enough in June they are transferred to the cold frame and placed as near to the glass as possible, being sure that the frame is tight. I shade them from the sunlight and give very little air even in the warmer days of Summer. The sash is never tilted higher than 2 inches at the back. The frame is closed down early in the afternoon, and the shading removed when condensation has gathered thick enough on the glass to prevent burning. When the nights get cool in September, I remove the plants to the warmest house I have, and again place them near the glass, and try to keep the temperature as near 70 degrees as possible at nights until the second week in October, when it is gradually lowered, and they are removed early in November to a temperature of 50 degrees or less.

The first potting is made in a compost of leaf mold, sand, charcoal, and a little loam. As the pots increase in size leaf mold is entirely dispensed with, and cow slips from the pasture lot substituted, increasing the proportion of loam; charcoal can be used in a much rougher state than when potting in the earlier stages. I take care that the ammonia has leaked away from the manure before it is gathered. I consider temperature, humidity, and careful watering stronger factors in the culture of this plant than the composition of soils.

The specimen plant illustrated, measuring 5 feet 4 inches across, was flowered in a 6-inch pot last year and was shaken out and cut back the latter part of May; it was given the same treatment as the rest, and is now in a 16-inch pan. D. McFARLANE.

NEWPORT, R. I.—Mr. and Mrs. V. A. Vanicek sailed on the 11th inst. on steamer Statendam, of the Holland-American line, for Boulogne-sur-Mer. Mr. Vanicek goes, as usual, to purchase nursery stock in France, Holland and Germany. Mr. and Mrs. Vanicek will also spend some time visiting the former's parents and other relatives in Prague and Vienna, returning home about March 1.

Cromwell, Conn.

It is doubtful if any rose, of recent introduction, has become more popular, in the same length of time, than Killarney. Unlike many others, its beauty increases as it opens; each stage of development adds some new charm, and it can be watched for days with increasing pleasure until it is full blown. It has already established a place for itself among lovers of roses and is eagerly sought for wherever known.

Three members of the Pierson family are now established in the florist business in Cromwell, namely: A. N. Pierson, his son, Frank A. Pierson, and his brother, Magnus. The former is, of course, known throughout the country as one of the leading wholesale growers of flowers, palms and ferns. F. A. Pierson has been in business for himself for several years, and has already established a good reputation as a grower of bedding stock, begonias, cyclamen, etc. He has one house, 400 by 28 feet, and will soon begin the erection of another of the same size. He was elected to the State Legislature at the recent November election and now divides his time between the Capitol at Hartford and his greenhouse in Cromwell.

Magnus Pierson, who for many years, was foreman for his brother, built a house for himself the past Summer, 300 by 34 feet, on his place, about half a mile west of the center of the town. He intends doing a general greenhouse business, and marketed a fine lot of chrysanthemums last Fall. He grows carnations, sweet peas, stevia, Asparagus plumosus nanus; and for the Spring will have bedding and vegetable plants.

Wallace R. Pierson, whose contributions to the carnation department of The Florists' Exchange, have made him well known to its readers, is now making an extended western trip, having reached California. He will remain there for some time, then return by the southern route, reaching home some time in April.

Louis Barton, of Stratford, Conn., has accepted a position as accountant and assistant bookkeeper in the office of A. N. Pierson. H.

Buffalo.

News Notes.

From a limited inquiring of retailers, it would seem that the recent holiday trade altogether reached an extent fully up to that of other recent years, perhaps gaining some. At any rate, all generally express satisfaction over the outcome. A good run was experienced at New Year's Day, and the many social affairs continuing freely for some days after gave a nice impetus to business. Of late the calls for flowers for funeral occasions has run lighter than common.

Wm. F. Kasting was in Erie, Pa., on Tuesday of this week.

S. A. Anderson is having an attractive window display of Proserpine tulips; while at their downtown store, Palmer & Son are displaying cut blooms of their Red Lawson carnation in a liberal and telling effect, and in brilliancy most radiant.

C. E. Foss, of the Central Park district, mentions a pleasing trade this Winter, which was augmented materially in orders for plant stocking of newly built private conservatories in his neighborhood.

A call is out for a club meeting for Friday of this week.

Wm. Scott passed through a serious illness during the past two months, but has so far recovered as to saunter outdoors. His recovery is a matter of hearty felicitation hereabouts. VIDIL.

San Francisco.

New Year's trade was very satisfactory, and but slightly inferior to that at Christmas. Since the beginning of the year business has kept up; but prices are now fully 50 per cent. lower than Christmas quotations. The Alex. Mann, Jr., Company made no mistake in providing beyond all other dealers in red bell stock. I saw their invoices for five thousand of these paper bells, and they said: "We have not one left and wish we had duplicated our order."

English Horticultural Notes.

A YEAR OF PROGRESS.—At this period of each successive year it is the custom of most of us to look back upon the actions, the achievements, the pitfalls and the failures (happy those who have none) of the time that has gone, never to be recalled. So far as one examines British horticulture, the keynote throughout is "progress." I have just passed the annual reports of the National Rose Society, the National Potato Society and the National Sweet Pea Society, through my hands, for their annual general meetings all fall in one week. These "English Horticultural Notes" have kept the readers of The Florists' Exchange sufficiently informed on the main actions in the United Kingdom to save any introductory explanations regarding these societies now. The National Rose Society has its prototype in your American Rose Society, and with reference to our doings I would briefly state that in succession to the late revered Dean Hole, who was president, Mr. C. E. Shea, a well-to-do retired legal gentleman, has been elected. Mr. Shea is highly respected, is an enthusiast, is also president of the National Chrysanthemum Society (a unique distinction to be president of two such societies), and was lately upon the council of our great Royal Horticultural Society. The N. R. S. sustained another loss to its renowned membership in the death of the Rev. A. Foster-Melliar, who was author of the well-known practical "Book of the Rose" (Macmillan). Mr. Edward Mawley, another leisured gentleman of refined predilections, is the honorary secretary, and the members of the society have just presented him with an address and a cheque for 150 guineas as a token of their appreciation of his long and loyal service. The Summer exhibition has been held for three years or more in the world-renowned Temple Gardens, London (almost in the heart of the metropolis), but for certain reasons a change has had to be made to the more lovely, though not so quite get-at-able gardens of the Royal Botanic Society at Regent's Park. The change will in no way diminish the great success of the show. The N. R. S. this year held its first Autumn Rose Show, September 20, and this was so conspicuously successful that it may be regarded as established.

THE NATIONAL POTATO SOCIETY deserves to have taken the pride of place in these notes, since our British potato industry is so very valuable to our nation. I recently contributed figures to show our acreage and our annual output, together with receipts. As you know, there has been an unrivaled potato boom in the United Kingdom. At present there is a lull; perhaps the ghosts of ancient bulb speculators have troubled the minds of British potato seed growers! But out of a desire to put a halter on the wild and rife speculation in new seedling varieties with great reputations as croppers and as disease resisters, the National Potato Society arose. It has been astonishingly successful, and all, or nearly all, the renowned growers in Scotland, England and Ireland have come into its ranks, so that now it is exceedingly strong both in money and members. The chief point to notice is that the county and district committees that test the novelties in their various soils and positions all over the country and send carefully prepared reports thereupon, have again been renewed and extended. By having these numerous trial stations it is sought to furnish buyers with data that will guarantee the real merits of the variety. An arbitration board to which disputes can be referred, and so save much unnecessary and, at all events, costly, litigation between raisers themselves, raisers and buyers, has also been added, thus farther asserting the good offices of the society.

NATIONAL SWEET PEA SOCIETY.—After four years' existence this robust youngster is in a flourishing condition. Its finances are good and its work is developing, while an admirable tone prevails. The larger seed firms and the specialists have ably supported the movement from the first, and they must feel the good results that accrue from the extended public love of this annual. The next show in July will be held in the new hall of the R. H. S., London, and a great stimulus is expected by the conjunction of forces. Mr. Percy Waterer, an amateur, has

been elected president in succession to the veteran, Henry Eckford.

BRITISH GARDENERS' ASSOCIATION.—Without unduly boasting, it would seem to show the difference between the unhorticultural mind of the United States (am I correct?) and the exceedingly strong horticultural love that is a British national characteristic when I say that our new trades-union of gardeners (it is called by another name here!) is progressing with unmistakable advances. Deputies have held meetings in the north, south, east and west, and everywhere they have gained fresh alliances, so that before very long it is hoped that 500 members shall have been enrolled, and an executive committee, a paid secretary, and a permanent London office will have become an established fact.

J. HARRISON DICK.

St. Clare Castle—An English Residence.

The illustration accompanying these notes represents St. Clare Castle, one of the prettiest residences in one of the

building I can recall Magnolia grandiflora, Aloysia citriodora, Myrtus communis, Edwardsia microphylla; and not far away, Ilex latifolia, Cistus ladaniferus, Veronica Andersoni, and like shrubs, not all of them hardy in other parts of England.

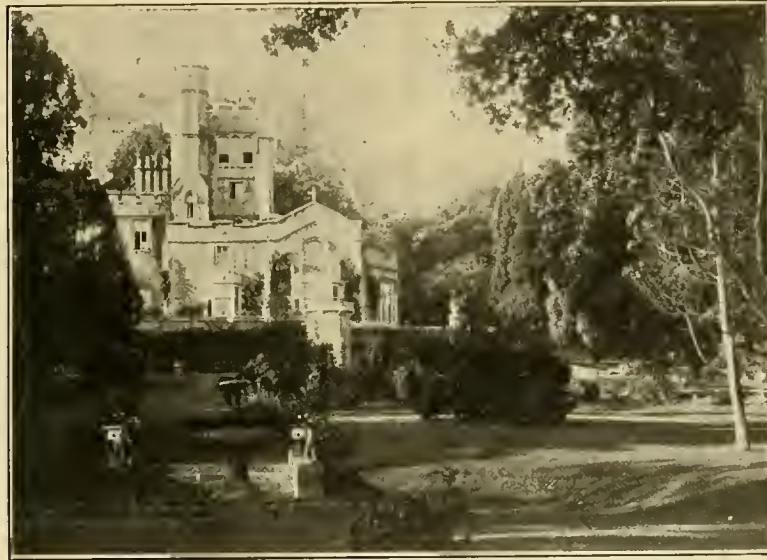
Since those days the ownership has changed hands several times, but it has always been in a Harcourt's hands. Of late years, it has been rented at times, and more than once by an American family, among them Mr. Charles Wheeler, of Bryn Mawr, Pa.

In the old days referred to, "when the family was there," the English flag always floated from the tower. The pole still shows, and well do I remember being often deputized by the butler to go up at sundown and take down the flag.

The grounds slope much as they appear in the picture, by terrace and otherwise to the sea, facing Portsmouth, on the mainland.

It is 47 years ago since I worked there, and 45 since I left England, but I could find my way over the whole place to-day the darkest night out.

JOSEPH MEEHAN.



ST. CLARE CASTLE, ISLE OF WIGHT, ENGLAND

most beautiful estates in the Isle of Wight, England. For over 40 years the entire estate was under the charge of Edward Meehan, the writer's father. He continued in the service of his employer until old age compelled him to relinquish his position, he being then over 80 years of age, but at the earnest solicitation of his employer, Mr. Francis Vernon Harcourt, one of England's gentlemen, he remained about the place, making the grounds his home until his death a few years later. To show the esteem in which he was held, his employer, who died a year or two before him, left him a legacy of \$5,000.

Under my father, this place, St. Clare, is where I got my first horticultural knowledge, being under him from the time of leaving school until about 16 years of age. Looking at the picture before me I can recall many a plant and tree which stood there. Commencing at the bottom, I remember the callas and Nymphaea cerulea, both of which grew in the fountain Winter and Summer. Just above the fountain we used to have, in Summer, in vases, two Humea elegans, most graceful Summer plants. The banks of the terrace above them contained a hedge of the hardy fuchsia, Riccartoni, nearly six feet high, a most lovely sight when in flower. The walk supporting the terrace near the castle was almost hidden by the scolopendrium fern, wallflowers, snapdragons and other adventitious plants. On the left were fine specimens of Cupressus sempervirens and C. torulosa. On the right, near where the two ponds are crouching, were some camellia plants, hardy, of course, and near by a fine specimen of Pinus insignis, one of our rapid growing Pacific Coast species. Not quite in sight, but not far from the camellias, was a fine old specimen of Yucca gloriosa, its ponderous limbs propped up by supports. Close to the

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

ROCKFORD, ILL.—H. O. Hinkley, the florist, is planning to engage in other business as soon as he can dispose of his greenhouse.

WHITE PLAINS, N. Y.—C. T. Snedeker is now operating the greenhouse establishment of his mother, Mrs. Jane S. Snedeker, who died December 2, 1904.

MORGANTON, N. C.—The name of the new concern established here recently, mention of which was made in our issue of December 31 last, page 813, is "Riverside Park Gardens," and not as previously printed.

SLINGERLANDS, N. Y.—Fred Goldring, who has conducted a florist's establishment here for several years, has purchased a place at Ballston Spa, N. Y., to which place he will remove and engage in the business.

LE ROY, N. Y.—The long-established Baxter greenhouses have been purchased by Mrs. Mary B. Morgan, who will carry on the business. Mr. Baxter, who is still suffering from the effects of a frozen foot, sustained at the Lampson house fire, will go to a hospital in Buffalo.

SPRINGFIELD, O.—The Callander Cactus Company has been incorporated for the purpose of propagating and dealing in all kinds and varieties of cacti, orchids and plant novelties. Incorporators are: J. H. Callander, H. L. Callander, William M. Mumm, C. M. Kleinman, L. Bradford. Capital, \$5,000.

FIRMS WHO ARE BUILDING.

DAYTON, O.—J. M. Benzing has bought four acres of land near this city and has erected on it a greenhouse 20x84 feet.

VANDERGRIFT, PA.—J. W. Crisswell has purchased ground and is erecting a greenhouse, which he expects to have under cover in a few weeks.

CANADIAN NEWS

TORONTO.—Business since Christmas has been rather slow, and last week considerable stock accumulated and prices fell toward the end of the week, especially on inferior grades; No. 1 stock held its own fairly well; roses appeared to suffer the most. A good many of the latter are coming in now rather weak-stemmed and not good enough to sell over the counter. The better varieties of carnations are more able to hold up their heads. There is but little demand for plants, but I fancy another week will set things rolling in a much better fashion. Tulips are coming in quite freely, but so far there is but little demand for them. Lily of the valley and violets are both plentiful, the departmental stores being often able to sell them at less than quoted wholesale prices. We have no Greeks here, so I don't know what some of our grovers would do without the departmentals; they appear to be able to dispose of unlimited quantities of stock, if it is only cheap enough.

The annual Toronto carnation show will be held next month and it promises to be the best we have ever had. The cup now held by President Harts-horne, of the American Carnation Society, will be in competition, and as both E. G. Hill and J. H. Dunlop have a claim on it, the fight for it will be interesting. No one has yet held it for two years in succession. The judging will be done by Arthur Ewing, secretary of the C. H. A., so all can be assured of fair play and no favoritism.

The Gardeners and Florists' Association will hold an "at home" next Tuesday, and expect to have a lively meeting. THOS. MANTON.

WAYNESBORO, PA.—Christmas trade was, to some extent, better than last year's, cut flowers selling in preference to plants. Henry Eichholz had a fine lot of Enchantress, Mrs. Lawson and The Queen carnations, also a quantity of Gloire de Lorraine hegonia which sold at sight at a good figure.

Butterbaugh & Sprengle have dissolved the partnership they formed not quite a year ago, the latter going back to his trade as machinist.

Henry Eichholz is working up a large stock of young chrysanthemum plants, having an order for 10,000 from one firm. His pink Enchantress and scarlet Lawson sports are going to occupy his carnation space next year. The Queen is the most profitable white carnation grown here.

MOBILE, ALA.—Holiday trade was exceptionally good, carnations and roses leading in demand for cut flowers. Bride, Bridesmaid, Perle des Jardins and Golden Gate were in sufficient supply, selling at good prices. Not enough reds were to be had. The locally grown stock was far superior to that shipped in, the roses of one local grower being so fine as to receive a ready market in New Orleans. There was a good trade for plants, especially ferns. The use of southern smilax, mistletoe, holly and other Christmas greens has been very extensive. The material was of the best quality, as fine as could be seen anywhere. We feel that we could supply the world with these things. At the New Year's receptions (a local Mobile custom so far as I know) these greens were used in great profusion, as were roses and carnations. The carnations have been, as a rule, the poorest ever seen here. JOEL W. GOLDSBY.

BALTIMORE.—The first week of the new year was quite unsatisfactory, so much dark weather causing both short supply and demand. With the light call by the end of the week considerable stock had accumulated, enough to force the prices down and yet all could not be moved at the reduced price. This week business braced up a little, and up to this writing (Wednesday) stock has moved better at prices quoted. The funeral of ex-Governor Lowndes, which took place to-day, caused quite a stir in the trade for the better grade of stock. J. J. P.

PLYMOUTH, IND.—We had a fair Christmas trade. Our sales of plants were not quite what we had hoped for. The Boston fern is as popular as ever in spite of the falling off in other lines. We sold the usual number of Christmas trees, holly, cut flowers, etc., besides gold fish, with which we made a very attractive window display. F. A. FORBES.

New York.

News of the Week.

At the magnificent ball given by Mrs. Astor, on Monday evening, in her Fifth avenue residence, the entire decorations, with the exception of two or three vases of American Beauty roses, were placed by the J. M. Hodgson Co., of Fifty-sixth street and Fifth avenue. The rooms in this residence are so large that no attempt at any particular color scheme for each room was made, and the decorations consisted chiefly of arranging masses of separate colors in different parts of the drawing rooms and in the ball room. A great many flowering plants were used, consisting chiefly of poinsettias and azaleas. In cut flowers, of which a great many were used, lilies stood predominant; these were employed in lavish numbers, which seems to be rather an odd mode of decorating for this time of the year, when we consider that the lilies used were what are commonly known as Easter lilies. There were also employed a great many American Beauty roses, as well as Bride and Bridesmaid, these constituting the only kinds of flowers for the occasion.

On Monday evening, at the dinner in the St. Regis, given by Harry Lehr, the table decorations, which were probably the most lavish of any that New York society has had this season, were put in place by J. Leikens, 7 East Thirty-third street. The table was round, and large enough to seat eighty-five people; in the centre of it stood a tall glass vase measuring over seven feet high, and filled entirely with white roses; the rest of the table was adorned solely with white roses and it took many thousands of these flowers to complete the effect. What little green was necessary on the table to harmonize with the whiteness of the flowers was composed of Adiantum Farleyense. The ladies' corsage bouquets were of gardenias, as were also the boutonnières for the gentlemen. Arranged about the room, in vases, were large bunches of American Beauty roses, and when we consider that this immense dining room is finished in white and gold, one can realize how artistically decorated the room must have appeared with its table of white flowers and the red roses placed here and there in the room. Mr. Leikens is to be complimented upon getting this, the first real elaborate decoration that has been done in the St. Regis, the swellest hotel in New York.

The Flower Market Company, New York, has become incorporated, with a capital stock of \$50,000. The directors are Herman Warendorf, and Joseph Fleischman, of New York, and B. B. Van Der Veer, of Jersey City.

The bowling teams of Hoboken and New York will meet to-night (Saturday) on the alleys of the former mentioned club, to play the second series of match games. The first series was played on the New York alleys a few weeks ago, and the Hoboken men were defeated. Those Jersey giants, under the coaching of Mr. Birnie, threaten to turn the tables on the New Yorkers to-night. The return match between the Madison (N. J.) team and the New York team, has been fixed to take place on the New York alleys, on Friday evening, January 27.

Clarence Salford has been on the sick list for a week with an attack of laryngitis, but is now improving rapidly.

The Weir estate disposed of a piece of their property in Brooklyn on Tuesday; the price realized was \$60,000. F. W. O. Schmitz, of Staten Island, has been granted a judgment for \$593.69, with costs amounting to \$34.56, against Otto Grundeman, Secaucus, N. J. The claim was based on a number of notes given by the defendant in a business transaction, and payment had been resisted on the ground that the amount was \$100 in excess of what he had agreed to pay.

Among the newly incorporated firms in the city is the Shelly Floral Co., capital \$5,000. The incorporators are Eva Shelly, Ida M. Forster and E. V. Forster.

Our much-esteemed friend, James Dean, has been re-elected for the fourth time president of the Freeport (L. I.) Club.

A. Cowee, the gladiolus specialist, of Berlin, N. Y., was in town Wednesday. Carl Jurgens, Jr., of Newport, R. I., stopped here for a day on his way home from Washington and Philadelphia.

F. W. Kelsey, who has been suing George Gould for \$900, the cost of three carloads of rhododendrons, supplied to the latter gentleman's estate at Lakewood, N. J., won his case on Wednesday, after a three-days' trial before a jury. Mr. Kelsey receiving a verdict for the full amount. The defense set up the plea that the goods had never been ordered. Wm. Duckham and A. Harrington, of Madison, N. J., were both retained as witnesses for the plaintiff, and attended the trial during the three days.

Conrad Hugo Dietz, son of William Dietz, florist, of Hoboken, N. J., died on Saturday last at his home, 4,069 Hudson Boulevard, after a week's illness with spinal meningitis. The deceased was well-known among the craft. He was 23 years old and leaves a widow to mourn his loss. The interment took place on Tuesday in the Weehawken Cemetery.

William Quinn, a florist, employed by Frederick Cook, Thirty-ninth street and Ninth avenue, Brooklyn, died suddenly while at work on Saturday, January 7.

Chicago.

News Jottings.

Regular old-fashioned Winter weather prevails here at present, the mercury taking a drop Monday from nearly 40 degrees to below zero Tuesday. With bright days this will have a beneficial influence on stock.

The regular meeting of the Florists' Club was held on Thursday night, several new members being installed.

The committee in charge of the entertainment of the American Carnation Society have their plans well under way; a good time can be looked for by all who attend, a banquet being scheduled for one of the nights.

E. G. Hill, of Richmond, Ind., had an exceedingly fine vase of his new rose Richmond on exhibition one day last week at the wholesale house of the Bentley-Coatsworth Co., which was much admired by all who saw it. This rose will, without any doubt, supersede Liberty, being a larger flower, and the plants having no disposition to rest in Midwinter, as the latter does. Mr. Hill was well pleased with the results of his visit, he securing orders for a considerable quantity of stock as a result.

Poehlmann Bros. Co.'s sales during the past week exceeded those of the same period last year, which was considered the best week in the history of the business.

Bentley & Co. contemplate the erection at New Castle, of a greenhouse, 36x450 feet, with 8-foot walls, for the growing of the new rose Richmond, they having secured a large quantity of stock.

Peter Reinberg was another heavy buyer of stock from Mr. Hill; he is a firm believer in the future of this rose.

At the meeting of the creditors of August Dressel, January 5, it was found that little remains in the way of assets but the real estate, which it was not thought advisable to place on the market at present.

Frederick Thom, 1257 Milwaukee avenue, died January 5. He leaves a widow and children.

The employees of Vaughan's Seed Store have organized a club known as the Picus Club, which gave its first reception and dance at a local hall on the West Side, Tuesday night.

Michael Winandy, the florist at Rogers Park, has been adjudged a bankrupt, with liabilities so far placed at \$1,000.

Visitors in town included: G. F. Crabb and H. Smith, Grand Rapids, Mich.; W. Hagemann, C. Schwake and C. W. Ward, of New York.

ROBERT JOHNSTONE.

Washington, D. C.

Trade Jottings.

President and Mrs. Roosevelt gave their first official dinner to the members of the Cabinet on the 5th inst. The dinner table was decorated with Bridesmaid roses and Farleyense ferns, which produced a very handsome effect. The rooms and corridors throughout the entire house were suitably decorated with roses, other flowers and choice tropical plants of endless variety.

J. R. Freeman is bringing in some very fine lilac from his Georgetown place, for which there is a big demand. Chris. Shelhorn's Bride and Bridesmaid roses are coming in very fine. J. L. Loose has been very busy decorating; he is bringing in some fine carnations and roses from his place in Alexandria, Va. Mayberry & Hoover have been doing a rushing business since Christmas. Ley Brothers are doing well at their store on Ninth street, and report having a good demand for Adiantum hybridum. Z. D. Blackstone has had his share of the dinner and wedding decorations. John Robertson has had several dinners on this week. Henry Pfister has also had several decorations.

M. C.

Philadelphia.

Trade Items.

The slump in business, which has been prevalent since Christmas, with the exception of a little spurt at New Year's, is still on; the demand for all flowers is away below the usual average at this time of year, and, as a result, it is estimated that fully 50,000 carnations were in the hands of the street men on Market street Saturday, the 7th inst. This continued lull in business is the topic, no matter where you go. Many of the retailers claim it is due to the excessive prices charged at Christmas; but the commission men and the growers put the blame on the retailer; so there you are; and one cannot arrive at a genuine conclusion. The commission men and growers say that at ordinary times the prices of flowers are too low; and yet the retailer tries to buy cheaper by crying poor business and scaring the wholesale salesman. The retailer tells you that plants are taking the place of cut flowers at Christmas; but the commission man and the cut-flower growers say no; that the sales of plants have increased 100 per cent, at that time during the past 10 years. The cut flower men say the demand for their products has increased far more than that figure; and if one stops to think it over no doubt they are right. Now the happy ending of all this would be a higher price for cut flowers at all seasons; then not such a jump at Christmas. But how can this be accomplished, as there is no means of coming to a uniform price understanding for Christmas? Four commission men tell me they could have sold more American Beauty roses at Christmas at \$15 per dozen, yet on the 24th, at 4 p. m., a grower sold to a store three dozen Beauty at \$12 per dozen.

The floral decorators are all busy. J. J. Habermehl's Sons had the Assembly ball decoration on Friday at the Bellevue-Stratford, which was a brilliant affair of 900 guests. This firm has also been busy with many smaller affairs at the above hotel.

The Wm. Graham Co. are very busy with balls and dinners; the last large ball was out at Wynnewood at Miss Gibson's. This firm has several large orders on hand for Horticultural Hall.

Pennsylvania Horticultural Society.

At the meeting of the Pennsylvania Horticultural Society next Tuesday John G. Gardner will make an address on the "Multiflora as a Stock for Grafting Roses for Outdoor Planting." Mr. Gardner is an expert on this work, and this address is one of great interest to the trade. There will be specimen plants and photos, to show work done along these lines.

Craig & Son Matters.

A meeting of the creditors of Robert Craig & Son was held at Forty-ninth and Market streets on Thursday

afternoon. This was not a meeting called by the assignee, but a meeting in response to two propositions sent out by Robert Craig & Son, the first agreeing to pay 50 cents on the \$1 by June 15; the second to form a company, the creditors to transfer their claims for stock in the company.

There was a large attendance of the creditors who recommended acceptance of fifty per cent. on or before June 15. Of the total claims, reaching \$71,000, not counting mortgages, a representation of over \$40,000 already signed to accept this proposition.

DAVID RUST.



NEW YORK.—The members of this club met on Monday afternoon and the following scores resulted:

W. H. Siebrecht.....	155	117	153
J. A. Shaw.....	137	144	141
A. J. Guttman.....	156	123	158
A. S. Burns.....	137	162	133
T. J. Lang.....	153	167	168
J. A. Manda.....	173	167	...
J. H. Pepper.....	79	72	...
P. Kessler.....	183	116	...
F. C. Holt.....	139	...	...
C. Smith.....	130	...	...
C. H. Totty.....	101	...	...
W. A. Duckham.....	132	...	...
T. Rochrs.....	129	...	...

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.

Mention the Florists' Exchange when writing.

NURSERY STOCK

From best growers only. English, French, German, and Holland-grown; Evergreens and other Ornamentals for Nurserymen, Florists, and Landscape Architects; furnished at foreign growers' prices. We handle only the best. Send for lists to

August Rölker & Sons, 31 Barclay St., New York

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.

Mention the Florists' Exchange when writing.

Vick's Asters

are still in the lead for FLORISTS' USE

ASK FOR PRICES

JAMES VICK'S SONS

ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

CANNAS

Dormant Roots
Large Pieces, 2,
3 and More Eyes

Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italia, Austria, Queen Charlotte, Paul Marquant, Flamingo, Shenandoah (dark foliage), Fair Persian, Morning Star, P. Washington

\$15.00 per 1000; \$2.00 per 100.
Mixed All Colors
\$10.00 per 1000; \$1.50 per 100.

GLUCAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK

Review of the Market

NEW YORK.—The weather has been changeable and disagreeable this week, and the cut flower business seems to be very much affected thereby. One usually looks for a fairly stiff market at this time of the year, but just now there is anything but snap in the demand for any kind of stock. It cannot be said that any large quantities of roses are coming in, compared with other times, still surpluses will accumulate, and these can only be cleared out at bargain prices, all of which tends to reduce, in a great measure, the averages, for there has been no material change in the asking prices for good stock. Among American Beauty, the greatest trouble is found among the short-stemmed grades; the buds are so inferior to their usual quality, that the buyers can hardly be persuaded to take them at any price.

Bulbous stock is beginning to push itself to the front, so far as quantity goes. Jongials have made their appearance, and dealers are asking \$4 per hundred; but in the majority of cases are taking \$3, the demand being very slow. Some yellow tulips are also in, and endeavors to realize \$3 and \$4 per hundred are being made. White tulips are quite plentiful, and so are Paper White narcissus and Roman hyacinths, and they can, any of them, be had at prices ranging from \$1 to \$1.50 per hundred.

Lilies are in heavy supply, and prices are unchanged; supplies of L. auratum are in, and are offered at \$2 per dozen; L. rubrum are obtainable also at 10c. each. Lily of the valley of various grades is in the market, and can be had at from \$1 to \$3 per hundred, some special grades going at times as high as \$4; though the demand for any grade is not brisk enough to keep the supply cleaned up.

Lilac is becoming more plentiful and when sold brings 75c. per bunch.

Carnations are one of the worst propositions on the market, and prices for ordinary stock have decreased in a marked degree. There are plenty of carnations coming in, and \$1 per hundred has become common for many of them. The top figure for Enchantress is 6c., and other fancy blooms have dropped in proportion.

Violets are almost a drug, and an extravagant cut in prices has developed; 75c. is an outside figure for specials, and for ordinary bunches, 35c. and 40c. are ruling figures; to which should also be added, that surplus stock is cleared out to peddlers at lower figures still, when favorable weather prevails.

BOSTON.—There has been very little change in business conditions the past week, a fairly good demand prevailing for all kinds of stock, and most kinds have been pretty well cleared out, although several kinds of the white brand still savor of being "dragsy." American Beauty roses are more plentiful and prices have dropped somewhat, but not to any extent for the first-class goods. Queen of Edgely rose is not so plentiful as it was; in fact, very little has been seen of this rose recently. Liberty is one of the most popular of roses, but the size and quality vary to such an extent that great differences are noticed in prices.

Carnations, of colored and fancy sorts, have a fairly brisk demand, Enchantress being one of the most popular varieties at this season. White varieties are selling better than they have been, but are far too plentiful yet for all the call there is

for them. Bulbous stock is now coming in better than it has been, consequently is selling better than formerly. Lily of the valley has not had such a demand as it did. Violets are very plentiful and prices have dropped accordingly. J. W. D.

CHICAGO.—The usual after-holiday dullness came as all expected. During the past week prices on all classes of stock have gone lower from day to day until they got to the usual quotations of former years. Stock of all kinds is becoming more abundant and at no time could the market be said to be short on anything. Local retail trade has been very slow, nothing doing to speak of but funeral work and not a great deal of that. Shipping trade is at its lowest ebb, and at present writing no improvement is noticeable. With the advent of a cold wave hopes are entertained that supplies will diminish to a considerable extent, which will have a tendency to help prices. American Beauty is in excess of the demand and considerable quantities are sold at a sacrifice, prices on extra long being from \$5 to \$6 per dozen, according to grade and the quantity on hand, the latter having more to do with the price than quality. Other grades bring from \$4 to \$20 per hundred. Bride and Bridesmaid of the extra grades are not overplentiful, especially of the former, local retailers being willing to pay the prices asked if the stock warrants it. Other grades drag a little. Prices are from \$2.50 to \$12 per hundred. Meteor of the better grades move at fair figures, but not a great quantity is being received. Liberty is not moving as freely as formerly.

Carnations are a drug on the market. The poorest grades seemingly are not wanted at any price. The fancy grades are moved at what can be called satisfactory values at this time of the year; these are not in any oversupply.

Violets are a glut, at prices away below the normal. Lilies are not overplentiful, both callas and Harrisii moving at from \$8 to \$15 per hundred, according to quality. Lily of the valley brings \$1 to \$4 per hundred. Roman hyacinths and narcissus supply their quota to help the present depression, there being not much, if any, call for them. Narcissus in the majority of cases never was as hard to move nor as unsatisfactory stock for the wholesaler to handle as during the present season. Tulips are becoming more plentiful and are of better quality, some very good ones being now seen at prices ranging from \$2 to \$4 per hundred. R. J.

ST. LOUIS.—The cut flower trade the past week has been going along moderately with here and there something doing in the social way; quite a batch of funeral work was turned out last week, and that was about all that kept us from getting rusty. Stock is all that can be wished for, and the only scarcity is in fancy roses in all varieties. Fancy long-stemmed American Beauty are moving along nicely with not too many for the demand; these are at present quoted at \$5 to \$6 per dozen; other grades in the \$2 and \$3 class have quite a call; shorts at \$2 to \$6 per hundred are in big supply. Bride are selling much better than usual, with fancy stock limited; there are plenty of Bridesmaid, Meteor, Liberty, Golden Gate and Perle des Jardins to be had; fancies are quoted at from \$6 to \$8; firsts, \$4 to \$5, and seconds, \$2 and \$3 per hundred.

Carnations are arriving in larger quantities each day and the prices are not so firm as heretofore; although there is a good demand for the best stock, it does not clean up so well, there being too many firsts and seconds in the common varieties in the market. Quotations for fancies are \$4 to \$5; in this class are Enchantress, Prosperity, Mrs. T. W. Lawson and Boston Market; in the \$2 and \$3 stock are Flora Hill, Mrs. Frances Joost, Mrs. E. A. Nelson, G. H. Crane and Guardian Angel. Short and common stock is selling as low as \$1 per hundred.

Bulbous stock is very plentiful at present, also in fair demand, and prices lower; \$1.50 to \$2 for Roman hyacinths, \$2 to \$3 for Paper White narcissus; callas and Lilium Harrisii bring \$1.50 per dozen; Lily of the valley, \$3 to \$4 per hundred. Good stevia sells at \$1.50; sweet peas, \$1 to \$2 per hundred. Asparagus, smilax, adiantum and galax are in sufficient supplies for the demand, going at regular prices.

Since the cold weather has set in for good, the plant trade is reported somewhat slow among the uptown retailers, who handle a big stock of these in their show houses; some extra fancy blooming stock can be seen at these places.

ST. PATRICK.

INDIANAPOLIS.—Regular counter trade has fallen off perceptibly the past few days; a quantity of funeral work now and then is all that keeps the market from being overstocked. Indiana is in the throes of a blizzard at present, and it is only with great difficulty that plants are transferred; many shipments of cut flowers arrive in a frozen condition. Roses have again declined in price; 36-inch American Beauty sell at \$4 to \$5 per dozen; 20 to 30-inch, at \$3 per dozen, and 10 to 15-inch, \$1 to \$1.25 per dozen. At retail the best American Beauty bring \$9 a dozen. Select Bridesmaid and Bride wholesale at \$8 per hundred; seconds, at \$7 per hundred. The best Liberty sell at \$10 per hundred; Mme. Abel Chatenay is of poor quality at present; the best sell at \$7 per hundred.

Carnations, especially colored ones, may be had in any quantity; a few fancy Enchantress sell at \$4 per hundred; good varieties, such as Mrs. T. W. Lawson, can be had at \$3 per hundred.

Another cut in violets has been announced; Marie Louise sell at \$1 per hundred; 50c. per bunch of twenty-five is the customary retail price.

There are many pot plants on the market now, but few are sold; a few potted tulips and Dutch hyacinths are to be had. I. B.

CINCINNATI.—Owing to the extreme cold weather and the quietness of the market it is hard to establish any set prices on stock. American Beauty roses are in good supply, and long-stemmed flowers can be had at \$4, \$5 and \$6 per dozen; shorter stems at shorter prices governed entirely by the quality of the goods. Bride and Bridesmaid bring \$6 as the average price, with second and third grades going much lower, especially those with weak stems. Fancy carnations can be had at \$3 to \$4 per hundred, and good stock at \$2; Lily of the valley realizes \$4; Roman hyacinths and narcissus, \$2 to \$3; Harrisii lilies, \$1.50 to \$1.80 per dozen; callas, \$1.50. Violets bring \$1 to \$1.50 per hundred and no rush for them at that. Baby Primrose sells at 60c. per hundred; smilax, 12½c. to 15c.; Asparagus Sprenger, 35c. per bunch; A. plumosus nanus, 50c. per string or bunch; Leucotoche sprays, 50c. per hundred; fancy ferns, 20c.; galax, \$1 per thousand. E. G. G.

WASHINGTON D. C.—The social season is now in full swing and likely to continue until the 4th of March. Business has been very good this week—dinners, weddings and receptions being numerous, which caused a good demand for flowers. American Beauty brought from \$5 to \$10 per dozen. Good Liberty, which are scarce, realized \$3 to \$5 per dozen. There has been a good demand for Kaiserin, Augusta Victoria and Souvenir du President Carnot, which brought from \$2 to \$4 per dozen. Bride, Bridesmaid, Meteor and Ivory fetched \$2 to \$3 per dozen. Carnations are scarce, especially good reds. Flamingo, which is by far the finest red grown in this section, and is in great demand, also Enchantress, which is another great favorite, brought from \$2 to \$2.50; the older varieties from \$1.25 to \$2 per dozen. New York grown violets realized \$1.50 to \$3 per hundred, while home-grown stock went at \$1 to \$1.50 per hundred. The former are of much better color. Lily of the valley is coming in very fine and sells at \$1.50 to \$2 per dozen. There is a good demand for lilac, which has brought from \$2.50 to \$4 per dozen. Gardenias go at 35c. to 75c. each and are very much called for; Mignonette, 75c. to \$1 per dozen; Roman hyacinths and narcissus (Paper White) brought 50c. to 75c. per dozen; sweet peas, both pink and white, find ready sale at 50c. to 75c. per dozen; Adiantum cuneatum fronds, \$1 to \$1.50 per hundred; sprays of Asparagus plumosus nanus, \$2 to \$5 per hundred, and smilax, 15c. to 25c. per string.

Begonia Gloire de Lorraine have been going rather slowly this week; plants in 5 and 6 inch pots brought from \$1.50 to \$3 each. Azaleas are selling at \$1.50 to \$3 each. Combination pans of Dracaena terminalis and Boston ferns found ready sale at from \$2 to \$5 each. M. C.

NEWARK, N. J.—The Christmas and New Year's trade was in every way satisfactory. Prices were about the same as last year, but the increase in sales of both plants and flowers proved the ever-widening popularity of the florist's commodities as Christmas presents. The quantity of holly, laurel and mistletoe disposed of was at least 25 per cent. greater than a year ago and many florists found themselves unable to meet the demand. Red Christmas bells were very popular and sold well, as also did the immortelle wreaths and crosses. Galax wreaths for grave decoration were also in great demand. The retail prices for cut flowers prevailing Christmas week were: Roses—Bride and Bridesmaid, \$2.50 to \$5 per dozen; American Beauty, \$6 to \$24 per dozen, the higher grades selling better than ever before. Carnations, \$1 to \$3 per dozen; violets, \$3 and \$4 per hundred; Lily of the valley, 75c. per dozen; hyacinths, 75c. per dozen; chrysanthemums, in limited supply, brought 50c. each. Retail prices of plants: Azaleas, which sold more readily than most other flowering plants, \$1.25 to \$7; Begonia Gloire de Lorraine, from 50c. up to \$10 for made-up bell-shaped hanging baskets; oranges, \$2.50 to \$5; ericas, \$2; poinsettias, 75c. to \$4; ardisias, \$1.50 to \$3. Made-up collections, composed of fancy foliage plants, begonias and ferns, sold readily at from \$1 to \$10. Fern dishes, filled with assortments of small ferns, also met with ready sales. Boston ferns keep their place as the favorite of all plants for the house, and a great number of both small and large specimens, including a good many of the Pierson variety, found buyers.

August Egerow says his business was the largest he ever did. His window decoration, consisting of a canopy of holly, dotted with small red electric lights, and a choice collection of plants, was one of the prettiest in town. Baskets and fancy jardinières of mixed plants very tastefully arranged, were among his specialties and a large number were disposed of. Mr. Egerow is issuing to his customers an exceedingly pretty calendar. It consists of three leaflets tied with ribbon and on each is a reproduction of a rose study by Paul de Longpre.

Phillip Brothers were highly satisfied with their holiday trade. They exhibited a handsome lot of plants, jardinières, and fancy baskets, and a superb collection of imported vases. A consignment of camellia plants readily found purchasers at \$4 each. A fine plant of lilac, the only one we saw, sold for \$8. They disposed of fifty cases of holly, and were cleaned out. Boston ferns from the establishment of John R. Johnson, of Pasaic, are a feature with this firm, and better grown plants it would be difficult to find.

Mr. Strobell declared that, as in previous years, they had all the Christmas business they could possibly handle.

Holtzman & Wolfinger did a large business. Christmas bells were shown in large quantities and practically all were sold. They also got rid of a large number of made-up and other plants.

McDonoughs did a very satisfactory volume of trade and were well pleased.

George Penek had an extra staff of clerks and an extensive business in green goods was done. Unusual briskness was also the order in the cut flower and plant departments. G. W. P.

"THERE IS ONLY ONE"

The Fumigating Kind Tobacco Powder

What a Few Say, All That Use It Say

TRON, N. Y.
Enclosed please find Two Dollars; ship at once 100 lbs. The Fumigating Kind Tobacco Powder.
It was a pleasure the freedom we enjoyed last season from insects through the use of your powder.
JOHN H. DUKE.

WALLINGFORD, CONN.
Please send me by freight 100 lbs. The Fumigating Kind Tobacco Powder. I find nothing better. I have used it for four years and find no injury to blooms.
GEO. H. ROWDEN.

MONTCLAIR, N. J.
I think you The Fumigating Kind Tobacco Powder is by far the most effective and satisfactory Fumigator on the market, not only as regards its results but also in the methods of using, and I have gladly recommended it to my friends. The sprinkling Kind Tobacco Powder equally good and effective.
H. BRADLEY.

MARION, IND.
Your Fumigating Kind Tobacco Powder has given me more satisfaction than any other kind of insecticide. I have used it now for two years and think it is the safest, cheapest and easiest to handle on the market.
GUNNAR TEILMANN.

FREE trial five-pound bag will cost you nothing more than the express charges on it. The trial bag will prove our assertion that it is the most effective, cleanest and quickest, as well as the cheapest (10 cents per 100-foot house) article to fumigate with. All aphids killed in one night—our booklet tells of it; we mail one on request.

THE H. A. STOOHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York.

STANDING ORDER FOR CARNATION BLOOMS SOLICITED
OTTO BOURDIE, LOWELL, MASS.
 Mention the Florists' Exchange when writing.

ROSES

Bridesmaid, 3 in., \$3.00 per 100.
 Carnations, Ethel Crocker, 2 in., \$2.00 per 100.
 Rex Begonia, in variety, 3 in., \$4.00 per 100.
 Good value guaranteed.
PAUL O. TAUER, Lebanon, Ind.
 Mention the Florists' Exchange when writing.

Grafted Roses

We are booking advance orders for **BRIDE and BRIDESMAID** stock from 2 1/4 inch pots at \$100.00 per 1000.

EDW. J. TAYLOR
 Southport, Conn.
 Mention the Florists' Exchange when writing.

Rooted Cuttings of **RICHMOND GEM**, the best scarlet
CARNATION
 to date, \$10.00 per 100; \$75.00 per 1000.

Boston Ferns, 2 1/4 in. pots, \$3.00 per 100.
 Flowering Begonia, 2 1/4 in. pots, \$2.50 per 100.
 Heliotrope, 2 1/4 in. pots, \$2.50 per 100.
 Smilax, 2 1/4 in. pots, \$2.00 per 100.
 Salvia, 2 1/4 in. pots, \$2.00 per 100.
 English Ivy, 2 1/4 in. pots, \$2.00 per 100.
 Lemon Verbenas, 2 1/4 in. pots, \$2.50 per 100.
 Feverfew, 2 1/4 in. pots, \$2.50 per 100.
 Asparagus Plumose Nanus, 2 1/4 in. pots, \$3.00 per 100.
 Asparagus Sprengeri, 2 1/4 in. pots, \$2.50 per 100.
 Variegated Vines, 2 1/4 in. pots, \$2.50 per 100.
 Geraniums, Happy Thought, Mountain of Snow and Prince Bismark, 2 1/4 in. pots, \$2.50 per 100.
 Shasta Daisies 2 1/4 in. pots, strong plants, from selected blooms, \$3.00 per 100; \$25.00 per 1000.
 Hibiscus, \$2.50 per 100.
 Periwinkles, \$2.50 per 100.
NATIONAL PLANT CO., Dayton, Ohio
 Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

	Per 100	Per 1000
Enchantress	\$3 50	\$30 00
Fair Maid	2 50	20 00
Queen	3 00	25 00
Queen Louise	2 00	15 00
Lawson	2 50	20 00
Cressbrook	2 00	15 00
Challenger	2 00	15 00
Flaco	2 00	15 00
H. Fenn	3 00	25 00
Prosperity	2 50	20 00
Geo. M. Bradt	3 00	25 00
FIANCEE	12 00	100 00

C. WARBURTON, Fall River, Mass.
 Mention the Florists' Exchange when writing.

CARNATIONS

HEALTHY YOUNG STOCK WRITE FOR PRICES
 Fine large **DUCKHAM CHRYSANTHEMUM** STOCK PLANTS at \$1.25 per doz
 Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Merstham Yellow, White Coombes, Emily Millham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Duckham, the cup winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.

Chrysanthemum Stock Plants

Polly Rose, Pacific, 5 cts. each.
 Wm. Chamberlain, Ivory, Appleton, Orizaba, Nellie Pickett, Sunshine, Edgar Sanders, Brutus, Maid Dean, Kalb, Kate Broomhead, all at 15 cts. each.

Agawam Lodge Conservatories
 FLUSHING N. Y.

25,000 Rooted Carnation Cuttings

for January and February delivery: Flora Hill, Mrs. McGowan, Joost, Queen Louise, Elbon, a fine red. All at \$10.00 per 1000. Cash with order, please.

LOCUST STREET GREENHOUSES
 I. H. A. HUTCHISON, Prop. OXFORD, PA

BOSTON MARKET

Fine rooted cuttings of the above ready now. An excellent substitute for Flora Hill, price \$17.00 per 1000.

H. A. MOLATSCHE, 88th St., bet. 8th & 9th Aves., Brooklyn, N. Y.

ROOTED Carnation Cuttings

	Per 100	Per 1000
Mrs. M. A. Patten	\$5.00	\$40.00
Enchantress	3.00	20.00
Fair Maid	2.50	15.00
Mrs. T. W. Lawson	2.50	15.00
Mrs. Nelson	2.50	15.00
Harlowarden	2.50	15.00
Harry Fenn	2.50	15.00
The Queen	2.50	15.00
Queen Louise	2.00	10.00

Standard Greenhouses, NORWOOD R. I.
 Mention the Florists' Exchange when writing.

COLEUS

ROOTED CUTTINGS

Verschaffeltii, Fire Brand, Golden Queen, Beckwith Gem, Lord Palmerston, Queen Victoria and Fancies, 60c. per 100; \$5.00 per 1000.

Golden Bedder (original) and Hero 75c. per 100; \$6.00 per 1000. A discount of 10 per cent. allowed on 10,000 or more Coleus. More liberal discount on large orders.

AGERATUM, Princess Pauline and Stella Gurney.

SALVIA, Splendens and Jean Reveal, rooted cuttings, 75c. per 100; \$3.00 per 1000.

VINCA VARIEGATA, 3 in. pots, \$5.00 per 100.

FRANK A. PIERSOEN, Cromwell, Conn.
 Mention the Florists' Exchange when writing.

CARNATIONS

Flamingo, Enchantress, Queen, Queen Louise, Walcott, Lawson, Floriana, Genevieve Lord and FIANCEE.
R. G. PYE, Nyack, N. Y.
 Mention the Florists' Exchange when writing.

250,000 Rooted Cuttings CARNATIONS

NOW READY
 All Orders Filled Full and Prompt

	Per doz.	Per 100	Per 1000
Alba, big white	\$0 25	\$1 40	\$12 50
Queen Louise, White	20	1 20	10 00
Flora Hill, white	20	1 20	10 00
Walcott, white	20	1 20	10 00
Norway, white	20	1 20	10 00
Prosperity, fancy	25	1 40	12 50
Lawson, pink	25	1 40	12 50
The Marquis, pink	20	1 20	10 00
Genevieve Lord, pink	\$0 20	\$1 20	\$10 00
Mrs. Joost, pink	20	1 20	10 00
G. H. Crane, scarlet	20	1 20	10 00
America, scarlet	20	1 20	10 00
Potter Palmer, scarlet	20	1 20	10 00
Harlowarden, crimson	25	1 40	12 50
Gen. Gomez, crimson	20	1 20	10 00
Eldorado, yellow	20	1 20	10 00
Armazindy, var.	20	1 20	10 00

6 at dozen rates; 25 at 100 rates; 250 at 1000 rates. Cash.
UNROOTED CUTTINGS AT HALF PRICE.

If not satisfactory on arrival, return at once and money will be refunded promptly.
 We prepay express charges at above prices.

WM. LINFOOT, 317 N. Vermillion St., DANVILLE, ILL.
 Mention the Florists' Exchange when writing.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	CRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories

NATICK, MASS.

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

Look Here PANSIES

CHRYSANTHEMUM STOCK PLANTS
 See my advertisement on page 680 of issue of December 3, for varieties and prices, or write me.

CARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$2.00 per 100, \$15.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Harry Fenn, Harlowarden, Prosperity, Fair Maid, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.50 per 100, \$30.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000.

Boston Ferns, from benches, good for 5 in. 6 in., or 7 in. pots, 25c., 35c. and 50c.

JAMES E. BEACH, 2019 Park Avenue, Bridgeport, Conn.
 Mention the Florists' Exchange when writing.

The Model EXTENSION CARNATION SUPPORT



Endorsed by all the leading carnation growers as the best support on the market. Made with 2 or 3 circles. Write for prices and circulars.

We have special low prices to offer and can save you money on

Galvanized Wire ROSE STAKES

Write us for prices before ordering elsewhere. Prompt shipment guaranteed.

IGOE BROS.
 226 North 9th Street
 BROOKLYN, N. Y.
 Mention the Florists' Exchange when writing.

THE JENNINGS STRAIN.
 Fine stock, choice colors. Large plants, in bud and bloom, \$1.00 per 100. Smaller sizes, from cold frames, \$3.50 per 1,000, by express. Small plants, by mail, 75 cts. per 100. Seed, \$1.00 per pkt.; \$6.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn.
 Grower of the Finest Pansies.

Rooted Cuttings CARNATIONS Fine healthy Stock
 Ready now. Orders booked for future delivery.

White Lawson	\$7.00	\$60.00
Lady Bountiful	6.00	50.00
Mrs. M. A. Patten	6.00	50.00
Nelson Fisher	7.00	60.00
Daheim	6.00	50.00
Flamingo	6.00	50.00
Enchantress	2.50	20.00
Boston Market	3.50	20.00
The Queen	2.50	20.00
Mrs. T. W. Lawson	2.50	20.00

List of other varieties on application.

FIELD-GROWN ROSES OWN ROOTS
 Hybrid Perpetual, Hybrid Tea, Hardy Climbers, Everblooming Teas, Etc. good assortment of varieties, from \$6.00 to \$12.00 per 100.

VERBENAS
 100 1000
 Best Mammoth, rooted cuttings... \$1.00 \$8.00

GERANIUMS
 Double, single and Ivy Leaf varieties, 100 1000
 Strong pot plants... \$3.00 \$25.00
 Strong rooted cuttings... 2.00 15.00

MISCELLANEOUS

Ageratum, Cope's Pet, White Cap	100	1000
F. Pauline, S. Gurney, L. Bonnet	\$1.00	\$8.00
Achyranthes, four sorts	1.00	8.00
Coleus, best bedding and fancy sorts	1.00	8.00
Cuphea	1.25	10.00
Fuchsia, double and single	2.00	15.00
Feverfew, double white	1.50	12.00
Heliotrope, light and dark	1.25	10.00
Ivy German	1.50	10.00
Moon Vine, true white	2.00	15.00
Salvia, Splendens and Bedman	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
SMILAX, 2 1/4 in.	\$2.50 per 100;	\$20.00 per 1000;
3 in.	\$3.00 per 100.	
ASPARGUS SPRENGERI, 3 in. pots	\$6.00	
per 100; 3 1/4 in.	\$8.00 per 100.	

WOOD BROS., Fishkill, N. Y.
 Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND GEM	\$10.00	\$75.00	LAWSON	\$1.50	\$12.50
FLAMINGO	6.00	50.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.50	12.50
CRUSADER	5.00	45.00	ESTELLE	1.50	12.50
LADY BOUNTIFUL	5.00	45.00	HIGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
ENCHANTRESS	3.00	25.00	QUEEN LOUISE	1.00	9.00
BOSTON MARKET	2.50	20.00	PERU	1.00	9.00
NELSON	1.50	12.50	G. ANGEL	1.00	9.00
ADONIS	2.50	20.00			

ROSES

Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

2 1/2 Pot Plants

	Per 100	Per 1000		Per 100	Per 1000
LA DETROIT	\$6.00	\$50.00	LIBERTY	\$5.00	\$45.00
CHATENAY	4.00	30.00	UNCLE JOHN	4.00	35.00
SUNRISE	4.00	30.00	KAISERIN	4.00	30.00
PERLE VON GODESBERG	5.00	40.00	BRIDESMAID	3.00	25.00
ROSALIND ORR ENGLISH	25.00	200.00	BRIDE	3.00	25.00
			IVORY	3.00	25.00
			PERLE	3.00	25.00

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

PETER REINBERG

51 Wabash Ave., Chicago

Telephone 2846 Central.
Mention the Florists' Exchange when writing.

CARNATIONS Rooted Cuttings

	20,000 now ready, Al stock	per 100	\$6.00	per 1000	\$50.00
Mrs. M. A. Patten		5.00		40.00	
Flamingo		3.50		27.50	
Enchantress		3.00		25.00	
Boston Market		3.00		25.00	
J. H. Manley		2.50		20.00	
Fair Maid		2.50		20.00	
Herry Fenn		2.50		20.00	
Mrs. T. W. Lawson		2.50		20.00	
Gov. Wolcott		2.50		20.00	

HENRY A. STEVENS CO., East St., Dedham, Mass.
Mention the Florists' Exchange when writing.

ROOTED Carnation Cuttings

All orders filled in rotation.

	Per 100
Mrs. M. A. Patten, Var.	\$6.00
White Lawson	6.00
Flamingo, scarlet	6.00
Albatross, white	6.00
Enchantress	3.50
Queen, white	3.00
Queen Louise	3.00
Boston Market, white	3.00
Lawson	2.00
J. H. Manley, scarlet	2.00
Challenger	2.00

Write for prices on large lots. 5 per cent. discount for cash with order.

JAMES D. COCKCROFT, Northport, Long Island, N.Y.
Mention the Florists' Exchange when writing.

ORDERS BOOKED NOW FOR CARNATIONS

Flora Hill and Mrs. Joost, 2 in., \$1.25 per 100.
Ivory and Golden Gate, 2 1/2 in. pots, \$1.60 per 100.
H. ROSSITER,
200 Lexington Ave., JERSEY CITY, N. J.
Mention the Florists' Exchange when writing.

PROSPECTOR RED SPORT FROM MACEO

Color equal to Estelle, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market, producing more blooms to the square foot than any variety now grown.
It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz.
Easy grower, free from disease, and, like its parent, can be planted close, as there is no surplus green, every shoot producing a flower.
We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

COME AND SEE THE STOCK GROWING
H. W. FIELD, Northampton, Mass.
Mention the Florists' Exchange when writing.



The Best Method to Follow.

Every grower ought to know by this time whether the plants grown in the house all Summer are superior to the field plants. No doubt a variety has been found to do better under indoor culture; but I prefer field-grown plants for three reasons: First, I think the plants will be in better health; second, they are easier handled; third, more flowers will be obtained if plants have been properly topped. One can have a heavy crop for the holidays, and the plants will not be off-crop even after these heavy crops have been harvested. Of course, this comes about by topping at intervals.
To get back to indoor stock, if one has had success with indoor culture, and it pays better than the field-grown stock, then that is the way to grow them. But to insure success the grower should get his cuttings in the sand, without delay, following the same method in taking cuttings, as given in my last notes.

Mulching and Feeding.

If plants were mulched early and only given a light mulch, have made a rapid growth and the soil and mulch are full of small roots, the plants are in good condition to receive their second mulch. Use good rotten cow or horse manure and put it on about two inches thick. If not enough manure is available to do this mulching, the plants can be fed with manure water once a week, if the soil gets dry enough to stand it that often; the soil should be in such shape that it will pulverize nicely. Use the manure water in a weak state the first two weeks; and when watering make the soil wet to the bottom of the benches. Of course, if the soil does not dry out in a week, then wait until it gets in that state and then afford the watering.

The Carnation Grower's Opportunity.

Every grower of carnations should, by all means, go to the Carnation Society's show at Chicago, January 25 and 26, as he will be able to see there an exhibition that will surpass any that has ever been given before. Not only will the number of blooms be larger, but better qualities will be shown. He will see how some of our experts grow the standard varieties, and something in the new ones that will open his eyes. Not only can a grower see flowers, but he will learn something at the exhibition that he cannot learn otherwise; for when a grower sees another show fine stock and knows that it is far better than his own, he is determined, upon going home, to grow stock like that observed at the show. This alone makes one's work a pleasure. So make your plans to attend this exhibition, which is to be the grandest ever given, and get acquainted with growers, and you will never miss a like show hereafter.
CHAS. KNOPF.

CARNATION Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
Flamingo	\$8.00	\$80.00	Prosperity	\$2.00	\$20.00
Enchantress	3.00	30.00	Wolcott	1.50	15.00
Estelle	2.00	20.00	Harlowarden	1.50	15.00
Lawson	1.50	15.00	Crane	1.50	15.00
Queen Louise	1.50	15.00	Queen Louise	1.50	15.00
Boston Market	1.50	15.00	Hill	1.25	12.50
Her Majesty	1.50	15.00	Joost	1.25	12.50

Strong stock. Satisfaction guaranteed. Special prices on large quantities. Cash.
SMITH & GANNETT, Geneva, N. Y.
Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Now Ready
Send for price list of all the new and standard sorts.
WILLIAM SWAYNE, Box 226, Kennett Square, Phila.
Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

BIG STOCK
ORANGE TREES Write for Price List
The Philippi Nurseries, PHILIPPI BROS Proprs.
ROCKLIN, CAL.

ROOTED Carnation Cuttings

	100	1000
White Lawson	\$6.00	\$60.00
Flamingo	6.00	60.00
Enchantress	3.50	35.00
The Queen	2.50	25.00

THE CARDINAL from 2 in. pots, \$12.00 per 100. Extra fine cuttings, sure to give satisfaction.

LARCHMONT NURSERIES

LARCHMONT, N. Y.
Mention the Florists' Exchange when writing.

WM. PENN

The most prolific pink carnation ever offered the trade. Every grower should give it a trial. You can not make any mistake in planting a thousand of it, but rather than have you miss it I will send free by mail 25 well-rooted cuttings for \$2.50. Send for price list of this and other varieties.

QUEEN LOUISE and LILLIAN POND at \$10 per 1000
FLORIANA, HARRY FENN and MRS. ROOSEVELT at \$12.50 per 1000.
MRS. E. A. NELSON at \$16.00 per 1000.

ALBERT M. HERR, Lancaster, Pa.

Carnation Cuttings

	Per 100	Per 1000
Enchantress	\$4.00	\$30.00
Queen	3.00	25.00
Fair Maid	3.00	25.00
Harry Fenn	3.00	25.00
M. A. Patten	6.00	50.00
Queen Louise	2.00	15.00
Lawson	2.00	15.00
Wolcott	2.00	15.00
Manley	2.00	15.00
Estelle	2.00	15.00

Our stock is first-class, and we guarantee our cuttings to be Al and well-rooted. Orders from parties unknown to us must be accompanied by cash or satisfactory references.
THE LEWIS CONSERVATORIES, MARLBORO, MASS.
W. L. LEWIS
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS READY WHITE LAWSON

\$7.00 per 100; \$60.00 per 1000
ENCHANTRESS, \$4.00 per 100; \$30.00 per 1000
PINK LAWSON, 3.00 " 20.00 "
Send for Catalogue for other varieties
CHICAGO CARNATION CO., Joliet, Ill.
Mention the Florists' Exchange when writing.

New Carnation CRISIS

THE FINEST SCARLET. PERFECTLY HEALTHY.
LARGE FLOWER. THE BEST SHIPPER.
LONG STEM. BRINGS THE HIGHEST PRICE.
NEVER FADES. THOROUGHLY TRIED.
NEVER BURSTS. A MONEY MAKER.
PRICE: \$12.00 per 100; \$100.00 per 1000.
SEND FOR CIRCULAR.
J. L. DILLON, Bloomsburg, Pa.

January 14, 1905

ROOTED CARNATION CUTTINGS

White 100 1000	Pink 100 1000	Crimson 100 1000	Grafted Roses on Strong English Manetti Stock
Lady Bountiful... \$4.00 \$35.00	Enchantress... \$3.50 \$30.00	Octeroon... \$4.00	Bridesmaid, Bride, Golden
Vesper... 2.50 20.00	Lawson... 2.00 15.00	Flamingo... 5.00 \$10.00	Gate, Ivory, Chateaux, \$12
Queen... 2.50 20.00	Fair Maid... 2.00 15.00	Variegated	per 100; \$10.00 per 1000.
Queen Louise... 2.00 15.00	Indiana... 4.00	Mrs. Patten... \$6.00	Uncle John, La Detroit,
Gov. Wolcott... 2.00 15.00	Ethel Ward... 4.00	Prosperity... 2.00 15.00	Gen. McArthur, \$18 per 100.
Boston Market... 2.00 15.00		Gaiety... 2.00 15.00	
White Lawson... 6.00 50.00	Crimson	Stella... 2.00 15.00	
	Harlowarden... 2.50 20.00	Marshall Field... 2.00 15.00	

E. G. HILL & CO.

Wholesale Florists

RICHMOND, IND.
Mention the Florists' Exchange when writing.

WHITE LAWSON Carnation

Rooted Cuttings, \$5.00 per 100.
Mrs. Patten, \$5.00 per 100.

H. F. LITTLEFIELD, Worcester, Mass.
Mention the Florists' Exchange when writing.

"MY MARYLAND"

The largest, most productive and most profitable
WHITE CARNATION

yet raised. Will be disseminated in 1906. Write us about it. Also for other new and standard carnations.

Chrysanthemum Stock Plants

Each Doz.	Pacific, Polly Rose, Willowbrook, Ivory, Mrs. J. Jones, 10c. each, \$5.00 per 100, Orizaba, Halliday, Mouravia, Merry Xmas, Liger, H. Sinclair, 10c. each, \$7.00 per 100.
Dr. Enguehard... \$0.35 \$3.00	
White Mrs. J. R. Trantor... .35 3.00	
American Beauty... .35 3.00	
S. T. Wright... .50 5.00	
Uncle John... .35 3.00	
Rockford... .25 3.00	
Mrs. Probin... .35	
Mrs. Newell... .35	

H. WEBER & SONS, Oakland, Md.
Mention the Florists' Exchange when writing.

RED LAWSON

Sport from Mrs. Theo. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's away ahead of all the reds.
Price, per 1000 \$75.00; per 100 \$10.00. 250 at 1000 rate.

ROOTED CUTTINGS

	Per 100	Per 1000
FAIR MAID.....	\$2.04	\$15.60
QUEEN.....	2.00	15.00
BOSTON MARKET.....	2.00	15.00
LAWSON.....	1.50	12.50
QUEEN LOUISE.....	1.25	10.00
WHITE LAWSON.....	5.00	
MRS. ROOSEVELT.....	1.25	10.00

Satisfaction guaranteed or money refunded.

Quidnick Greenhouses, Anthony P. O., R. I.

J. H. CUSHING, Prop.

Mention the Florists' Exchange when writing.

RED SPORT

(OF MACEO)

This New "Bread and Butter" commercial brilliant "Orange" Red Carnation, now in its fourth year, has the hardy constitution of Gen. Maceo, with a stronger, heavier growth, longer and stiffer stem and larger flower.

Growing under the same conditions and in the same house with Flamingo and Estelle, it has produced four times as many flowers as the former and twice as many as the latter. The color is as good as Estelle and the bloom brings as much as does Estelle at its best. Every flower is of a uniform, brilliant red, perfectly double, with an ideal calyx; in fact, we have never seen a split one.

RED SPORT is perfectly healthy, an easy variety to grow, an early and continuous bloomer, throwing its heaviest cuts around the Christmas holidays and during the winter months, when red is in demand.

RED SPORT will keep longer and travel farther than any other red carnation, and will prove a bonanza to growers doing a shipping business.

If the scarcity of reds in the market that now exists continues, **RED SPORT** will pay better to the square foot of bench room than any other variety of any color to date.

Every florist who has seen **RED SPORT** growing has placed an order for rooted cuttings, which tells the tale.

All our rooted cuttings are sold until after Jan. 25. Orders filled in strict rotation from above date on.

Price, 12 for \$1.50; 25 for \$2.50, 50 for \$4.00, postpaid. \$6.00 per 100; \$50.00 per 1000, by express.

We guarantee cuttings to be well rooted and to arrive in good condition.

QUEEN LOUISE—the standard white, \$1.25 per 100 postpaid; \$10.00 per 1000 by express.

A. B. DAVIS & SON, Purcellville, Ind.
Carnation Specialist.
Mention the Florists' Exchange when writing.

MRS. FISHER CARNATIONS

For Summer bloom, strong, 2 in., \$2.50 per 100.
Dracena Indivisa, 4 in., \$3.00 per 100.
Paper White Narcissus, cut blooms, \$2.50 per 100. CASH WITH ORDER.

WM. KEIR, Pikesville, Md.
Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

CARNATIONS

50,000 rooted cuttings; good strong plants, now ready for delivery.

	Per 100	Per 1000
MRS. T. W. LAWSON.....	\$2.00	\$15.00
WHITE LAWSON.....	5.00	45.00
ENCHANTRESS.....	2.50	20.00
MRS. M. A. PATTEN.....	4.50	40.00
BOSTON MARKET.....	2.00	18.00

50 at 200 rates, 500 at 1000 rates.
Satisfaction guaranteed. Cash with order.

VIOLETS PRINCESS OF WALES

Unrooted cuttings, ready now, 50 cts per 100; \$4.00 per 1000.
Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000.
Please place your orders now.

FD. BOULON & SON SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

Rooted CARNATIONS Clean and Healthy

Mrs. M. A. Patten.....	\$6.00
Nelson Fisher.....	7.00
Enchantress.....	3.60
Walcott, Boston Market, J. H. Manley, Maceo.....	2.00

SIDNEY LITTLEFIELD, North Abington, Mass.
Mention the Florists' Exchange when writing.

Unrooted Cuttings

of Enchantress, the best light pink; the Queen, the ONLY white Carnation, carefully packed at \$1.50 per 100; \$12.50 per 1000. Rooted Cuttings—double.

HENRY EICHHOLZ, Waynesboro, Pa.
Mention the Florists' Exchange when writing.

CARNATION GIBSON BEAUTY

We wish to announce to the trade that Gibson Beauty, the new Carnation that we have sold so extensively, has not come up this season to its past record, or our expectations, being a late bloomer, and giving but few blooms before Christmas. We have decided not to disseminate same, and have cancelled all orders that have been placed.

J. D. THOMPSON CARNATION CO.
Joliet, Ill.
SWAN PETERSON FLORAL CO.
Gibeon City, Ill.

Introducers.

Mention the Florists' Exchange when writing.

New Light Pink Carnation PHYLLIS

A true Daybreak color, a free bloomer and a good keeper
Price, \$12.00 per hundred; \$100.00 per thousand.

CHRYSANTHEMUMS

All the newest and best varieties at advertised rates.

JOHN N. MAY, SUMMIT, N. J.

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Now Ready

Eclipse Our 1905 introduction. A pink carnation, lighter in color than Lawson and of a more even and bright shade of pink. No objectionable shading or bleachings. A strong free growth, large flowers on long stiff stems and early and continuous flowering.

Fiancee A most pleasing shade of medium pink. No carnation has ever equaled the number of awards received by this variety.

Cardinal Brilliant scarlet. A great improvement over Estelle.
F. Burki Pure white.

The above four varieties,
\$12.00 per 100; \$100.00 per 1000.

Richmond Gem Scarlet, \$10.00 per 100; \$75.00 per 1000.

In addition to the above we can supply twenty-five of the best standard sorts, varieties that are profitable to grow. Our preliminary Price List will be sent upon application. We are pioneers in the carnation line and our facilities for rooting and handling cuttings are nearly perfect, due to our long experience.

F. DORNER & SONS CO., LA FAYETTE, INDIANA

Mention the Florists' Exchange when writing.

Lady Bountiful and the Belle

The two best commercial white carnations of the present day. Both have received honors over competitors at the Fall exhibitions. We have large stocks of these two varieties which are already in great demand. Do not delay in placing your order for early delivery. \$6.00 per 100; \$50.00 per 1000; \$112.50 per 2500.

White Lawson \$7.00 per 100; \$60.00 per 1000.

Flamingo, Nelson Fisher, and Mrs. M. A. Patten, \$6.00 per 100; \$50.00 per 1000.

Crusader, Indianapolis, Judge Hinsdale and The President, \$5.00 per 100; \$40.00 per 1000.

Enchantress \$3.00 per 100; \$25.00 per 1000.

INDEX OF ADVERTISERS

Table listing various advertisers and their page numbers, including Acheson L W, Agawan Lodge Cons., Allen J K, etc.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscaping, Topographical Surveys, etc.

PETERSON NURSERY, 505 W. Peterson Ave., CHICAGO, ILL

Contents.

Table listing contents of the magazine, including Abies Picea nobilis (Supplement), Bowling, American Carnation Society, etc.

INDEX OF ADVERTISEMENTS

Table listing various advertisements and their page numbers, including a, col. 1; b, col. 2; c, col. 3; d, col. 4; PLANTS, SEEDS, BULBS, FLOWERS, etc.

BERKSHIRE

New Seedling Double Pink Petunia. Strong grower, very free bloomer and a beautiful shade of pink—color of Bridesmaid rose. I guarantee this Petunia to be as represented.

N. LECAKES & CO.

53 W. 28th St., NEW YORK. Tel. No. 1214 Madison Square. Stands at Cut Flower Exchange Coogan Bldg., W. 28th Street & 34th Street Cut Flower Market.

Green and Bronze Galax Leaves 75c. per 1000.

Hardy Cut Ferns

Dagger and Fancy, \$1.50 per 1000. Bright new Bronze and Green Galax, \$1.00 per 1000. Sph ignum Moss, 40c. per bag; \$1.00 per bbl. Ivy Leaves, 40c. per 100. Laurel, 50c. per bunch. Roping, 5c. and 6c. per yard.

WM. NISBET & CO.

54 Pemberton Square, Boston, Mass.

SCRANTON FLORIST SUPPLY COMPANY

201 North Seventh Ave. SCRANTON, PA. Importers and Manufacturers of FRESH GALAX and LEUCOTHOE. ALL FLORISTS' SUPPLIES. SEND FOR CATALOGUE.

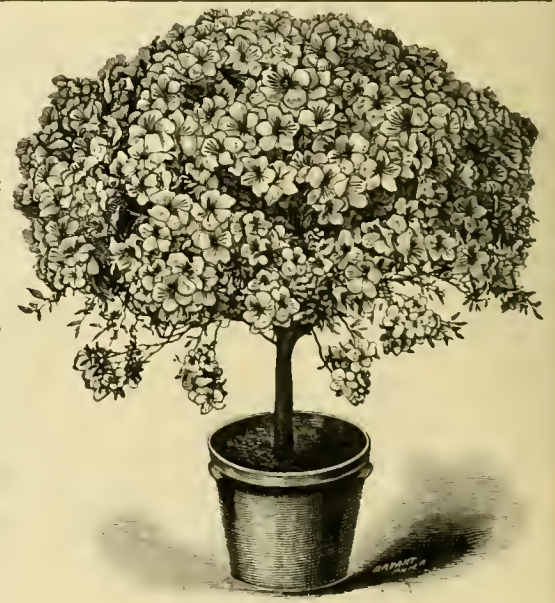
HARDY CUT DAGGER AND FANCY FERNS

WILD SMILAX, \$4.00 and \$7.00 per case. GALAX, New crop. Green and bronze. \$1.00 per 1000. Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, Letters, Immortelles, Cypas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 5c. and 6c. per yard. HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass. L. D. Telephone, Main 2018.

ELECTROTYPES

State subjects desired and we will mail proofs and prices. Perfect Engravings made for exclusive use, from imperfect copy.



JAS. M. BRYANT, Est. 1873. 706 Chestnut St., Philadelphia. An excellent engraving for Easter advertising. HORTICULTURAL ENGRAVING AND PRINTING. Mention the Florists' Exchange when writing.

J. K. ALLEN

Wholesale Commission Dealer in Cut Flowers
Telephone, 106 W. 28 St., NEW YORK Open at
187 Mad. Sq. 8 A. M.
If price list not received, send your name
and address.

Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.

Coogan Building NEW YORK
Open every Morning at Six o'clock for the Sale of
Cut Flowers
Well Space for advertising purposes to Rent
J. DONALDSON, Secretary
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JOSEPH S. FENRICH

Wholesale Florist

Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

GROWERS, ATTENTION!

Always ready to receive Fine Stock

WILLIAM H. GUNTHER

30 West 29th Street
Phone, 551 Madison Sq. NEW YORK
Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

ALEX. J. GUTTMAN

Wholesale Florist

All varieties of cut flowers in season at right prices,
and of the best quality.
52 West 29th Street, NEW YORK
Telephones, 1664-1665 Madison Square

JAMES A. HAMMOND

Commission Dealer in
CUT FLOWERS

Consignments Solicited
113 W. 30th St., New York
Telephone, 851 Madison Square

HICKS & CRAWBUCK

Wholesale Florists

And Dealers in FLORISTS' SUPPLIES
108 Livingston Street
Phone, 3660-3661 Main BROOKLYN, N. Y.

JULIUS LANG

Wholesale Florist

53 WEST 30th STREET,
NEW YORK
Consignments Solicited. Telephone, 280 Madison Sq.

ALFRED H. LANGJAHR

55 West 28th St., New York
Telephone 3924 Madison Square.

ESTABLISHED 1891 BUY FROM SHIP TO TRY
ME
Mention the Florists' Exchange when writing.

THE
NEW YORK CUT FLOWER CO.
J. A. MILLANG, General Manager
55 and 57 W. 26th St.
NEW YORK
Telephone, 756 MADISON SQUARE
Mention the Florists' Exchange when writing.

JAMES McMARUS Telephone 759 50 W. 30th St., New York
Madison Square
Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & HUGHES

Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
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WHOLESALE FLORISTS
42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS
and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

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WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones: { 2200 Madison Square 57 West 28th Street, NEW YORK
 { 2201 Madison Square

Wholesale Prices of Cut Flowers, New York, January 13, 1905.
Prices quoted are by the hundred unless otherwise noted.

A. BEAUTY, fancy—special	30.00 to	50.00	Ind' grades, all colors.....	.100 to	1.50
" extra	20.00 to	30.00	STANDARD White.....	1.50 to	3.00
" No. 1	15.00 to	20.00	VARIETIES Pink.....	1.50 to	3.00
" No. 2	4.00 to	8.00	Red.....	1.50 to	3.00
" No. 3	2.00 to	3.00	Yel. & Var.	1.50 to	3.00
Bride, 'Maid, fancy—spe'	10.00 to	15.00	*FANCY— White.....	3.00 to	4.00
" extra.....	8.00 to	10.00	(*The highest grades of	3.00 to	4.00
" No. 1	4.00 to	6.00	standard var.)	3.00 to	4.00
" No. 2	1.00 to	3.00	NOVELTIES.....	6.00 to	8.00
Golden Gate.....	3.00 to	15.00	LILIES.....	10.00 to	12.00
Liberty.....	5.00 to	50.00	LILY OF THE VALLEY.....	1.00 to	3.00
Meteor.....	2.00 to	8.00	MIGNONETTE, ordinary.....	3.00 to	5.00
Mme. Abel Chatenay.....	2.00 to	10.00	fancy.....	10.00 to	12.00
ADANTUM.....	.50 to	.75	PANSIES, per dozen bunches.....	..... to	.25
CROWANUM.....	..... to	1.50	PAPER WHITE NARCISUS.....	1.00 to	1.50
ASPARAGUS.....	25.00 to	50.00	ROMAN HYACINTHS.....	1.00 to	1.50
Sprenger, bunches	15.00 to	35.00	SMILAX.....	10.00 to	12.00
CALLAS.....	10.00 to	12.00	STOCKS, per bunch.....	..... to	.10
CATTLEYS.....	30.00 to	75.00	TULIPS.....	1.00 to	2.00
CYPRIPEDIUM.....	6.00 to	12.00	VIOLETS.....	.35 to	.40
DAISIES.....	.50 to	1.00	specials.....	.60 to	.75

WALTER F. SHERIDAN

Wholesale Florist
Telephone, 902 39 WEST 28TH ST., NEW YORK
Madison Square
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
Telephone, 1998 JOHN I. RAYNOR, 49 West 28th St., NEW YORK
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Receiving Daily
Fine
PRES. CARNOT
KAISERINS
METEORS
BEAUTIES
Etc.
We have a fine grade of everything in market at present.
Send us a Trial Order and we will do the rest.
55 West 28th Street
Telephone, 421 NEW YORK
Madison Square
CUT FLOWERS AT WHOLESALE
Mention the Florists' Exchange when writing.

St. Louis.

The Week's News.
George M. Kellogg, of Pleasant Hill, Mo., called Sunday; Mr. Kellogg will attend the inauguration of Governor Folk, at Jefferson City, Mo., today (Monday). Judge W. J. Vesey, of Fort Wayne, Ind., spent Monday in St. Louis, calling on the trade; the judge reports everything satisfactory in Fort Wayne.
Riessen Floral Co. report a busy week in decorations and funeral work. Mr. Buechel, the manager, is still confined to bed, with his broken leg; reports say that he will not be able to look after the firm's interests until Spring.

The Koenig Floral Co. and F. H. Meinhardt, up near the cemeteries, report a heavy trade in greens during the holidays. The weather being so fine a number of plants were also sold to their patrons for cemetery decorations.

Henry Ostertag, of Ostertag Bros., called to say that wedding decorations have been their specialty since the holidays; a few large orders ahead will keep them quite busy the balance of this month. Henry was elected Democratic central committeeman of his ward last week.

C. C. Sanders has bought the Temple Inn building in the World's Fair Grounds, the material of which he will use to build his new residence at his place on Henley road. His son, Walter, who has been visiting in California, will return by the end of the month, when preparations will be made for a big Spring trade.

Charles Schoele is making a collection for the family of the late Pat Quinn, who, we understand, are in need. He says any of the wholesale houses will take subscriptions.

J. J. Beneke furnished the decorations for the big Legion of Honor banquet at the Jefferson Hotel the past week; also for the Knights of Pythias banquet at the Silver Grill, one of the swell restaurants downtown.

E. W. Guy and Henry Edmunds of Belleville, Ill., were recent callers, and report a heavy holiday trade in cut flowers. Henry Johan, of Collinsville, was also a recent caller. Mr. Johan sold part of his place, that is not used for his florist business, to a coal company to be used for coal mining.
ST. PATRICK.

QUAKERTOWN, PA.—E. I. Rawlings is adding to his heating capacity. Last Winter it was insufficient for the hard test then imposed, and Mr. Rawlings intends to be prepared for any emergency this year. His business continues in a most satisfactory condition.

WESTCHESTER, N. Y.—Charles Uhlik, formerly of this place, is now located at Zion City, Ill.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of
CUT FLOWERS.
Consignments solicited. Prompt settlements.
Mention the Florists' Exchange when writing.

MOORE, HENTZ & NASH
WHOLESALE
AGENTS
COMMISSION FLORISTS
55 West 26th St. New York
Telephone Call: 756 Madleon Sq.
Mention the Florists' Exchange when writing.

The Florists' Exchange

American Beauties, Gardenias, Valley,

and everything else in Choice Flowers.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

CARNATIONS

In Any Quantity. No better stock coming to this market

Mention the Florists' Exchange when writing.

THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A.M. to 8 P.M. 1217 Arch St., Philadelphia, Pa

R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses, Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN 7.30 A. M. to 8.00 P. M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

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"GARDENIAS AND WHITE LILAC"

Mention the Florists' Exchange when writing.

SAMUEL S. PENNOCK

THE Wholesale Florist of Philadelphia

CUT TULIPS AND NOVELTIES

Mention the Florists' Exchange when writing.

PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

BERGER BROS.

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WM. J. BAKER

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Wholesale Florist
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Seasonable Cut Flowers
Fine Quality
Both 'phones.

Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Bet. Market and Chestnut Streets
Choicest Stock Always on Hand
Telephone 1-42-26-A.

Worcester, Mass.

Horticultural Society.

On January 5 was held the first of the Winter meetings. The opening address was made by President O. B. Hadwen, J. W. Stockwell, of Sutton, spoke on "A Trip to St. Louis." Some very able speakers have been engaged for this Winter's series of meetings; among them are: W. W. Rawson, of Boston; Edmund A. Engler, president of the Worcester Polytechnic Institute; George H. Moses, of Concord, N. H., Forestry Commissioner of the State of New Hampshire, and others. Secretary Hixon announces a new departure for 1905: \$50 has been appropriated for prizes for children. They will be encouraged to raise vegetables, as they always have been to raise flowers.

Jottings.

L. D. Bryant, of A. H. Hews & Co., was a late caller.

H. F. Littlefield is preparing to erect a new house, 256x31 feet, for carnations and roses. The contract has not been awarded, but a representative from Lord & Burnham has been over the field. CAROLUS.

Spencer, Mass.

Charles H. Green, who met a severe loss by fire December 15, is rapidly rebuilding. The fire could not have come at a more inopportune time. He had just stocked up with novelties, etc., for the Christmas trade, and these, together with his desk and all his papers, the accumulation of years, were destroyed in the office and potting house. The ends of two houses that abutted against the office contained a lot of roots and palms. All of these were lost. Mr. Green also feels keenly the loss of some very choice seed he had grown himself. There was no insurance. YENDOR.

Grafton, Mass.

Herbert J. Stone, who bought the greenhouse of Fisher & Son, is doing well for a beginner. His house is 175x25 feet, with a propagating house 50x10 feet. He is picking nearly a thousand carnations weekly. From 250 sweet pea plants he is cutting 1000 blossoms weekly.

Lord & Burnham Company have lately completed for Norcross & Stratton two houses 150x30 feet and 100x30 feet. A crop of radish will be followed by one of cucumbers, and then the houses will be devoted to carnations. RODNEY.

DUMONT & CO.

Wholesale Florists

Carnations a Specialty
No. 1305 Filbert St., Philadelphia
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J. B. MURDOCH & CO.

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WM. J. MOORE

Wholesale Florist
1235-37 FILBERT STREET
"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.
Bell and Keystone 'Phones.
Consignment of CARNATIONS and ASPARAGUS, Solicited.
Mention the Florists' Exchange when writing.

Worcester Conservatories

Wholesale Growers of
CUT FLOWERS
Prompt attention given all orders.
WORCESTER, MASS.
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Headquarters in Western New York



For ROSES, CARNATIONS
And all kinds of Seasonable Flowers.

WM. F. KASTING

Wholesale Commission Florist

ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS

383-87 Ellicott St. BUFFALO, N. Y.

GIVE US A TRIAL WE CAN PLEASE YOU

Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers - Per 100

Names and Varieties	Boston	Phil'delphia	Baltimore	Buffalo	Pittsburg
	Jan. 10, 1906	Jan. 11, 1906	Jan. 11, 1906	Dec. 29, 1904	Jan. 9, 1905
A. BEAUTY, fancy-special	20.00 to 40.00	..... to .....	..... to 50.00	..... to	50.00 to 75.00
" extra	10.00 to 20.00	60.00 to 80.00	25.00 to 35.00	..... to	30.00 to 40.00
" No. 1	8.00 to 10.00	40.00 to 60.00	15.00 to 20.00	..... to	15.00 to 20.00
" Culls and Ordinary	4.00 to 8.00	24.00 to 40.00	6.00 to 8.00	..... to	6.00 to 10.00
Queen of Edgely	..... to .....	..... to .....	..... to .....	..... to .....	..... to
Bride, 'Maid, fancy-special	8.00 to 10.00	..... to .....	..... to 10.00	..... to	10.00 to 20.00
" extra	6.00 to 8.00	..... to 15.00	..... to 8.00	..... to	12.00 to 15.00
" No. 1	4.00 to 6.00	10.00 to 12.00	..... to 6.00	..... to	8.00 to 10.00
" No. 2	2.00 to 4.00	5.00 to 8.00	..... to 4.00	..... to	4.00 to 6.00
Golden Gate	..... to	5.00 to 15.00	4.00 to 10.00	..... to .....	..... to
K. A. Victoria	..... to .....	..... to	4.00 to 10.00	..... to	4.00 to 10.00
Liberty	6.00 to 20.00	6.00 to 40.00	..... to .....	..... to	8.00 to 20.00
Meteor	..... to .....	..... to .....	..... to .....	..... to .....	..... to
Perle	..... to .....	..... to 60.00	3.00 to 6.00	..... to	4.00 to 8.00
ORCHIDS—Cattleyas	..... to .....	..... to 15.00	..... to .....	..... to .....	..... to
Cypridiums	..... to .....	..... to .....	..... to 1.50	..... to .....	..... to
Inferior grades, all colors	..... to .....	..... to	1.00 to 1.50	..... to	1.00 to 1.50
Carnations	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	..... to	1.50 to 2.00
STANDARD VARIETIES	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	..... to	1.50 to 2.00
" Pink	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	..... to	1.50 to 2.00
" Red	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	..... to	1.50 to 2.00
" Yellow and var.	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	..... to	1.50 to 2.00
*FANCY	2.00 to 3.00	3.00 to 4.00	2.50 to 3.00	..... to	3.00 to 4.00
(*The highest grades of Stand. var.)	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	..... to	3.00 to 4.00
" Pink	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	..... to	3.00 to 4.00
" Red	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	..... to	3.00 to 4.00
" Yellow and var.	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	..... to	3.00 to 4.00
(NOVELTIES)	4.00 to 6.00	..... to	4.00 to 6.00	..... to	6.00 to 8.00
ADIANTUM	.75 to 1.00	1.00 to 1.50	..... to 1.00	..... to .....	..... to 1.50
ASPARAGUS	..... to 50.00	25.00 to 50.00	25.00 to 50.00	..... to	30.00 to 60.00
ASTERS	..... to .....	..... to .....	..... to .....	..... to .....	..... to
CHRYSANTHEMUMS, ordinary	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" fancy	..... to .....	..... to .....	..... to 10.00	..... to .....	..... to
DABLIAS	..... to .....	..... to .....	..... to .....	..... to .....	..... to
DAISIES	..... to .....	..... to 1.50	..... to .....	..... to	1.50 to 3.00
GLADIOLUS	..... to .....	..... to .....	..... to .....	..... to .....	..... to
LILIES	10.00 to 15.00	..... to 20.00	12.00 to 15.00	..... to	20.00 to 25.00
LILY OF THE VALLEY	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	..... to	3.00 to 4.00
MIGNONETTE	1.00 to 3.00	4.00 to 5.00	3.00 to 5.00	..... to	2.00 to 3.00
" fancy	3.00 to 4.00	..... to 8.00	..... to .....	..... to	4.00 to 6.00
NARCISSUS	1.00 to 3.00	..... to	2.00 to 3.00	..... to	3.00 to 4.00
PANSIES	..... to .....	..... to .....	..... to .....	..... to	2.00 to 3.00
SMLAX	10.00 to 12.00	..... to 15.00	15.00 to 25.00	..... to	12.50 to 15.00
SWEET PEAS	..... to .....	..... to	1.00 to 1.50	..... to .....	.75 to 1.25
TUBEROSES	..... to .....	..... to .....	..... to .....	..... to .....	..... to
VIOLETS	.35 to 1.00	.50 to 1.50	.50 to .75	..... to .....	.75 to 2.50

BOSTON, MASS.

Asparagus Plumosus
Mignonette
Chrysanthemums
Lily Narrisii
Brides, 'Maids
American Beauties

WELCH BROS.

PROPRIETORS
CITY HALL CUT FLOWER MARKET
15 PROVINCE ST.—9 CHAPMAN PL.

Kaiserins
Violets
Carnots
Orchids
Valley
Carnations

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268
Mention the Florists' Exchange when writing.

CALL ON EUGENE BERNHEIMER

Carnations, Roses, Valley 11 South 16th Street, PHILADELPHIA

Mention the Florists' Exchange when writing.

Boston.

News Notes. In the absence of the new president, Arthur F. Estabrook, who is in Porto Rico, Vice-President Walter Hunnewell presided at the meeting of the Massachusetts Horticultural Society on Saturday last.

Indianapolis.

News of the Week. Baur & Smith, the Smith & Young Co. and Bertermann Bros. Co. have taken advantage of the glass prices and have laid in a large quantity to be used during the coming Summer.

New Orleans, La.

A new firm, to be known as the Metairie Ridge Nursery Company, with Harry Papworth as its president, will be formed here soon. The company will purchase a tract of land containing 200 acres on Metairie Ridge, land especially well adapted for the purposes intended.

John O'Brien, who has been manager in Carbone's flower store for the past eight years, has resigned his position.

Over two hundred dollars has been collected by the various salesmen in the two flower markets for the family of the late James Denning, whose untimely death was recorded in last week's notes.

William McAlpin and William Glidden are now salesmen for the J. A. Budlong & Sons Co.; the former has been with William H. Elliott for several years.

W. L. Lewis, of Marlboro, has been exhibiting his new white carnation Mrs. W. L. Lewis, in Welch Bros.' Flower Market the past week.

The next meeting of the Gardeners & Florists' Club will be held Tuesday evening, 17th inst. The meeting, which is the first of the year, promises to be of unusual interest.

Macmulkin has a very unique window decoration this week, the whole being laid out artistically as a southern home scene.

John Yeager, for the past two years with Peter Fisher at Ellis, has resigned his position and accepted one with the J. D. Thompson Carnation Co., Joliet, Ill.

George Buxton, of Nashua, N. H., one of the leading growers for the Boston market, came nearly being flooded out with the excessive rains of last Saturday.

The many friends of Wm. Molloy are glad to see him back again in the Market.

A great many of the local growers are reported on the sick list, suffering from severe colds, or attacks of la grippe. The list includes E. Allan Peirce, John J. Fee, E. Sutermeister, H. A. Budlong, the local representative of the J. A. Budlong & Sons Co., and Al. Hudson, salesman for W. H. Elliott.

Robert Cameron, of the Harvard Botanical Gardens, has been confined to his home for several days with an attack of the grip.

The wagon of Hoffmann, the Back Bay florist, met with a bad accident on Monday evening. While driving down Commonwealth avenue the wagon was struck by an electric car and made a total wreck.

UTICA, N. Y.—David Dean, of A. T. Boddington Co., New York, was calling on the trade on Thursday. Business is good all along the line; a great many parties are on now. QUIZ.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

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The Largest, Best Equipped, Most Centrally Located Wholesale Cut-Flower House In Chicago Wholesale Cut Flowers Consignments Solicited. 32, 34, 36 Randolph St., CHICAGO, ILL. 51 and 53 Wabash Avenue, CHICAGO

CHARLES W. McKELLAR

Wholesale Commission Florist And Dealer in all Florists' Supplies 51 WABASH AVENUE, CHICAGO

Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Table with columns: Names and Varieties, Chicago Jan. 10, '05, St. Louis Jan. 7, '05, Cincinnati Jan. 9, '05, Milwaukee Jan. 9, '05, Toronto. Rows include A. BEAUTY, fancy-special, Queen of Edgely, Golden Gate, K. A. Victoria, Liberty, Meteor, Perle, ORCHIDS—Cattleyas, Interior grades, all colors, STANDARD VARIETIES, Carnations, ADANTUM, ASPARAGUS, ASTER, CHRYSANTHEMUMS, DAHLIAS, DAISIES, GLADIOLUS, LILIES, LILY OF THE VALLEY, MIGNONETTE, NARCISSUS, PANSIES, SMILAX, SWEET PEAS, TUBEROSES, VIOLETS.

HOLTON & HUNKEL CO.

Wholesale Florists Florists' Supplies Manufacturers of Wire designs. 457 Milwaukee Street, MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25 MANUFACTURED BY W. J. COWEE, Berlin, N.Y. Samples free. For sale by dealers. Mention the Florists' Exchange when writing.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always. Size No. 0 ... 3x 4x20 ... \$2.00 per 100; \$19.00 per 1000

FLOWER GROWERS' MARKET

60 WABASH AVE., CHICAGO Sell Your Stock There See PERCY JONES, Manager Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS. Mention the Florists' Exchange when writing.

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Wholesale Growers CUT FLOWERS and Shippers of 58-60 Wabash Ave., Chicago, Ill. With the Flower Growers' Co. TELEPHONE, CENTRAL 8067. All telephone and telegraph orders given prompt attention. Mention the Florists' Exchange when writing.

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THE LIVINGSTON SEED CO., Box 104, Columbus, O. Mention the Florists' Exchange when writing.

CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY
Window Glass, Painters' Supplies.
9 Washington Ave., 31st Ward, Pittsburg, Pa.
929 Carson Street.
Mention the Florists' Exchange when writing.

H. KENNEY

88 Rochester Ave., Brooklyn, N. Y.
Telephone, 742-A Bedford

WIRE Designs, assorted, \$10.00 per 100.
Select Sphagnum MOSS, \$1.50 per bale.
Green MOSS, 75c. per bag. Can deliver
from 1 to 100 bales at short notice. Will ship
to any part of the country.
Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
150 2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20
150 2 1/2 " " " " 5.25	60 8 " " " " 3.00
150 3 " " " " 5.00	HAND MADE
100 3 " " " " 5.00	48 9 in. pots in crate, \$3.60
800 3 1/2 " " " " 5.80	48 10 " " " " 4.80
500 4 " " " " 4.50	24 11 " " " " 3.60
320 5 " " " " 4.51	12 12 " " " " 4.50
144 6 " " " " 3.16	6 16 " " " " 4.50

Seed pans, same price as pots. Send for price list
of Cylinders for Cut Flowers, Hanging Baskets, Lawn
Vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts. 51 Barclay St., N. Y. City
Mention the Florists' Exchange when writing.

WHY NOT BUY
RED POTS
OF US?
STANDARD SIZE
Quality—No Better.
Carefully packed in Small
Crates. Easy to handle.
Price List Free.
Syracuse Pottery Co.
Syracuse, N. Y.
Best Pot in the
Market

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ESTAB. 1765
A. H. HEWES & CO.
No. CAMBRIDGE
MASS.
L. I. CITY
N. Y.
CATALOGUE
FREE

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EDITORS OF THE "H. A." Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION
Mention the Florists' Exchange when writing.

Baltimore.

News of the Week.
At the club meeting, held last Monday night, the question of a chrysanthemum show came up again, and it was once more decided that there be no show next Fall. There seems to be some doubt among the majority of the members of making a show successful.

The Florists' Exchange held its annual stockholders' meeting on Monday. The following directors were elected: E. A. Seidewitz, I. H. Moss, Edward Akehurst, F. C. Bauer, J. M. Rider, William G. Lehr and Fred G. Burger. The directors elected the following officers: J. M. Rider, president; F. C. Bauer, vice-president; Edward Akehurst, secretary; W. G. Lehr, treasurer. The yearly report of the management of the Exchange showed an increase in business over the preceding year of about 35 per cent., which is considered a remarkable showing, when our great loss by fire during the year is considered.

William B. Sands, of Lake Roland, Md., one of our largest and most successful rose growers, has been elected chairman of the Committee on Schools of Arts and Designs of the Maryland Institute of this city, in which capacity he has general oversight of the forty teachers and thirteen hundred pupils, which are included in the popular and useful technical school. The institute, which had its property destroyed in the great fire of last February, has recently received about half a million dollars to re-establish it—\$175,000 from the State, and over \$300,000 from Andrew Carnegie and other liberal friends of education. Judge Sands (as familiarly known) has been a member of the Board of Managers for about ten years.

George Eberle, who for many years was in the employ of G. C. Personette, has started in business on his own account on Canton avenue.

Messrs. Hess & Wolf, of So. Charles street, and Messrs. Kennedy Bros., of Fremont street, have discontinued the store business. JOHN J. PERRY.

HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
10 Desbrosses St., New York
Mention the Florists' Exchange when writing.

L. WERTHEIMBER & CO.

Dealers in Foreign and Domestic Specialties and Florists' Supplies,
No. 39 BARCLAY ST., NEW YORK
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Evans Improved Challenge
Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
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In Bags, \$18.00 per Ton
Special price on car load lots in bulk
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STANDARD FLOWER POTS

THE WHILLDIN POTTERY COMPANY

Travelling Representative: PHILADELPHIA, PA., JERSEY CITY, N. J.
U. CUTLER RYERSON, 108 Third Ave., Newark, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.

Cincinnati.

News Greetings.
The thermometer this (Tuesday) morning was 6 below, with a promise of several days of zero weather, plenty of snow, and now plenty of coal and with plenty of money to buy it, why should we mortals complain? Looking over the Christmas reports from nearly all over the country, they show an increase of business over former years; and the former years were thought to be great. At this steady increase from year to year the florists will soon all be millionaires.

Julius Baer has rented the two stores on Fourth street, only a few doors from his present location. He will furnish same nicely, and will have the largest retail store in this part of the country.

Hardesty & Co. report that their branch store in Lexington, Ky., is doing a fine business. Lexington is, and always has been, one of the best flower cities in Kentucky.

Miss Shanahan, of Avondale, had a fine lot of Japanese plants blooming for Christmas; these she imported direct. They sold fairly well.

I do not hear of many florists from this section going to attend the Carnation Society's meeting; but as the time draws near more enthusiasm may be shown. The C. H. & D. R. R. seems to be the florists' road out of Cincinnati; and we shall probably all go by that route. The rates are a fare and one-third on the certificate plan. We shall leave this city on the evening of the 24th. All in this vicinity who intend making the trip are cordially invited to join us. E. G. GILLETT.

Orange, N. J.

News Notes.
Christmas trade was slightly in advance of last year's. Preference was shown for bright colors. Potted plants sold well, only a few cyclamens being left over. Primulas, poinsettias and solanums were closed out early; and the bells and wreaths were disposed of before the competition of the department stores made itself felt. One of the best strikes was made by Hales, with sweet peas, planted in September in a solid bed with drainage of cinders, over which boards were placed and then five inches of soil. They were grown cool and came out on time. Flowers have graced most of the social events of the season. Several dinners at the Country Club have been in the hands of George Smith, as was also the work for the funeral of Mr. Douglas, of R. G. Dun & Co. Burns & Floringer have gone out of business at East Orange. J. B. D.

SCHENECTADY, N. Y.—J. E. Felt-housen reports that plant trade this season is far ahead of that of previous years; and that prices are better than those obtained in the past ten years, owing to the early frost last Fall. So many got caught then, that orders have been doubled in many cases.

Best kind, best of its kind for all hand work, is the
Success Knapsack Sprayer
Knapsack and Bucket Sprayer Combined.
Brass pump with bronze ball valves, 5 gal. copper tank, mechanical agitator; pump worked with either hand. Arranged for easy carrying and handling.
WE MAKE 20 STYLES SPRAYERS.
Hand, Bucket, Knapsack, Barrel, Field, Power. We meet all wants. Send for free catalog.
THE OEMING CO., SALEM, OHIO.
HENION & RUSSELL, Western Agts., Chicago.
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FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERGE CO.
170 Fulton St., NEW YORK
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WILL WAKE YOU UP

IF THE HOUSE GETS COLD
Keeps tab on the Night Man.
Electrical Thermostat Alarms
Send \$2.25 for sample. With batteries and bell, \$3.50.

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Kroeschell Bros. Co. IMPROVED Greenhouse Boiler

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Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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GREENHOUSE MATERIAL
ANY DESCRIPTION
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GREENHOUSE LUMBER

Now is the Time

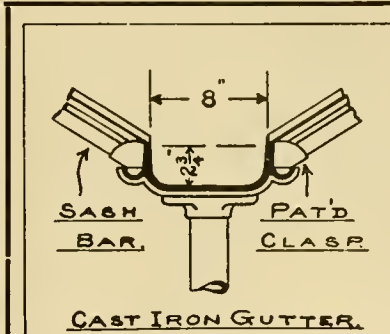
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The TORRIDOOR BLUE FLAME COMBUSTION REGULATOR will do it. Can be attached to any boiler or heater at any time. Far exceeds all other devices in saving fuel and maintaining all night even temperature. Prevents escape of gases. Has completely effective adjustability for quickly starting and shutting off fires without banking. Has all the advantages of competitors and none of their serious defects. Endorsed by the best experts in the trade.

A HUNDRED PER CENT. INVESTMENT.

If you buy a boiler and it is not a TORRIDOOR, insist that the maker furnish you a TORRIDOOR REGULATOR. It will cost him little and save you much. Send for valuable "Hints on Heating" to

THE WILLOWMEAD CO., East Orange, N. J.

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"Music hath charms"
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GREENHOUSE MATERIAL

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THE FOLEY MANUFACTURING CO.

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Cypress woodwork & hot-bed sash, Tennessee Red Cedar posts
FOLEY ventilating apparatus & hardware specialties
Galvanized screw eyes, screwhooks, turnbuckles & wire
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For GREENHOUSES, GRAPERIES, HOTBEDS, CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.

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BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

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The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

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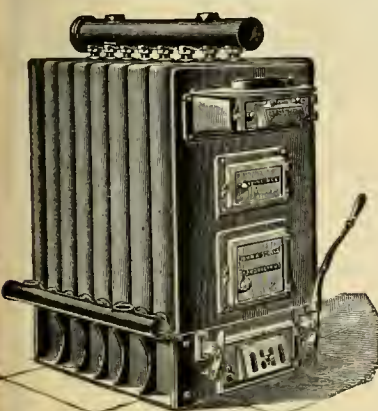
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Iron Cutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.

A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.



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FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

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Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.

Horticultural building of every description.

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 New Roof Construction, Automatic
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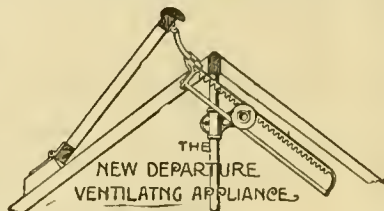
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 CYPRESS SASH BARS
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ASPARAGUS DECUMBENS, 1 in. pots, 75c
 per doz., \$5.00 per 100.
 ASPARAGUS SPRENGERI, 2 in. pots, \$2.00
 per 100; \$15.00 per 1000; 500 at 1000 rate.
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 CARNATIONS. Rooted cuttings. Write for
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 For Hot Water or Steam
 HOT WATER Radiation from
 4,200 Square Feet and Up.
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 Send four cents postage each
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 233 Mercer St., NEW YORK.
 ESTABLISHED 1844.

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LET ME ESTIMATE ON YOUR HEATING

Before signing your heating contract get my figures using the well-known Furman
 Sectional Boiler. Plans and Estimates furnished.
 Competent Greenhouse Mechanics to install your heating or repair work.
 Fittings, Valves, Tanks, Ventilating Apparatus, Iron Purlins, etc., etc.

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 Telephone 174 J. Bergen.

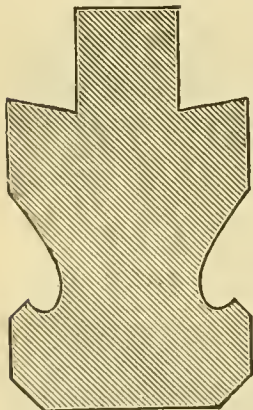
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 Importers and Manufacturers of
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Immortelles, Ruscus Wreaths and Baskets for Plants
 IN MANY STYLES

50 to 56 N. Fourth St., - - Philadelphia, Pa.
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GULF CYPRESS Greenhouse Material



Cut and Spliced
 Ready for Erection

Hot Bed Sash

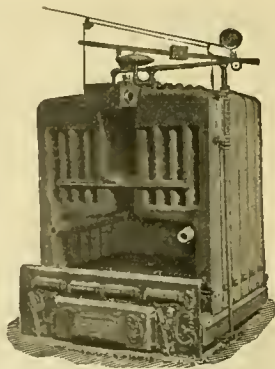
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We furnish everything
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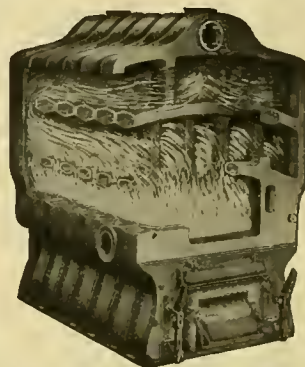
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Pierson Boilers

For Steam and Water
 are unsurpassed for efficiency
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Messrs. Righter & Barton, Madison, N. J., write: "August 5, 1904. The two
 Pierson sectional hot water boilers installed for our new houses one year ago gave excep-
 tional satisfaction during the past winter, the most severe for many years, easily fulfilling
 what was expected of them, at the same time proving to be economical.
 We found them very easy to manage, that they responded promptly and heated the
 water in short time, thus giving splendid control of temperature in houses when sudden
 drop took place outside."

This is only One of Many
WE ALSO MANUFACTURE AND SUPPLY
FITTINGS, VALVES, PIPE AND EVERYTHING FOR HEATING
 Write for Catalogue and Prices

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Absolutely Safe and Reliable. Ask your friends.

Dame Nature's Tantrums bring no fears to the
 owner of a

Caldwell Tank and Tower
 because he knows that her fiercest bluster will not
 prevail against the tower, nor her frostiest glance
 penetrate to the contents of the tank.

LET US TELL YOU WHY
W. E. CALDWELL CO., Louisville, Ky.

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NICOTICIDE KILLS

Green Fly



Mr. J. A. Budlong, Chicago,
 March 11, 1904, says:

"We have been using Nicoticide
 on our whole place now for some
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 tory fumigant we have ever used.
 We heat entirely by steam, and paint
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 application works well and is cer-
 tainly very effectual."

Thrips



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Our Gallery of Fine Specimens



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Plate 91

ABIES (PICEA) NOBILIS

Growing on the grounds of the Department of Agriculture, Washington, D. C. This tree does not get injured in Winter in the Middle States. Those who have seen this fir growing wild described, as being of great beauty, and of lofty growth, attaining a height of 200 to 300 feet.



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

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

Vol. XIX. No. 3

NEW YORK, JANUARY 21, 1905

One Dollar Per Year

WHITE LAWSON

which we introduced last season has given great satisfaction, and has proved to be the **finest White Carnation ever sent out.**

This is bound to occupy the same place among white carnations that **MRS. THOS. W. LAWSON** has among pinks.

Remember that we are Headquarters for it

The demand undoubtedly will exceed the supply this season, and in order to secure early delivery orders should be placed soon.

We Are Now Booking Orders for Early January Delivery

First-class, strong Rooted Cuttings, \$7.00 per 100; \$60.00 per 1000

Also all the

OTHER NOVELTIES OF THE SEASON

Fiancee, Cardinal, Fred. Burki, etc.

Also the **CREAM OF THE OLDER SORTS—**

Mrs. M. A. Patten, Daheim, Enchantress, Flamingo, Mrs. Thos. W. Lawson, etc.

F. R. PIERSON CO., Tarrytown-on-Hudson, N.Y.

Good Forcing Stock for Easter

SPIRÆAS

Ready now, packed in cases of 150 clumps. Orders for case lots will be furnished at the thousand rate.

Japonica.....	Doz. 100	1000	Gladstone.....	Doz. 100	1000
Compacta Multiflora.....	\$0.75	\$4.00	Superbe.....	\$1.50	\$10.00
Astilboides Floribunda.....	.75	5.00	Washington.....	1.00	6.00
				1.25	8.00

DEUTZIAs—Pot-grown

Now ready for 6-inch pots.

Gracilis.....	Ea. Doz. 100	\$0.15 \$1.50 \$12.00
Lemoinei.....	.25 2.50 18.00	

LILACS—For Forcing

Pot-grown, now ready for 8-inch pots.

Marie Legraye.....	Ea. Doz. 100	\$0.75 \$8.50 \$45.00
Chas. X.....	.75 8.50 45.00	
Mme. Cassimir Parier.....	1.00 9.00 60.00	
Mme. Lemoinei.....	.75 8.50 45.00	

ROSES LOW-BUDDED, for EARLY FORCING, Etc.

HYBRID PERPETUAL. Low-Budded, 2-year-old

Abel Carriere	Duke of Connaught	Geant des Batailles	Mme. Charles
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PRICES OF ABOVE SORTS: Dormant plants, purchaser's selection, \$100.00 per 1000; \$11.00 per 100; 65c. for bundle of 5. Not less than 5 of any one variety sold.

TEA and HYBRID TEAS. Low-Budded, 2-year-old

American Beauty	Caroline Testout	Gloire de Dijon	Malmesdon
Kaiserin Aug. Victoria	President Carnot	Hermosa	Gloire Lyonnaise

90c. for 5; \$15.00 per 100.

MAMAN COCHET, pink and white, 2-year-old, own root, American grown. The finest of all roses for florists, either for indoors or outside. Price, per bundle of 10, \$1.25; \$11.00 per 100, and \$100.00 per 1000.

CRIMSON RAMBLERS

LARGE DORMANT PLANTS, AMERICAN GROWN, 2-year-old, 4 to 5 feet long, with many branches, each, 25c.; per 5, \$1.00; per 100, \$15.00. Second Size, 2½ to 4 feet long, each, 20c.; per 5, 75c.; per 100, \$12.00.

BABY CRIMSON RAMBLER, Mme. Levayasseur, field-grown plants, for immediate delivery, \$35.00 per 100; \$5.00 per doz.; 50 cts. each.



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CUT STRINGS

OF

Asparagus Plumosus Nanus

First-class Stock, Running Even and Full

50 CENTS EACH

Asparagus Plumosus Nanus Seeds

THESE ARE THE TRUE VARIETY

75 Cents per 100

W. H. ELLIOTT, Brighton, Mass.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

3,000 ETHEL WARD	\$2.00 per 100	2,000 PROSPERITY	\$2.00 per 100
2,000 THE PRESIDENT	\$60 per 1000	3,000 MACKINAC	\$15.00 per 1000
2,000 WHITE LAWSON		2,000 THE BELLE	\$6.00
5,000 ENCHANTRESS	\$4.00 per 100	2,000 LADY BOUNTIFUL	Per 100
2,000 CHRISTMAS EVE	\$30 per 1000	3,000 JUDGE HINSDALE	\$50.00
2,000 GOLDEN EAGLE	\$5.00 per 100	2,000 MRS PATTEN	
1,000 HARRY FENN	\$3.00 per 100	2,000 NELSON FISHER	Per 1000
5,000 LAWSON	\$25.00 per 1000	2,000 OCTOON	
		2,000 FLAMINGO	

50 of a kind at 100 rate; 250 of a kind at 1000 rate

COTTAGE GARDENS COMPANY (INC.), QUEENS, N. Y.

C. W. WARD, Manager

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- Smilax 35c. per oz.; \$3.50 per lb.
- Asparagus Plumosus Nanus 100 seeds, 75c; 1000 seeds, \$6.50.
- Verbena Mammoth, separate colors, or mixture, oz., \$1.00.
- Stocks Cut-and-Come-Again, pure white, trade pkt., 25c.
- Sphagnum Moss bale, 85 lbs., \$2.00.
- Lily of the Valley Hamburg Pips, case 2,500, \$24.00.
- " " " extra size, 100, \$20.00.
- Lily of the Valley Clumps (Dutch). 100, \$8 00.
- Mushroom Spawn 8 lbs., \$1.00.

WM. ELLIOTT & SONS, NEW YORK

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HAVING BEEN AWARDED THE **GRAND PRIZE**

For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR COWEE**, Gladiolus Specialist, Meadowvale Farm, Berlin, New York

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LANDRETHS' SEEDS

Before placing Your Order elsewhere ask us our prices for choice Seeds

Bloomsdale, Bristol, Penna.

FRESH CROP

Cocos Weddeliana Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000

Asparagus Plumosus Nanus Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000.

New Crop Just Received.

STUMPP & WALTER CO., 50 Barclay St., New York

Branch Store 404 East 34th St., N. Y.

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Wholesale Importer and Exporter of

Bulbs, Plants, Roots, Etc.

All Inquiries Cheerfully Answered

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Asparagus Plumosus Nanus SEED

250,000 present season growth \$2.25 per 1000. In quantity to suit. February delivery. Early orders requested.

REES & COMPERE, R.F.D. No. 1, Long Beach, Cal.

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Asparagus Plumosus Nanus Seeds

Our own growing, just ripening on selected plants, 100 seeds 50c; 500 seeds \$2.00; 1000 seeds \$4.00.

B. H. HAVERLAND, Pleasant Run, Ohio.

Mention the Florists' Exchange when writing.

ASTER SEED

That will produce the finest flowers, perfectly double 4 1/2 in. across. The shell-pink is the most beautiful Aster that grows, Simple's shell pink and white.

1/4 oz., 50c.; 1/2 oz., \$1.00; oz., \$1.50.

A. W. SAMPSON, Penn Yan, N. Y.

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NEW CROP FLOWER SEEDS

Asparagus Plumosus Nanus, 100 seeds, 60 cts.; 1000 seeds, \$5.00.

Begonia, Vulcan and Bonfire, trade pkt., 25 cts.

Cyclamen Giganteum, 100 seeds, 60 cts.; 1000 seeds, \$5.00.

Petunia Fimbriata Grandiflora, trade pkt., 50 cts. double, \$1.00

Salvia, Bonfire, trade pkt., 25 cts.; oz., \$2.25.

Splendens, trade pkt., 20 cts.; oz., 80 cts.

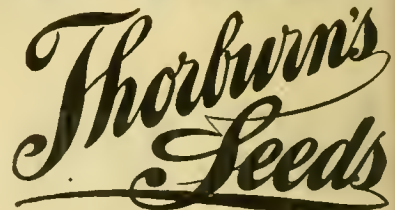
Stocks, Dwarf Ten Weeks, trade pkt., 25 cts.; oz., \$2.75.

Verbena, Mammoth, trade pkt., 20 cts.; oz., \$1.00.

FRESH TOBACCO STEMS, bale of 300 lbs., \$1.60.

W. G. BECKERT, Allegheny, Pa.

Mention the Florists' Exchange when writing.



LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLendid CONDITION

Per case of 3000 for - - - \$24.00

Two or more cases at \$7.50 per 1000

J. M. THORBURN & CO.
36 Cortlandt St. New York

Mention the Florists' Exchange when writing.

Dreer's New Crop Reliable Flower Seeds

The following is a short list of Flower Seeds which should be sown early to make good stock for Spring sales. For complete list see our Wholesale Price List for January, copies of which have been sent to all florists.



Verbena.

	Trade pkt.	Per oz.
Ageratum Blue Perfection, dark blue.....	\$0.15	\$0.50
Asparagus Plumosus Nanus, true, \$1.00 per 100 seeds; \$7.00 per 1000 seeds		
" Sprengerl.....	\$0.75 per 1000 seeds; \$3.00 per 5000 seeds	
Begonia Vernon.....	.25	
" Grandiflora.....	.25	
Brownia Speciosa Major.....	.50	
Centarea Candidissima.....	25c. per 1000 seeds	1.50
Gymnocarpa.....	.16c.	.35
Cheraria Maritima Candidissima.....	.10	.20
" Acanthifolia.....	.20	.75
Cyclamen Persicum, mixed.....	.40	2.50
Giganteum, white, rose, blood-red, or white with red eye.....	75c. per 100 seeds; \$8.00 per 1000 seeds	
Giganteum, mixed.....	.50c.	5.00
Heliotrope, Lemoine's Giant, mixed.....	.40	2.00
Ipomoea Grandiflora (Moonflower).....	.15	.60
Lobelia, Crystal Palace Compacta, true.....	.30	1.25
" Speciosa, dark blue trailing.....	.15	.50
" Gracilis, light blue trailing.....	.15	.40
Nicotiana Sandera, the new red-flowering.....	.17c. per pkt; 7 pkts., \$1.00	
Pansy, Royal Exhibition Mixture, the finest money can buy.....	.50	8.00
" Premium, next to our Royal Exhibition the finest mixture.....	.50	4.00
" Giant Trimardean, a fine mixture, large flowers.....	.25	1.00
Petunia, Dreer's Superb Double Fringed, 75c. per 500 seeds; \$1.50 per 1000 seeds		
" " Single Fringed.....	.50	
Phlox Drummond Grandiflora, mixed.....	.15	.40
" " Large-Flowering Dwarf, mixed.....	.20	.75
" " Nana Compacta, mixed.....	.30	1.50
Pyrethrum Aureum (Golden Feather).....	.10	.25
Salvia Splendens (Scarlet Sage).....	.25	1.00
" " Bonfire, fine, compact.....	.40	2.25
" " Burning Bush, very large flowers.....	.30	1.50
Smilax.....	1/4-lb., \$1.00	.30
Solanum Capsicastrum (Jerusalem Cherry).....	.10	.25
Stocks, Large-Flowering, 10-Weeks, in separate colors.....	.40	2.50
" " " mixed.....	.30	2.00
" " Cut-and-Come-Again, in separate colors.....	.50	2.60
" " " mixed.....	.50	2.60
Sweet Peas, 50 of the finest kinds in cultivation. See Wholesale Price List.		
Thunbergia, mixed.....	.10	.50
Verbena, Dreer's Mammoth, white, pink, scarlet, purple or striped.....	.30	1.50
" finest mixed.....	.25	1.00

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

CANNAS

Dormant Roots (Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italia, Austria, Queen Charlotte, Paul Marquant, Flamingo, Shenandoah (dark foliage), Fair Persian, Morning Star, Fl. Washington)

CLUCAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK

Mention the Florists' Exchange when writing.

\$15.00 per 1000; \$2.00 per 100. Mixed All Colors \$10.00 per 1000; \$1.50 per 100.

JOHNSON & STOKES'

NEW CROP FLOWER SEEDS FOR EARLY SOWING

Table listing various flower seeds such as Ageratum Blue Perfection, Alyssum Little Gem, and Asparagus Plumosus Nanus with prices per packet and ounce.

Tested Seeds of the Highest Quality



Table listing Mammoth Verbena Seed, Stock Princess Alice, and Thunbergia with prices per 1000 seeds and per ounce.

THE PERFECTION FORCING CUCUMBER Greenhouse Grown Seed

Announcement by critical Market Gardeners and Commission Merchants of Boston regarding the Perfection Forcing Cucumber.

JOHNSON & STOKES, 217 & 219 MARKET ST. Philadelphia, Pa. Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANTS SEND FOR CATALOGUE. ARTHUR T. BODDINGTON 342 West 14th St., New York.

FOR SEASONABLE Bulbs and Seeds Look up our advertisement in issue of January 14. H. H. BERGER & CO., 47 Barclay St., New York

THE HARDY ANNUAL OF THE CENTURY Nicotiana glauca. Silver Medal Massachusetts Horticultural Society, 1901. SANDER & SONS, St. Albans, England.

WARD'S HIGH GRADE Bulbs & Plants RALPH M. WARD & CO. 17 Battery Pl., NEW YORK

SHAMROCK ...IRISH... Strong and fine plants. XXX SEEDS Verbena, Improved mammoth, the very finest grown, mixed. Cineraria, Finest large flowering dwarf.

BULBS Lilium Canadense, Superbum, Umbellatum, Rubrum, Ismene Grandiflora. JOHN LEWIS CHILDS, Floral Park, L.I.

THE SEEDS We offer have been grown and collected with a special view to giving satisfaction for Florists' use. BENJ. SILL & SONS 116 Main St., Long Island City, N. Y.

EXTRA CHOICE Flower Seeds List free on application. FRED. ROEMER, Seed Grower QUEDLINBURG, GERMANY.

Manetti Stocks For grafting purposes now ready. Send in your order early. THE ELIZABETH NURSERY CO., Elizabeth, N. J.

NEW CROP FLOWER SEEDS Asparagus Plumosus Nanus We are headquarters for New Crop Seeds. Asters, Queen of Market, Phlox Nana Compacta, Mixed, Salvia Bonfire, Verbena, Michell's Fancy Mixed.

Florists' Flower Seeds NEW CROP NOW READY. WEEBER & DON, Seed Merchants and Growers, 114 Chambers Street, NEW YORK

RAWSON'S Arlington Tested Seeds for Florists. W. W. RAWSON & CO. 12 Faneuil Hall Square, BOSTON, MASS

NEW CROP FLOWER SEEDS For Present Sowing. 10 PER CENT. SPECIAL CASH DISCOUNT on orders over \$2.00 for Flower Seeds if the cash is enclosed. ASPARAGUS PLUMOSUS NANUS. ASTERS. VAUGHAN'S SEED STORE

CRIMSON RAMBLER

16950—No. 1, own roots..... \$12.00 per 100
 24825—No. 2, " " 8.00 "
 Northern-grown, for delivery December 20.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.

AT ST. LOUIS A GRAND PRIZE WAS AWARDED ON VEGETABLES, THE PRODUCTS OF— BURPEE'S SEEDS!

If you garden you want THE BEST,—and we shall be pleased to mail you BURPEE'S FARM ANNUAL for 1905, an elegant new book of 178 pages, which tells the plain truth, with hundreds of illustrations, beautiful colored plates, and describes superb Novelties of unusual merit.

If you garden for profit or are a florist you should also have Burpee's "Blue List" or Wholesale Price-List for Market Gardeners and Florists.

Write TO-DAY! A postal card will do, while it is sufficient to address simply **BURPEE, PHILADELPHIA**
W. ATLEE BURPEE & CO., The World's Largest Mail Order Seed Trade

Mention the Florists' Exchange when writing.

CAL. PRIVET, one, two and three years; offer will be accepted on lots of 5,000 to carloads.
RIVER VIEW NURSERIES, J. H. O'HAGAN,
 Little Silver, N. J.
 Mention the Florists' Exchange when writing.

NEW CROP SEEDS For present sowing—
 Cryptomeria Japonica,
 Eucalyptus globulus resinifera, Cupressus Lawsoniana,
 Phlox Drummondii nana compacta,
 Petunia gigantea, Verbena mammoth, stocks,
 dwarf Tea Weeks, trade pkt. 25c.; trade list free.
Shellroad Greenhouses, Grange P. O., Balto., Md
 Mention the Florists' Exchange when writing.

HELLER'S MICE PROOF SEED CASES.

Send for Circulars
HELLER & CO.
 Montclair, N. J.

Mention the Florists' Exchange when writing.

Bay State Nurseries

High grade Nursery Stock of every description; free from disease; carefully packed; prices reasonable. Personal attention given to every order.
Rhododendron Maxima and Kalmia Latifolia in carloads or smaller quantity.
 Wholesale Trade List on application.

Windsor H. Wyman, North Abingdon, Mass
 Mention the Florists' Exchange when writing.

It takes \$20,000 worth of postage stamps to mail

the Maule SEED

catalogue for 1905. It contains 152 large pages, full of illustrations and descriptions of the best and newest things known in horticulture. No gardener can afford to be without this book, which will be sent free to all sending me their address on a postal card.

Wm. Henry Maule, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mention the Florists' Exchange when writing.

ASK FOR OUR SPECIAL PRICES ON EARLY SPRING SHIPMENTS OF

THE GENUINE
Picea Pungens Glauca
Koster Compacta

The purest, bluest strain, of perfect shape and unsurpassed quality, in large quantities. Plants from one foot to 4½ feet; transplanted stock with good balls and fibrous roots,

Also in quantity, **Hardy Fancy Evergreens**, in the best varieties. Extra large **AZALEA MOLLIS SEEDLINGS** and **AZALEA PONTICA**, named varieties, suitable for lawns, etc.

Catalogues Free on Request.

J. BLAAUW CO., Boskoop, Holland
NURSEYRMENTEN

Mention the Florists' Exchange when writing.

W. & T. SMITH COMPANY

Geneva, N. Y.

Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vines Fruit Trees and Small Fruits.

WHOLESALE PRICE LIST SENT ON REQUEST

Mention the Florists' Exchange when writing.

August Rölker & Sons, 31 BARCLAY STREET, New York
 P. O. Box 752.

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. (We supply the trade; send for lists and offers.) Orders booked now for Spring and Fall Deliveries.

Mention the Florists' Exchange when writing.

Seed Trade Report.**AMERICAN SEED TRADE ASSOCIATION.**

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

The general appraisers have decided that the duty of 40 cents per bushel imposed by paragraph 249, tariff act of 1897, upon onions is to be assessed upon the basis of 57 pounds to the bushel, that being the practice in the custom house which has been long continued, and is not shown by satisfactory evidence to be erroneous.

The Chicago and Northwestern Railway is planning a "pure seed special" train, which will traverse the company lines in South Dakota, Minnesota and other states this Winter. Stops will be made at every village and way station, and four agricultural experts will give free instruction to farmers on the cure and use of seed grain and the production of larger and better crops.

ST. JOSEPH, MO.—A. G. Samuel, president and manager of the Missouri Valley Seed Company, has resigned. J. Good, temporary trustee, will act as general manager of the company. The United States court takes this action on the petition of bankruptcy recently filed.

CLARINDA, Ia.—The A. A. Berry Seed Company, which from a humble beginning five years ago has grown to an immense business, has been incorporated with a paid up capital of \$75,000, with the following officers: A. A. Berry, president; M. R. Ausbach, vice-president; W. C. Affeld, secretary, and A. F. Galloway, treasurer.

NEWPORT, R. I.—Frank A. Rich, representing Joseph Breck & Sons' Corporation of Boston, Mass.; John P. A. Guerineau, of the Schlegel & Fottler Company, Boston, Mass.; Leggett & Bro., of New York, had their Mr. Clapp here this week; M. Rice & Co., of Philadelphia, Pa., were represented by Arthur Zirkman; Mr. Grey, of Thomas J. Grey & Co., of Boston, Mass., was also here. Every one of these gentlemen report trade as very satisfactory indeed. F. W.

BOSTON.—W. W. Rawson & Co. have been exhibiting nests of the brown tail and gypsy moths in their windows the past week with a view to calling attention to the different insecticides handled by them.

Joseph Breck & Sons, Inc., are busy mailing their catalogue this week.

Spring orders are already reported to be coming in at least a month ahead of last year.

John Beaton, of Farquhars, is in Lenox this week.

Visitors the past week have been Alfred J. Brown, of the Alfred J. Brown Seed Co., Grand Rapids, Mich.; Henry McCullough, of J. M. McCullough, Cincinnati, O.; George S. Green, of the Illinois Seed Co., Chicago, and Mr. Sanderson representing J. M. Thorburn & Co., New York.

J. W. D.

NEW HAVEN, CONN.—The Frank S. Platt Company has purchased the four-story brick front property at 54 State street. The purchase price is reported to be about \$50,000. The property has a frontage of 50 feet and extends 30 feet to the rear. The new premises will be used on the upper floors by the Platt concern, which will put in an elevator, for the display of poultry supplies, seeds and farm machinery of various kinds. The increase of the out-of-town business of this firm has rendered such an improvement a positive necessity. The growth of the Platt firm has been constant. In 1877 the senior members of the firm purchased the seed department from the R. B. Bradley Co., which was founded in 1848. In 1901 the firm was incorporated under its present style. Since then this firm has been continually enlarging its warehousing capacity, and its latest acquisition will give it still better facilities for the taking care of the wants of its various patrons.

A TURN IN THE TIDE.—At last the effort to purchase cheap seeds, seems, in one case at least, to have ceased, for the Government purchasing agent of one Western State sends in to a certain seed house many separate orders for the various institutions that State having kitchen or ornamental gardens, saying: "Fill the orders with the best seeds, and at fair prices. We are tired of the quality, or rather, the want of quality of seeds, obtained by us in the past under the system of competitive prices. We are done getting seeds under that plan."

LIMA BEANS FOR MARKET.—Lima-bean raising, as a commercial industry, is confined to a limited section in Southern California. In these valleys some sixty thousand acres are annually seeded and produce practically the world's supply of limas.

Three-fourths of the land planted to these nitrogenous legumes lies in the fertile Santa Clara valley of the south, in Ventura county, and here is situated the largest lima bean farm in the world, the famous Dixie Thompson ranch, of nearly three thousand acres. In favorable seasons in the best soils, twenty-five eight-pound sacks per acre are produced; but 1,500 pounds per acre average is considered a very good crop.

Lima bean growers state that this crop cannot be produced at a profit a' less than \$2.50 per cental, with fair crop returns every year. They often sell as low as \$2, but some years of short rainfall have brought them up to \$4 per hundredweight.—Ex.

Appeals Pending in Customs Cases.

In a list of appeals pending in customs cases, issued January 3, 1905, by the Treasury Department, the following of more or less interest to the trade are included:

FLOWER BULBS.—J. M. Thorburn & Co. v. United States. This application relates to an unpublished decision of December 10, 1890, which affirmed the assessment of duty on certain flower bulbs, under the provision in paragraph 405, tariff act of 1883, for "bulbs and bulbous roots, not medicinal, and not specially enumerated or provided for," against the importers' contention that the merchandise was free of duty under the provision in paragraph 636 for "bulbs, and bulbous roots, which are not edible and are in a crude state, and not specially enumerated or provided for."

PRESERVED PALMS.—G. W. Sheldon & Co. v. United States. The decision under review was rendered January 3, 1902, and on the authority of G. A. 4560 (T. D. 21625) held that certain pieces of palm leaves and stems that had been

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Propagating *Caryopteris Mastacanthus*.

This is the time to get an old plant or two of *Caryopteris mastacanthus* under cover, pot them and start them to grow, looking to the increase of them from soft wood cuttings. Nothing strikes easier than the green wood of this plant, and a single plant propagated from, early in the season, would be the parent of a thousand by Fall, were the propagation kept up the season through. And treated as a pot plant it is a pretty object when in bloom, the heads of blue flowers showing off to better advantage than when the plant is in the open ground. Its common name, verberna shrub, seems an appropriate one, as it belongs to the same natural order that the verberna does.

Forcing Japanese Snowballs.

Japanese snowballs intended for forcing should be some that have been grown in tubs for a year in advance. Those dug last Fall, potted then, and now brought on for forcing, may give small flowers, but not as good ones as would have been obtained had the plants been better established. There is a great demand for the flowers of this snowball for uses on Memorial Day, but there is no need to force for that occasion, as in ordinary seasons bushes of this plant are in flower outdoors. In the neighborhood of New York the snowball is one of the first shrubs to show its awakening when Spring comes. Its buds push almost as soon as those of the larch. The date is about the 10th of April. Then, as a rule, the flowers are in perfection at the close of May—the time the great demand for them is on. This makes about six to seven weeks in all, and from what it does outside, valuable hints may be obtained for its indoor management, to bring it into flower at the proper time. There must be but little pruning of its shoots, as this means a loss of flowers. If roots are but few and apparently not sufficient to sustain all the shoots, it will be better to cut some of them away entirely, leaving the remainder of full length.

Budded Lilacs.

With the ever increasing demand for lilacs, nurserymen hardly see their way to get up stock quick enough without recourse to hudding on the privet. As a fact, the greater number see nothing but merit in having them on the privet stock, as it means stocky plants in a short time, early flowering ones and numbers of them. The use of the stock is objectionable where the opposite of what it produces is desired. A stocky plant is usually all right always; so are early flowering ones, but the dwarfness which follows the use of the privet stock, as well as the privet suckers which often show from them, are not so acceptable. To overcome the suckering of the privet—which is not really suckering but a pushing from the stock below the graft—the buds should be cut out carefully before the lilac is planted, in the way careful men treat roses budded on some other stock.

Were it known how easily the lilac can be raised from seeds, more would be done in that way, and an ample supply of stocks for budding obtained. The clusters of seeds, which follow the flowers can be rubbed apart and sown as they are, there being no need to separate the seeds from their pods. They should be sown early in Spring, when seedlings may be looked for the first season. This would give stock for the budding on of the many new and valuable sorts now in cultivation. It would lessen the mingling of stock and clone, and it would give lilacs of natural height instead of the rather dwarf ones which result from the use of the privet.

What are known in nurseries as Hungarian lilacs are the *Josi Koa villosa*. Emodi and Dr. Brightschneider. These seem much dwarfed when on the privet, but they then flower well, perhaps better than when on their own roots.

Before closing let me say that in *Syringa oblata*, a new lilac from China, there is the earliest lilac to flower of any known. And it is a true, old-fashioned lilac, as well.

Notes on Liquidambar.

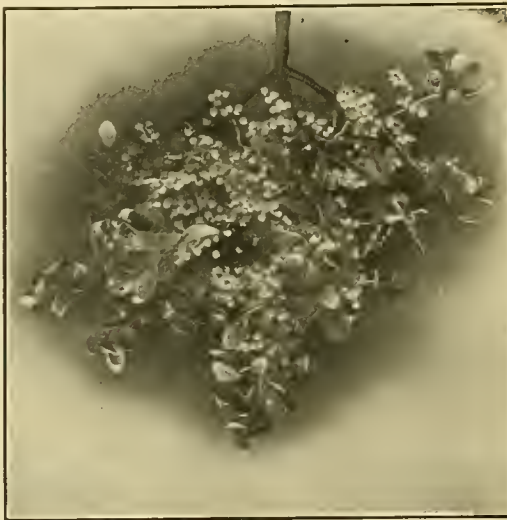
Mr. Duncan's notes on the sweet gum, particularly those in which he points out the desirability of getting the supply of trees from its furthest northern point of growth, I fully endorse. Many years ago I mentioned in the horticultural press some experiments with seedlings of this tree, raised from seeds obtained from Georgia. From the first the seedlings were tender, and were partly winter-killed. What interested me greatly, was the noting of the difference in the behavior of the bed of these and another bed

of plants raised from seeds gathered from native trees growing nearby. Those of the latter finished their growth and dropped their leaves before freezing weather came. The southern ones did not, but were still growing when the freezing came, and so were, of course, much injured.

To return to the behavior of the southern seedlings. They were hurt every Winter, but less every year, and, little by little, crept up to be trees, and in the end became quite hardy, not suffering at all. They seemed to acquire the habit of ripening early, giving them riper wood with which to meet the foe. The late ripening habit may be witnessed in all trees from the far South.

Mr. Duncan's experiment with the Connecticut trees will, no doubt, prove successful. There are groves of this tree here, some within the boundary of the city of Philadelphia, and some in Delaware County, just across the Philadelphia line. Our neighboring nurserymen raise all their trees from seeds secured from these groves. Taken when young and transplanted and pruned often, they transplant very well; and even when of a size six to eight feet and not often transplanted the work may be successfully done if pruned almost to bare poles.

No situation delights this tree as does deep damp ground, but if any doubt of hardiness exists, don't plant it there, as it will make a rank growth which will not ripen well before Winter comes. Better plant it on higher ground.



SPRAY OF TEXAS MISTLETOE
Distributor, Wm. Anderson, Brownwood, Tex.

Mahonia Aquifolia, *M. Repens* and *Ilex Crenata*.

Edwin Sexton, Elsemere, N. Y., writes as follows: "I read your contributions to *The Florists' Exchange* with much interest, and have just noticed in the last issue, what your correspondent of Edgeworth, Pa., says concerning *Mahonia aquifolia*. I saw the plant he describes, in the year 1889, growing on the dry foothills, on the east side of the Rocky Mountains, fifteen miles west of Denver, and at the time did not know its name. On referring to Professor John M. Coulter's "Manual of the Botany of the Rocky Mountain Region, from New Mexico to the British Boundary," I find this description of the plant: *Berberis repens*; a low shrub less than a foot high; leaflets, 3 to 7, ovate, acute; racemes few, terminating the stems.—Throughout the Rocky Mountains. This is the *B. aquifolia* of Flora Colorado and the various Western Reports. *B. aquifolia* ranges farther West, especially in Oregon and Washington, and is a much larger shrub, with clusters of racemes. On referring to Nicholson's Dictionary of Gardening for *Mahonia aquifolia* I find: Included under *Berberis*; and on referring to *Berberis*, I find *aquifolia* described as three to six feet; and *repens* one to two feet, both natives of North America.

"While writing you I wish to say a word about the hardness of *Ilex crenata*. I have but one plant of it, about a foot high, growing in light sandy soil in a very exposed situation. Last Winter it stood 30 degrees below zero; it was uncovered and unharmed and made a healthy growth the past Summer."

Mr. Sexton's notes show, that the understanding of our nurserymen that the *Mahonia repens* is a dwarf from the *M. aquifolia* is correct. As it is, the common *M. aquifolia* being such a slow grower meets all requirements without having the *M. repens*. The latter is very dwarf, as it grows here; but it is a pretty evergreen, and useful for many purposes for which landscape gardeners want a low growing evergreen.

It is interesting to know that the *Ilex crenata* will stand 30 degrees below zero. It must be a real ironclad holly. We get it down to zero a few times through the Winter, and were pleased to find this holly did not mind that, but had not thought it would stand 30 degrees below zero.

JOSEPH MEEHAN.

Mahonia Aquifolia.

Editor Florists' Exchange:

The articles lately appearing in the Nursery Department of the Florists' Exchange, in regard to *Mahonia aquifolia*, have encouraged me to add some matter to a very interesting subject.

Here, in the Bitter Root Valley, and, in fact, throughout the whole of the mountain region of Montana, *Mahonia aquifolia* grows in profusion. On sun-baked, gravelly flats, on open sunny hillsides, hanging to the edge of the precipice, seeking out the cool depths of the thickets of quaking ash and fir, is found this most wonderful of Rocky Mountain evergreens. I know of no plant in this region that has its range and adaptability to environment. From sea level to timber-line; from arid plain to the brink of the shady pool, it grows in profusion and thrives in every situation. That it will readily respond to good treatment is easily seen by the difference in the plants growing in the dry flats—only three or four inches high—and those growing in a partly shaded situation where moisture abounds, whose sprays of leaves frequently measure a foot in length.

The plants in this region have the same dwarf, creeping habit as the Black Hills variety described by Mr. McCready in *The Florists' Exchange* of December 31, 1904, but the time of blooming is very different. Here they are the first to bloom, coming in advance of the buttercup, and are often found in flower in February under the shelter of some projecting rock on an open, sunny hillside. This difference, however, may be explained by the difference of altitude, as the mean height of this valley is only about 3,500 feet.

Blind, indeed, would be the plant lover who failed to recognize at once the great decorative value of *Mahonia aquifolia*. The dark red of the sun-kissed leaves contrasted with the brilliant green of those grown in the shade, makes a Christmas decoration that is not surpassed even by the universal holly. Although the grape-like clusters of fruit, of a dark purple color, thickly covered with "bloom," add greatly to the attractiveness of the plant, they are not persistent enough to be of any value as a holiday decoration, as they are so fully matured by September as to shatter at the slightest touch.

For several years we have used the mahonia alone in decorating the house for the holidays; but this year we used the holly, too, our own judgment and that of our friends being that the mahonia made much the finer effect.

As to the commercial possibilities of the plant, hinted at by Mr. Meehan, it is evident that there is already a demand for it. I once sent some leaves to an Eastern horticultural paper with a request for an opinion as to their value for florists' use. The editor turned them over to a wholesale florist who asked for a consignment of 10,000 sprays. Having neither the time nor the inclination to collect them I let the matter drop. However, I believe the time will come when great numbers of them will be shipped from here for the holiday trade. I enclose you a spray of each color, from which you can get a fairly good idea of their beauty.

W. E. McMURRY.
Hamilton, Mont.

Texas Mistletoe.

Around Christmas time we were favored with a sample of the mistletoe which Wm. Anderson, of Brownwood, Texas, was advertising in our columns. Our illustration shows the character of the goods Mr. Anderson handled at that time. Mr. Anderson adds:—"I am highly pleased with the results obtained from the advertisement placed with you; I have received a great many repeating orders."

In our issue of December 24 last Joseph Meehan contributes some valuable information relative to the propagation of mistletoe, which will be found useful by those desirous of essaying that work.

PARK ROADS AND WALKS.—The latest bulletin issued by that progressive body, the American Association of Park Superintendents, is a "Special Roads and Walks Number," and is replete with most valuable information on the important subject of park road-making. John W. Duncan, of Boston, in telling of his experience with oiled roads, says: "The odor, especially night and morning, was very objectionable, and a great difference in the growth of the shrubbery, especially roses, immediately along the side of the driveway, was noticeable; whether from the oil or other causes, the Summer growth was not so strong and healthy as on other sections of the parkway."

Greenhouses Wrecked by Dynamite Explosion.

An explosion of 2000 pounds of dynamite occurred January 5 near Atglen, Pa. The shock was felt at several distant points, including Christiana, Pa.: the greenhouses of W. P. Brinton located there are a total wreck; and those of W. P. Phillips have been damaged to the extent of \$500.

Ben. Hammond, the "Slug Shot" man, of Fishkill Landing, N. Y., is distributing a serviceable memorandum book, containing calendar, etc. The Exchange acknowledges receipt of a sample.

Contents.

Table listing contents of the magazine, including sections like 'Adiantum Farleyense', 'American Carnation Society', and 'List of Advertisers'.



THE CARNATION NUMBER of THE FLORISTS' EXCHANGE will be issued NEXT SATURDAY, JANUARY 28, 1905

THIS NUMBER will contain a full, telegraphic report of the meeting of the American Carnation Society, and as it will be an interesting number throughout, it will prove a particularly valuable issue in which to advertise Carnations and other seasonable stock.

YOUR ADVERTISEMENT IS SOLICITED. THE FLORISTS' EXCHANGE will sell your stock—do it quicker and at less expense to you than any other medium. Try us for results—sure and swift. Advertising rates shown in first column of page 66.

Engage Space Now

THE FLORISTS' EXCHANGE 2-8 DUANE STREET P. O. Box 1697 NEW YORK

LIST OF ADVERTISERS

Table listing names of advertisers and their corresponding page numbers, such as 'Acheson L. W.', 'Akers H. R.', 'Allen J. K.', etc.

Table listing names of advertisers and their corresponding page numbers, such as 'McKellar C. W.', 'Mader P.', 'McMaous J.', etc.

INDEX TO STOCK ADVERTISED

Table listing various stock items and their prices, including 'a. col. 1; b. col. 2', 'PLANTS, SEEDS, BULBS, FLOWERS', 'Abutilon', 'Achyranthes', etc.

Table listing various stock items and their prices, including 'Florists' Letters', 'Newspaper', 'Palat & Painters', etc.

Look Here

CHRYSANTHEMUM STOCK PLANTS See my advertisement on page 680 of issue of December 3, for varieties and prices, or write me.

CARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$2.00 per 100, \$16.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Harry Fenn, Harlowarden, Prosperity, Fair Maid, \$2.50 per 100, \$20.00 per 1000; Edna, \$3.50 per 100, \$30.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000.

(Boston Ferns, from benches, good for 5 in. 6 in., or 7 in. pots, 25c., 35c. and 50c.)

JAMES E. BEACH, 2019 Park Bridgeport, Conn.

Mention the Florists' Exchange when writing.

Carnation Cuttings

Table listing various carnation cuttings and their prices, including 'Enchantress', 'Queen', 'Fair Maid', 'Harry Fenn', 'M. A. Patten', 'Queen Louise', 'Lawson', 'Walcott', 'Manley', 'Estelle', 'MISCELLANEOUS', etc.

J. D. THOMPSON CARNATION CO. JOLIET, ILL. Carnations Our Specialty

ROOTED CARNATION CUTTINGS

Table listing carnation varieties and their prices, including 'White', 'Pink', 'Crimson', 'Variegated', 'Grafted Roses on Strong English Manetti Stock', etc.

Table listing various carnation varieties and their prices, including 'Grafted Roses on Strong English Manetti Stock', 'Bridemaid, Golden Gate, Bride, Ivory, Madam Chateaub', etc.

ASPARAGUS PLUMOSUS NANUS SEED THE Wholesale Florist of Philadelphia

Mention the Florists' Exchange when writing.

GOOD CLEAN STOCK 75,000 Carnation cuttings, ready for February delivery. 25,000 ready now—some in pots and trays. Flora Hill, Mrs. McGowan, Joost, Queen Louise, Elbon, a fine red. \$1.25 per 100; \$10.00 per 1000. Cash with order, please.
J. H. A. HUTCHISON, Prop.
LOCUST STREET GREENHOUSES, Oxford, Pa.
 Mention the Florists' Exchange when writing.

Variegated LAWSON

Sport of Mrs. Thos. W. Lawson. The flower is of the Mrs. M. A. Patten type and can barely be distinguished from it.

Rooted Cuttings
 \$12.00 per 100; \$100.00 per 1000

JOHN REIMELS
 CEDAR LANE, WOODHAVEN, L. I., N. Y.
 Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

	White	per 100	1,000
Queen		2.50	20.00
Queen Louise			
Boston Market		2.00	15.00
	Pink		
Nelson Fisher		6.00	
Ethel Ward		4.00	
Enchantress		3.00	
Lawson		2.00	15.00
Fair Maid			
	Crimson		
Harlowarden		2.50	20.00
	Variegated		
Judge Hinsdale		4.00	
Prosperity		2.00	15.00
	ENGLISH SELECTED MANETTI STOCK		
6 to 8 mm.		\$12.00	per 1,000

S. J. REUTER, Westerly, R. I.
 Mention the Florists' Exchange when writing.

RED LAWSON

Sport from Mrs. Thos. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's away ahead of all the reds.
 Price, per 100 \$75.00; per 1000 \$100.00. 250 at 1000 rate.

ROOTED CUTTINGS

	Per 100	Per 1000
FAIR MAID	\$2.00	\$12.50
QUEEN	2.00	15.00
BOSTON MARKET	2.00	12.50
LAWSON	1.50	12.50
QUEEN LOUISE	1.25	10.00
WHITE LAWSON	5.00	
MRS. ROOSEVELT	1.25	10.00

Satisfaction guaranteed or money refunded.
Quidnick Greenhouses, Anthony P. O., R. I.
J. H. CUSHING, Prop.
 Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Now Ready

Eclipse Our 1905 introduction. A pink carnation, lighter in color than Lawson and of a more even and bright shade of pink. No objectionable shading or bleachings. A strong free growth, large flowers on long stiff stems and early and continuous flowering.

Fiancee A most pleasing shade of medium pink. No carnation has ever equaled the number of awards received by this variety.

Cardinal Brilliant scarlet. A great improvement over Estelle.

F. Burki Pure white.

The above four varieties,
 \$12.00 per 100; \$100.00 per 1000.

Richmond Gem Scarlet, \$10.00 per 100; \$75.00 per 1000.

In addition to the above we can supply twenty-five of the best standard sorts, varieties that are profitable to grow. Our preliminary Price List will be sent upon application. We are pioneers in the carnation line and our facilities for rooting and handling cuttings are nearly perfect, due to our long experience.

F. DORNER & SONS CO., LA FAYETTE, INDIANA

Mention the Florists' Exchange when writing.

CALIFORNIA CARNATION CO. Loomis, Cal.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS Clean and Healthy

	Per 100
Mrs. M. A. Patten	\$6.00
Nelson Fisher	7.00
Enchantress	3.00
Walcott, Boston Market, J. H. Manley, Maceo	2.00

SIDNEY LITTLEFIELD, North Abington, Mass.
 Mention the Florists' Exchange when writing.

CARNATIONS CARNATIONS

Unrooted Cuttings, fine stock and reliable varieties. The Queen, \$10.00 per 1000. 250 at 1000 rate. Cash.

Rooted Cuttings Now Ready
 Send for price list of all the new and standard sorts.

STEPHEN CHASE, Nashua, N. H.
 Mention the Florists' Exchange when writing.

WILLIAM SWAYNE, Box 226, Kennett Square, Pa.
 Mention the Florists' Exchange when writing.

ROOTED CUTTINGS READY

WHITE LAWSON

\$7.00 per 100; \$60.00 per 1000

ENCHANTRESS, \$4.00 per 100; \$30.00 per 1000

PINK LAWSON, 3.00 " 20.00 "

Send for Catalogue for other varieties

CHICAGO CARNATION CO., Joliet, Ill.

Mention the Florists' Exchange when writing.

\$12.00 per 100
 \$100.00 per 1000
 250 at 1000 rate

VICTORY

TO BE
 DISSEMINATED
 1906

Place Your Orders for Rooted Cuttings of

WHITE LAWSON	\$6.00 per 100	HARRY FENN	\$2.50 per 100
NELSON FISHER	6.00 "	GOETHE, light pink	2.50 "
MRS. PATTEN	6.00 "	GENEVIEVE LORD	2.50 "
ENCHANTRESS	3.00 "	MANLEY	3.00 "
PROSPERITY	3.00 "	MACEO	1.50 "
THE BELLE	6.00 "	CERVERA	2.00 "
LADY BOUNTIFUL	6.00 "	LAWSON	2.00 "

5 per cent. discount for cash with order. Send your orders early.

GUTTMAN & WEBER

52 W. 29th St., New York City. Lynbrook, L. I.

Address all correspondence to 52 W. 29th St., New York City
 Mention the Florists' Exchange when writing.

The John E. Haines Carnation

POSITIVELY THE BEST SCARLET OUT

SIZE 3 1/2-INCH AND OVER. TO BE DISSEMINATED IN 1906

Invitations for inspection of greenhouses are extended to all florists. Will gladly furnish sample flowers for exhibitions and club meetings on request.

JOHN E. HAINES, Bethlehem, Pa.

Mention the Florists' Exchange when writing.

New Light Pink Carnation PHYLLIS

A true Daybreak color, a free bloomer and a good keeper

Price, \$12.00 per hundred; \$100.00 per thousand.

CHRYSANTHEMUMS

All the newest and best varieties at advertised rates.

JOHN N. MAY, SUMMIT, N. J.

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A Weekly Medium for Interchange for Florists, Nurserymen, Seedsmen and the Trade in general

Exclusively a Trade Paper.

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YEARLY SUBSCRIPTIONS.

United States, Canada and Mexico, \$1.00. Foreign countries in postal union, \$2.50. Payable in advance. Remit by Express Money Order, draft on New York, Post Office Money Order or Registered Letter.

The date on the address label indicates when subscription expires.

REGISTERED CABLE ADDRESS:

Flores, New York.

ADVERTISING RATES.

One-half inch, 75c.; ¾ inch, \$1.00; 1 inch, \$1.25. Special positions extra. Send for Rate Card, showing discount of 10c., 15c., 25c. or 35c. per inch on continuous advertising. For rates on Wants, etc., see column for Classified Advertisements.

Copy must reach this office Thursday morning to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

New Gardening Periodical.

THE GARDEN MAGAZINE, edited by Wilhelm Miller. Publishers, Doubleday, Page & Co., 133-137 East Sixteenth street, New York.

It is fitting that, with the demise of one American periodical devoted to gardening matters, another should spring up to take the place of the defunct journal. The Garden Magazine is said to be "a monthly magazine on practical gardening," and, we are told, is "the logical working out of the growing interest in the garden not merely as a means of livelihood (though we expect to see more and more people turning to it as a life work), but as a delight and pursuit for the busy people in the world who find a new fascination in the things of the soil." From the articles appearing in the first number of the new magazine, it would seem as if the majority of the "practical gardeners" in America who dole out instruction were females; which is, indeed, a pleasing sign of the times. We cannot discover the signature of a single "practical" male gardener known to us in the whole of the number. But that may or may not be a serious drawback. The new journal is certainly comprehensive in the number and character of its contributions. It is profusely and aptly illustrated and will, no doubt, do its share in maintaining that interest in gardening matters which is so manifest throughout the country just now.

McKinley Day, January 29, 1905.

Subscribe to the Florists' McKinley Memorial Fund. Hang your certificate of subscription in a conspicuous place. Spread the fact that President McKinley had no particular choice of color. He wore from white to the deepest scarlet. This is authentic.

Cater to the children. High prices will force the use of a tissue paper substitute, in many cases.

Do not overcharge. Ask a moderate price, thereby showing your participation in the day.

If you feel unable to subscribe now, set apart a fraction of a cent on each carnation sold on McKinley Day, or a percentage of your day's receipts, and send to the committee on The Florists' McKinley Memorial Fund, H. M. Altick, Chairman, Dayton, Ohio.

F. R. Pierson, of Tarrytown, N. Y., is receiving considerable publicity in the daily newspapers these days on account of his purchase of the variegated Lawson carnation from W. B. Arnold, of Rockland, Mass. It is announced that \$20,000 was paid for the stock. Mr. Pierson is being styled a millionaire resident of Tarrytown, and his deal is characterized as "Frenzled Floriculture," all of which has its good effects in a certain direction.

Fifteen new violet houses will be added to Rhinebeck's (N. Y.) city of glass the coming season.

Postal Reforms Needed.

The Postal Reform League, which recently opened headquarters at 500 Fifth avenue, New York, is making a commendable endeavor to bring to the attention of the American people, the disadvantage under which both merchants and purchasers labor on account of the untoward existing postal conditions in this country. In a communication to the New York Sun, Immanuel Pfeiffer, general manager of the League, draws a comparison between the German postal facilities and those of the United States, very much to the disadvantage, as well as the discredit, of the home arrangements. He says, among other pertinent things:

"Our Government charges 6,000 per cent. more for delivering parcels than the German Government. Five or 10 per cent. is an immense difference in business expenses. Then think at what a disadvantage our merchants are placed in comparison with those of Germany."

"Merchandise sent through the mail in America must be limited to four-pound packages, reckoned as fourth-class matter. For this four-pound package the sender must pay 64 cents for any distance, even in the same city."

"A German can send a 110-pound package of merchandise from one end of Germany to the other for 30 cents, or he can even send it to the confines of Austro-Hungary for the same sum."

"The American pays 16 cents a pound. The German pays one-fourth of a cent a pound. Is there any reason in that?"

"The German Government will deliver the 110-pound parcel at the address to which it is consigned. For from 2 to 6 cents extra the Government will insure this package, while we must pay 8 cents to register a half-ounce letter."

"There is apparent throughout Europe a great desire to serve the people through their postal system which is entirely lacking in our Government. Even little Denmark recently appointed a commission to examine into the postal systems of all countries and report on improvements. As one result Denmark has recently established a national automobile system to deliver the parcels post at the door of the consumer."

"The International Parcels Post was established in 1880. It carries 11-pound parcels to any one of the thirty-three countries represented for 10 cents, land transportation, with additional fees running up to 60 cents for maritime transportation."

"Why are we kept out of this union? Why do not our business men have the advantage of that rate in dealing with the 500,000,000 inhabitants of those countries? Ask the President. He has the power, together with the Postmaster-General, of fixing postal rates."

We would recommend that every florists' club, special and national society, devoted to our industry, get in touch with the Postal Reform League, and render it substantial, practical aid, in its efforts to eradicate antiquated post office methods and practices, which but clog the wheels of commerce, detrimental alike to the buyer and seller of those commodities which come within the scope of parcel post operations.

The American Carnation Society.

The meeting and exhibition of this society will be held in the Auditorium Hotel, Chicago, Ill., January 25 and 26.

Every one interested in carnations is invited to come and meet with us. Special rates of a fare and one-third, on the certificate plan, (which will be explained to you by any ticket agent) have been granted from all points east of, and including Denver.

The small sum of \$2 makes you a member of the society, and pays one year's dues. This entitles you to exhibit any new, or old, carnation you may have to show.

The Auditorium Hotel can take care of fully 200 members at reasonable rates, and especially so when two will occupy the same room. This puts all under one roof—lodging, the meeting and exhibition, and weather need not be taken into account.

Special Notes.

There are so many sports of Mrs. Thomas W. Lawson coming into the field that this society would like, for the sake of uniformity, and to avoid the introduction of the same variety under different names, to have every carnation grower who has a sport from Lawson, of any color, to exhibit the same at this meeting; and especially so if he intends placing it on the market.

Where the grower does not accompany the box containing his flowers, it should be marked as follows: "The American Carnation Society, Chicago, Ill., care of P. J. Hauswirth, Auditorium Hotel." (Prepaid).

Registration.

By Patten & Co., Tewkesbury, Mass.

MIKADO.—Color white overlaid with crimson, a seedling of 1902; cross of Governor Roosevelt and Prosperity; style of growth like that of Governor Roosevelt; size of blooms three to three and one-half inches.

PINK PATTEN.—Color clear dark pink, a sport from Mrs. M. A. Patten.

ALBERT M. HERR, Secretary.

Lancaster, Pa.

Sir Joseph Hooker has retired from the editorship of the Botanical Magazine, England. For a continuous period of seventy-seven years botanists and gardeners have been indebted to him and his father, Sir Wm. Hooker, for the illustration and exact description in that periodical of rare and interesting plants.

American Carnation Society Notes.

As the time approaches for the annual exhibition of the above society, those most interested are wondering what kind of weather we are to have. Until last year we have generally been unfortunate in a blizzard coming up just about the time the distant exhibitors had started their exhibits on the journey. After so many sad experiences of this nature, it was the consensus of opinion that if the date of meeting was changed to March instead of February, we would be more likely to miss the blizzards and strike a time when trains would be running on time, hence the change of date of last year's meeting, it being put off to March, which worked all right, except that it was too late for practical purposes. It was pointed out that florists who buy new carnations had already made up their minds what varieties were the best and had placed their orders a month or two in advance of the show, only to be disappointed, in some cases, when they saw these varieties on exhibition but declared they could not wait until the middle of March before placing their orders, for it would be April, or May, before they could get their goods. Therefore, all looked back to the old date, and, upon reflection, noted that we had experienced the same bad weather conditions that year and thought best to try January 25 and 26 as an experiment.

So here we are; regardless of weather there will be an exhibition. There are enough carnation growers from Ohio, Indiana, Michigan, and Illinois to make one of the grandest exhibitions we have ever had; but what we want is a show from the whole of the United States and we'll have it, weather permitting. It however, behooves every exhibitor to ship on time—rather twelve hours ahead than twenty minutes late on arrival. One of the most successful exhibits the writer made, was at the Philadelphia meeting. I arrived there with my blooms at 8 p. m. the day before the show, in a terrible snow storm and at that, several hours late.

I listened to the advice of several old hands, and did not unpack my flowers, as I had intended doing but left them in the boxes all night. That made fifty-two hours for them out of water until the time of judging. Some growers not more than one hundred or two hundred miles from Philadelphia never get their flowers judged at all, owing to their being several hours late.

It is the rule now to bar every exhibitor from competition who does not have his flowers staged promptly on time. That rule is enforced to the letter and the time is, this year, 1 p. m., January 25. This rule does not apply to varieties entered for the certificate of merit; nor does it interfere with bloom staged and labeled "not for competition." Everyone having the interest of the exhibition at heart hope to see all exhibitors on time and no one disappointed.

If you have not received the premium list, send to Secretary Albert M. Herr, Lancaster, Pa. He will forward you a copy by return mail. You will find many classes that will interest you. There is a chance for everyone to win a prize of some sort; a variety can compete in the hundreds. Varieties introduced prior to July 1, 1903, can compete in fifties and varieties introduced prior to same date in 1902, can compete in the twenty-fives. Then there are the usual number of special prizes.

These few remarks are intended for the new exhibitors, and as a reminder only for those who are already aware of the facts stated. You do not necessarily have to be a member of the society in order to exhibit; but I believe the entry fee charged for exhibits amounts to more than the membership which is \$2.

I regret to report that owing to the illness of George Wienhoeber, who has been in the hospital for many weeks, we shall not have the pleasure of his paper on "Carnations From a Retailer's Point of View," with practical demonstrations of arrangements. Those who heard this progressive young gentleman's paper at Asheville, will realize what we shall miss.

JAS. HARTSHORNE,
President.

Substantial Aid to McKinley Memorial Fund.

At the meeting of the Chicago Florists' Club, held Thursday evening, January 12, those present signed an agreement to contribute to the McKinley Memorial Fund, from the proceeds of their McKinley Day carnation sales, as follows: Retailers, twenty-five per cent.; growers, fifteen per cent.; wholesalers, five per cent. This is an example worthy of emulation throughout the entire country; and the contribution made would but form a fitting token of appreciation not only of the martyred President's love of the divine flower, but also of the great impetus to the carnation industry which the beautiful commemoration of his birthday has been instrumental in bringing about.

All interested in swelling the fund, and that should mean every man and woman in America who handle carnations, should address H. M. Altick, Dayton, Ohio, on the subject; who, upon their pledge to devote their per cent. to the fund, will mail a handsome placard for display, not only advertising McKinley Day, but also showing the action of the florist in taking a substantial part in this popular and worthy movement.

The fund is to be known as the "Florists' McKinley Memorial Fund," and is to be applied to the improvement and care of the national McKinley monument and its surroundings at Canton, Ohio.

OUR READERS' VIEWS

(Contributions to this Column are Always Welcome.)

Chrysanthemum Dorothy Faust.

Editor Florists' Exchange:

I saw in a recent issue of The Florists' Exchange that the New York committee of the C. S. A., through Eugene Dailedouze, chairman, in passing upon the merits of a chrysanthemum sent to them as Dorothy Faust, decreed that it was a known variety, Mrs. Robert McArthur. In justice to myself, I feel that I should make some statement, and ask a few questions. If it is McArthur, how did I get it? I never had, and I do not think any one else around Philadelphia, had a Mrs. Robert McArthur, else it could have been recognized.

Four years ago I had a batch of Major Bonnaffon chrysanthemums, in three-inch pots, and wishing to increase my supply I took the tops out of each one, and when I planted, I planted all of the original three-inch lot, and all the plants produced from the top cuttings. When they bloomed, among the later I noticed this white one, an unusually clean, fine flower, and I had bought no chrysanthemums at all that year from any one, and the year before only a bit of Wm. H. Chadwick from Robert Craig. Among the original batch of three-inch Major Bonnaffon I speak of there was no trace of a white.

I carefully lifted this stranger among my Bonnaffon, and the following year had about twenty-five plants, showing it to everyone that came in; and the next year had quite a bench full. Mr. Craig saw it; so did Mr. Harris. Neither of them knew it; and at Mr. Craig's suggestion I sent it to E. G. Hill, of Richmond, Ind. He said it was an unusually fine white, but could not help me in naming it. I also sent a flower to Elmer D. Smith, and he could not place it. So I wonder, and still the wonder grows, how this could be Mrs. Robert McArthur? How did it get among my plants? Could it be possible for two flowers to be so much alike as to be mistaken one for the other?

If it really is McArthur I am glad to find the name for it; the only difference it will make to me is I shall not sell any of the stock, and those who wish to grow it can buy Mrs. Robert McArthur, and shall grow my own stock.

HARRY J. FAUST.

Merion, Penna.

Mr. Falconer and the "Canucks."

Editor Florists' Exchange:

Just a line or two in reply to Mr. Falconer's remarks (page 11). He evidently has not given much thought or attention to the present situation, and forgets that things move in Canada as well as in other places. Canadians are not "uppish" towards their brother florists in the United States or anywhere else, in the sense that Mr. Falconer uses the word. They are "uppish" in the sense a boy is who is growing up to be a man. They have a national society of their own now, and have had for the last seven years—the Canadian Horticultural Association. They have a trade paper of their own, too; but they are not too "uppish" to read and correspond with United States trade papers. They acknowledge that the meeting of the S. C. F. in Toronto, 1891, fulfilled its mission in opening their eyes to the possibilities of the trade—and they do so with gratitude; but if Mr. Falconer will give the subject a little thought he will see that it was necessary as time went on for them to do a little mission work on their own account, in their own country, which was growing up to be a nation. They had their own Governments to move, their own wires to pull. That is all there is to it. But there need be, there should be no national feeling enter into the realm of horticulture. We are all (the world over) striving for its advancement in our own way, and in doing so, for our own individual advancement. Flora knows no imaginary lines or boundaries, nor should her followers.

A. H. EWING.

Do It Now.

The Florists' McKinley Memorial Fund committee would respectfully call the attention of the trade to the near presence of January 29, 1905, popularly known as "Carnation Day," or "McKinley Day," set apart for the observance of a memorial to our late President.

The committee has, at different times and divers places, detailed the objects of The Carnation League of America, and the benefits already derived and to be derived from the popular movement by our profession and it now feels that the time has come for prompt attention.

The committee has expended considerable effort to place this question before the trade; a fair number have subscribed to the fund; a greater number have pledged themselves; but the greatest number have failed to respond.

To those who have paid, the committee heartily gives thanks; to those who have subscribed, but not paid, the committee would urge prompt payment so that they

may receive their certificate before January 29; and to the great number who have failed to respond, either through carelessness, neglect or indifference, the committee would urge prompt action.

The grower and the wholesaler are equally interested and benefited with the retailer, they must depend each upon the other; the more successful the retailer, the greater the demand upon the grower and the wholesaler, therefore it behooves all, from the grower to the proprietor, to have a part in a general movement that will bring manifold good to our profession.

A generous response will easily attain our object, and obtain for our profession a fund for the National McKinley Memorial that will prove a lasting monument to the florist's profession, and that will bring back to us many times the amount invested.

Any donation (the committee terms it, "investment") of \$1 or more entitles the member to a handsome steel engraved certificate, fit to be framed, and when displayed in your place of business, it will prove a lasting appeal to the sentiment and patriotism of your customers, and an indication of your own loyalty to, and your interest in, our Great Republic.

"Do it now" and send your remittance to the undersigned.

H. M. ALTICK, Chairman.

Dayton, Ohio.

The Originator of the Carnation League.

The accompanying portrait is a likeness of Mr. Lewis G. Reynolds, of Dayton, Ohio, who, prompted by the patriotism and sentiment, so common in the citizens of this great republic, instituted that "great memorial of sentiment," McKinley Day.



LEWIS G. REYNOLDS

Originator of Carnation League of America

The Carnation League of America, with its three millions of devoted followers, will observe this coming January 29 in a befitting manner, and in addition to each member wearing a carnation on that day, all over this broad land, will be held, memorial services, in honor of our illustrious dead.

Mr. Reynolds, by his happy suggestion, has not only conferred upon the florists of this country an incalculable financial benefit, but has founded an educational institution that will instill into the hearts of millions of our youth, the love and appreciation for the products of the florists' profession.

It is greatly to the interest of our calling, not only to give this popular movement our moral support, but whenever and wherever the opportunity offers to most substantially demonstrate that we are endowed with some of the same spirit of sentiment and appreciation that caused the foundation of The Carnation League of America, and that has made a grand success of it.

We refer to the laudable effort to raise a Florists' Fund for the McKinley Monument.

A Correction.

The caption under Begonia Gloire de Lorraine, pictured on page 41 of last week's issue, should have read that the plant was in a 16-inch pan, and not in a 6-inch pot, as printed.

OBITUARY

John F. Derby.

John F. Derby, a retail florist of 334 Bedford avenue, Brooklyn, N. Y., died of pneumonia at his home there, on Jan. 9, 1905. He was born on Broadway, near Bedford avenue, June 1, 1870, and was the son of the late John J. Derby, who for many years was a well-known florist of Williamsburg. The business was established in 1869, and was carried on by the deceased at the address mentioned. Deceased was unmarried.

W. F. Will.

W. F. Will, sixty-three years of age, foreman of the floral department of the Nunnally company, of Atlanta, Ga., was discovered dead on Friday afternoon, January 6. Death was due to heart failure. Mr. Will served during the civil war as a lieutenant in a New York regiment.

W. W. Hammond.

W. W. Hammond, an old resident of Bement, Ill., and well known as a nurseryman, died suddenly from a stroke of apoplexy, Sunday morning, January 15, in that village.

Mr. Hammond was born in Pennfield, N. Y., March 29, 1832. He went to Bement in 1869. He had always been a nurseryman, establishing a nursery at Bement in 1870. He was supervisor of Bement township for six years, and had filled the office of justice of the peace for several terms. He was a member of the Presbyterian Church of Bement and a regular attendant at its services. He leaves a widow and seven children.

GEORGIA STATE HORTICULTURAL.—We acknowledge receipt, with thanks, of a copy of the proceedings of the twenty-eighth annual meeting of this society, held at Tallulah Falls, Ga., August 4th and 5th, 1904. It is an interesting document, not the least valuable part of which is the catalogue of fruits furnished, of those which are successfully cultivated in Georgia.

The officers of the society are: President, P. J. Berekmans, Augusta; secretary, Chas. T. Smith, Concord; treasurer, Louis A. Berekmans, Augusta.

THE GARDENER'S ASSISTANT.—It is

with great pleasure I note you advertise this book. It was first gotten up by the late Robert Thompson, superintendent of the Royal Horticultural Society's Gardens at Chiswick, London. Mr. Thompson was then one of the best and most experienced all-around gardeners in Europe, if not the very best, and his field of observation, practice and experiment was greater than that of any other man then living. It was the first book on gardening I ever owned. About 38 years ago I subscribed for it in monthly parts, 2s. 6d. a part. My wages was only 6s. a week. It was complete in 12 parts and then I had it bound, and that old and well-thumbed and blackened volume has a place of honor in my library to-day. It was my text-book for many a year. But the same Gardener's Assistant to-day is a new book, increased immensely in size, modernized in every particular, and that, too, by the Curator of the Royal Botanical Gardens at Kew, London, a man who has the best opportunities of any man on earth for knowing what is newest among plants and most modern in gardening.

The foregoing commendation, which appeared in THE FLORISTS' EXCHANGE, issue of January 7, 1905, was written by Mr. William Falconer, one of the very foremost practical horticultural experts in America. Mr. Falconer is a graduate of Kew Gardens; was Curator of Harvard Botanical Garden; Head Gardener for C. A. Dana, Esq.; then became Superintendent of Schenley Park, Pittsburg, and is now Superintendent of Allegheny Cemetery; he was also the first editor of "Gardening."

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A. T. DE LA MARE PTG. & PUB. CO. Ltd., P. O. Box 1697, New York
Publishers and Proprietors THE FLORISTS' EXCHANGE

THE BUSINESS OUTLOOK, 1905.

We publish herewith the views of some of the prominent firms in the trade, relative to the business outlook for 1905, showing, as far as present indications point, the various staples that are in demand, as well as in short supply. We hope to submit others, in subsequent issues, and solicit, for publication, similar information from our readers:

The Seed Trade.

We think the prospects for the year's business of the seed trade are fully as good as they were a year ago, and on the whole planters will probably arrange for a larger acreage.

While we were able to harvest a fine crop of sweet corn, yet it is not impossible for a shortage to develop in corn if this unsettled state of the weather has had a bad effect on the curing of same.

Bush beans, as you are probably aware, are in very short supply, and before planting season comes we fear many planters will be disappointed in not being able to procure all they will require.

There are a few varieties of peas that are short, but we do not think that this will interfere very much. Other seeds are in a fairly plentiful supply and are of good quality. W. ATLEE BURPEE & CO. Philadelphia.

We beg to advise you as far as we have reports about the various bulb crops. Liliun Harrisii: We are informed, that, although the crop of 1904 was not as large as that of past years, the prices will be about 20 per cent. lower than in 1904.

Japan longiflorum, as well as other Japan bulbs, such as auratum, album, rubrum, will be about the same price as in 1904. So far no shortage of crop is



SILVER RIBBON GRASS

Introducers, James Vick's Sons, Rochester, N. Y.

to be feared. Deliveries are expected to be more regular, unless the war conditions would influence transports as they have the past season.

Dutch Bulbs.—Reports from Holland indicate a lower price for hyacinths, and a slight decline in those of tulips. Prices for all sorts of narcissus will maintain about the same figures as heretofore.

French Bulbs.—Roman hyacinths are reported to be quoted fully 15 to 20 per cent. lower than in 1904.

Paper White grandiflora, however, will be higher priced than ever. Bulbs over thirteen centimetres will not be only very high, but there will be a considerable shortage. There will be a large crop of the twelve centimetre size, which will probably be lower in price.

Calla Ethiopica, California grown; while smaller sizes will be plentiful, larger sizes will be scarcer than ever. Prices will be somewhat higher on the sizes over 5-inch circumference.

Freestias, both from Bermuda and California, will be about the same price as in past seasons. The French stock will be somewhat higher priced. Freestias have been very scarce in France.

Kentia seed will rise in price after January first. The Australian government has strictly forbidden, under penalty, to export any seed for auction to Europe.

The outlook for business in 1905 has never before been better, the inquiries for Spring catalogues and advance prices having been more numerous than in any other year. H. H. BERGER & CO. New York.

The business outlook in the seed trade is good. The stock in greatest demand are naturally those of which the crops are short. Beans, particularly the wax sorts, are very scarce and are quoted higher than normal prices. The same applies to a few unimportant lines. J. M. THORBURN & CO. New York.

We hardly have time to give you an extended report of the seed crops and conditions. We can, however, mention the following:

Gradus peas are again in very limited supply on account of the very great shortage. This also applies to Dwarf Telephone or Daisy peas, which are almost a total failure. We are advised, however, that the European growers are filling these varieties in full to their customers. Fortunately, we placed a contract abroad for these varieties as well. Most all other varieties of peas are coming in full supply.

Spinach and radish crops are reported considerably short, especially in Holland, due to the excessive wet weather which they had abroad.

Grass Seed, such as Fancy Blue, Red Top and Meadow Fescue, as well as White Dutch clover, are very much lower in price than they have been for a long number of years. The quality seems to be unusually good, which is usually the case where a good crop is obtained. We are advised, however, by the grass growers in the West, that the prices are likely to advance on account of the drought which is existing in Kentucky, Indiana and other surrounding States, which makes it necessary to do a large amount of re-seeding, which will hold back considerable seed for that purpose. The Fancy Red Top market is also inclined to advance, owing to the extremely low price at which this seed was sold after harvest. The meadows are being plowed up, which will make it more scarce this year. Red clover is advancing considerably, and it looks as if the price would reach \$9 per bushel before long.

Asparagus plumosus seed seems to be an exceptionally good crop, probably better than for years past. This is what our growers report to us. The sales of Asparagus plumosus, however, seem to be constantly on the increase on account of the many uses that these plants are now put to. For instance, planted in small two and a half or three-inch pots, there seems to be a decided growing demand. Great quantities are also used for fern dishes.

Flower seeds seem to be in general a good crop, with the exception of some asters. Several types suffered considerably last Summer, and there is not enough seed of these types to go around.

Sorry that we have not time enough to give you more information, as orders are coming in very rapidly, which must naturally have immediate and prompt attention.

Philadelphia. HENRY F. MICHELL CO.

We anticipate a good year. In vegetable seeds the short items on beans, cucumbers and melons will be in good demand; and while it is a little early to state definitely, the indications are that the cabbage and celery plantings will be about normal.

The sweet corn crop in Monroe county is better than was anticipated, and while the majority of farmers are a little slow to believe that there is no chance of \$10 Evergreen, some are accepting the situation and offerings are being made at \$2 for nice stock. JAMES VICK'S SONS.

Rochester, N. Y.

The Nursery Trade.

Among the wholesale nurserymen the prevailing reports are that fruit trees are not as plentiful as they have been for several years. Large numbers of nurserymen throughout the country suffered by last Winter's severe freezing, and many varieties of plum, pear and cherry were killed, in certain sections. In the ornamental classes, trees seem to have been pretty well cleaned out of the market. There is a fair supply of shrubs; but it is not thought that there will be more than the trade will clean up. Home-grown roses are generally scarce, and although Holland roses have been coming into the country in considerable quantity, we believe that the supply will not be found any more than equal to the demand. It is generally conceded that the plantings for the coming year will be about the same in proportion to those for the past five or six years. W. & T. SMITH CO.

Geneva, N. Y.

The demand for nursery stock is increasing, and the outlook for sales in that department is especially bright. There is also a strong demand for peonies, and so many of the sorts will be short in supply that it is useless to enumerate them. There seems to be an increasing demand for larger and better grown specimens in ornamental nursery stock. Not being posted as to the stocks in question, I could form no idea of what might be short in the market. C. W. WARD.

Queens, N. Y.

The Plant Trade.

The outlook for business during the year 1905, so far as the Cottage Gardens is concerned, is as bright as we have had it heretofore. While I have not posted myself particularly as to what class of goods will be in the greatest demand, we find that all of our first-class carnations are meeting with an increased sale. The orders for Robert Craig, Lieutenant Peary, Ethel Ward, Enchantress, the President, Octoroon, Mrs. M. A. Patten, are coming in in fine shape, and the prospects are that all of the stock of the best varieties which we have to offer, with the exception of Robert Craig, will be covered by orders early in the season. C. W. WARD.

Queens, N. Y.

We grow nothing but carnations, and all our cut is consumed in Washington city. The demand for a good grade of bloom has been excellent ever since Thanksgiving, with prices averaging 25 per cent. higher than last season. Money is easy and an air of confidence as to continued prosperity at the capital prevails among business men generally. We are having large sales of rooted cuttings of our "Red Sport" carnation; and, as a whole, business was never better with us than at the present time. Purcellville, Va. A. B. DAVIS & SON.

Silver Ribbon Grass.

This is a new, hardy perennial, which grows from twelve to fifteen inches high, the striping very fine and delicate—green and creamy white running lengthwise of the leaf. Its greatest advantage lies in the fact that it holds its beautiful colors and markings during the entire Summer and does not run to seed. Owing to this fact it is especially desirable for borders, edgings, etc., or for massing. It is also valuable for florists' use in filling window boxes or lawn vases. For this work clumps of roots can be lifted in the Fall and stored under benches or in a cellar until wanted for dividing and potting or growing in flats ready for early Spring use. It also succeeds admirably as a pot plant for indoor decoration. JAMES VICK'S SONS.

Rochester, N. Y.

AMONG THE CHICAGO GROWERS.

Vaughan's Greenhouses.

This interesting establishment is situated sixteen miles from Chicago, on the Burlington and Quincy Railroad, at Western Springs. A visitor here can find all the latest improvements in greenhouse construction, as well as in heating apparatuses. Gutters of all styles are tried, and having been used in the houses recently erected their merits can readily be determined when seen in actual use.

On entering the place one is struck by the spacious office space, as well as its neatness in every detail. Manager James S. Wilson has a hearty welcome for all. Passing through the office one enters the packing shed, fitted with all modern improvements for the expeditious handling of large numbers of plants in as short a time as possible. Located on either side of this shed are the greenhouses, which at the time of our visit were filled to overflowing with flowering, berried and decorative plants for Christmas sales; the stock, especially the former, being a revelation. The house of Begonia Gloire de Lorraine was one mass of blooms, each plant being as good as its neighbor. All were sold, and more could have been disposed of if available. Large numbers are being propagated in anticipation of a great demand next season. The house of Christmas pepper was in fine form, plants in ten-inch pans were well-berried, all being of equal size. The demand for these was heavier than in former years. Poinsettias were also in grand shape; these were all grown in pans, from three to five in a pan, and from one to two feet high, each individual plant having good sized bracts. They found ready buyers at good prices. Azaleas are also grown in quantity for the holiday season; these were of extra quality this year, and, as always, are good sellers. The new Baby Rambler rose is being grown in large quantities, and from appearances as seen here, it will be a good Christmas plant. Being comparatively new, but a small number was used this season for the firm's Christmas trade. Those seen were in first-class condition. In another year this rose should prove a better seller at Christmas than ever Crimson Rambler has done for Easter, its dwarf habit and numerous trusses of crimson flowers being just what are wanted at that time. It is claimed that it is as hardy as Crimson Rambler, flourishing under similar conditions. It will appeal to the majority of buyers from the fact that it can be kept in the house until Spring and then planted in the open ground, where it will grow and continue to bloom until late Fall. Its greatest use will be found in its being suitable for made-up basket work of all kinds.

Orchids in late years have become quite a feature here, and large numbers were seen growing in good condition in several of the leading varieties. Palms are cultivated extensively, and all show a good, thrifty growth. Pandanus Veitchii is found a good seller; the stock of these was never better. Boston ferns were observed in larger stock than in former years. The demand has been very heavy for this old favorite. A small lot of Nephrolepis Piersoni was noticed in fine condition. The call for these had been heavier than anticipated, and they sold better than formerly. The firm ascribed the increased demand to the plant's wants being better understood by the average grower; that if grown in the right temperature and soil it will prove a better house plant than at first experienced. A batch of N. Scottii, as seen growing here, bespeaks a good future for this fern; it will no doubt prove a good house subject. A few of the new Tarrytown fern were also noticed.

Bedding plants of all kinds replace the flowering and decorative stock grown earlier in the season, the former being used mainly for catalogue trade. A large cold storage cellar has been built in recent years for the storage of dormant plants and roots of all kinds, and fruit and shade trees. R. J.

Begonia Gloire de Lorraine.

As a popular plant for the Christmas trade few, if any, equal Begonia Gloire de Lorraine. It was unquestionably one of the leaders in Boston this season, the demand being for plants grown in six, seven and eight-inch pots or pans. The illustration shows a house, grown for the Christmas trade, by R. & J. Farquhar & Co., Roslindale, Mass., and which was entirely cleared out for that holiday. The majority of these plants were in seven-inch pots, having been shifted into the flowering size during August.

To grow this begonia successfully is to start aright, and the wintering over of the plants to propagate from is a very important item. They may be best wintered in a moderate temperature, say 55 degrees. Pinch off all flowers, and keep the plants moderately dry until about the middle of March. About this time the temperature may be raised to about 75 degrees and water given more freely; but careful watering is one of the most important matters at all times in growing these begonias. Cut off all old, useless wood, also any flowering wood that may appear. The shoots that start from the base of the plants will make the best cuttings. These may be put in from April till June, or even later. During Summer, the house should be shaded slightly; and a slight syringing may be occasionally given the plants. They may be potted on from two and a half inch to four and seven-inch pots, as they require; and pinching may be done as necessary to form well-shaped plants. In bringing the plants into bloom, take off all shading, and before selling, harden off by reducing to a temperature of 50 degrees. A rich light soil, composed of loam, leaf mold, or well-rotted manure and sand, is best for the growing of these plants. J. W. DUNCAN.

Winter-Flowering Begonias.

The genus Begonia affords a rich store of wealth to horticulture, and especially welcomed are those which reserve their pleasing colors till the dark days of Winter when flowers are flowers. Among those which do this verily, B. Gloire de Lorraine has easily won the premier place. Since the time of its introduction, by M. Lemoine, it has rapidly gained favor and prominence, and from being a unit among a collection of plants it is now handled by the thousand by the trade.

Since the discovery of the little winter-flowering species, Begonia socotrana, which has furnished for the hybridist such a good parent plant, quite a number of hybrids have been evolved, and apart from Gloire de Lorraine, which finds its parentage in B. socotrana, there are others which though not equal perhaps to Lorraine are well worthy of consideration from horticulturists. I refer to the race of hybrids raised and sent out by Messrs. Veitch, of Chelsea, England, in recent years, which are still comparatively little known, or at least little grown.

This race of plants was the result of crossing B. socotrana and some of the summer-flowering tuberous-rooted varieties of the Andean species.

The first of this class was named after the raiser, John Heal, who is still with the firm of Veitch, and is a successful hybridist. Other varieties followed in the train of this, until we have now quite a group of these plants.

The best and most distinct are the following: Winter Gem, a rich crimson-scarlet; Ensign, a large double-pink; Mrs. Heal, bright rosy-carmine flowers three inches in diameter; Myra, carmine-rose flowers; Julius, a plant of compact growth, with pleasing double-pink flowers, and Winter Cheer, a plant well worthy of its name, bearing pretty semi-double flowers of rosy-carmine color.

To see a group of these plants flowering profusely in Winter is truly a telling sight, and if such results are obtained in and around London, where the fogs of Winter play havoc among flowering plants, what good results we could reasonably look for in this country where the atmosphere is so much drier and clearer!

The culture of these plants is much the same as that of Gloire de Lorraine. After the plants have finished flowering they are cut down and encouraged to break from the bottom; and if cuttings are taken in March and kept growing in a temperature of fifty-five to seventy degrees, good, strong, sturdy plants in six-inch pots will be the result by October.

They require a fairly rich open soil, and should not be potted very firmly. A careful use of the waterpot is needed, as, if too much water is given, the plant is very liable to go off at the collar. Much failure is often brought about by indiscriminate watering. A little lower temperature at flowering time will greatly aid in retaining the bloom for a longer period.

A plant of exceptional merit is Begonia Gloire de Socaux, which also has its origin in B. socotrana. This plant is an ornament for its fine metallic leaves alone, and when crowned with its panicles of charming pink blossoms is indeed a pleasing sight. Well grown specimens attain a height of two and one-half feet. Like Begonia Gloire de Lorraine it is a profuse bloomer, and has a remarkable way of flowering a second time after the first lot of blossoms have gone off. The same thing is very noticeable with Gloire de Lorraine. To procure good cuttings of this plant, it should be cut back below where it has flowered to induce it to make lateral shoots, and dur-

ing its growing season this begonia will do with a little higher temperature than most of the others.

Another winter-flowering begonia which is rarely seen in cultivation is B. polyantha, a species from Mexico. Perhaps the color of the flower is not all that may be desired, being a bluish-white, yet its great blooming propensities will speak volumes for the plant. I think the flower would assume a deeper shade if grown in a position where all available light would reach it in Winter. It is a rampant grower, and will need thinning out during the growing season, leaving only three to four of the strongest main shoots, which will be about three feet high at flowering time. The most forward will commence to bloom early in November and with a batch of plants a display may be kept up till January.

Although this begonia will, if treated liberally, continue to flourish and do well a second season, yet cuttings, rooted every Spring, will make dwarfer plants, and the flowers will be altogether better.

EDWIN MATTHEWS.



HOUSE OF BEGONIA GLOIRE DE LORRAINE
Growers, R. & J. Farquhar & Co., Roslindale, Mass.

Hollyhocks.

There are no hardy herbaceous perennials more useful, and were they not so subject to the attacks of a fungus disease, none would be more popular than the hollyhocks. Unfortunately, the attacks of the fungus make the raising of hollyhocks very difficult, and a rather uncertain crop. A good stock of healthy plants find ready sale, as the supply is never equal to the demand.

At one time nurserymen catalogued named collections of these stately old-fashioned flowers when they ranked very high in popular favor and were much in evidence at the exhibitions. It is very doubtful now if there is a named collection in America.

The propagation of named kinds necessitated striking of cuttings, which were made from the side shoots; these rooted very readily with a little bottom heat. This method is rarely practiced now, as plants raised from seed are much more vigorous and disease resisting.

By raising plants every year from seed it is still possible to have a good display of bloom; this will be found more profitable than attempting to flower the plants a second year.

Seed sown in the open ground in April, as soon as the ground is in condition to work, will produce fine strong plants by the Fall. A very small percentage of these will flower the first Summer, but these are hardly worth taking into consideration. To produce strong flowering stems it is necessary to have good heavy plants, as they are somewhat of a biennial in their habit, storing up food in their thick, fleshy roots to enable them to throw up good heavy flowering stems.

Some growers sow the seed as soon as ripe in the Fall, usually about September, with equally good results as compared with that sown in April, but the roots of course are not so large for the Spring sales.

By sowing seed in the greenhouse in early March and growing the plants on in pots until such times as the weather is suitable to plant them out in the open ground, a goodly portion of them will usually flower the following Summer, but they will be rather later than those sown the year previous and will not throw up such strong stems.

Although meeting with good success on the whole, I do not remember raising a crop of seedlings that were absolutely free from the fungus, even when sown on new ground and under conditions that should have made contamination impossible. The spores of the disease are evidently with the seed, and experiments treating it before sowing may be productive of good results.

Light, well-drained soil is the most suitable for hollyhocks, and if it is deeply worked and fairly rich, so much the better. Although they are liable to the attacks of fungus grown under almost any condition, good treatment enables them to overcome it better than all the fungicides that can be used, when the plants are set in a position that does not meet with their requirements. This has been impressed upon me on several occasions. One lot of plants which were remarkably free from the disease, except at one point where the ground was rather poor owing to the presence of a large oak tree. On other occasions I have noted in a large field of hollyhocks certain spots where the ground was not well drained, the disease was much more in evidence.

ERNEST HEMMING.

CLUB AND SOCIETY DOINGS

THE WESTERN NEW YORK HORTICULTURAL SOCIETY will hold its annual meeting in the common council chamber in the City Hall, Rochester, N. Y., on the 25th and 26th of this month. The meeting marks the fiftieth anniversary of the society. It is expected that the attendance will be very large and that the exhibition of fruit will be larger and more interesting than ever before. It is announced that the awards of the Ellwanger cash prizes will be made at the meeting and that there is a competition for the Barry gold medal for a new fruit, ornamental tree or shrub, flowering plant or vegetable. Papers will be read at the meeting as follows:

"Progress of Fifty Years," Dr. L. H. Bailey, director, College of Agriculture, Cornell University. "Some Insect Problems and Experiences" (illustrated with lantern slides), Professor M. V. Slingerland, assistant professor economic entomology, Cornell University. "Stray Thoughts," Hon. J. H. Hale, South Glastonbury, Conn. "New York Apples," Professor S. A. Beach, horticulturist, New York Experiment Station. "The Future of the Plum," Charles M. Day, Geneva, N. Y. "Sulphur Sprays for Orchard Treatment," Professor P. J. Parrott, entomologist, New York Agricultural Experiment Station. "Blackberry Culture," Simeon Stace, Charlotte, N. Y. "Report of Committee on Botany and Plant Diseases," Professor F. C. Stewart, botanist, New York Agricultural Experiment Station. "The Composition of Commercial Soaps in Relation to Spraying," Dr. L. L. Van Slyke, chemist, New York Agricultural Experiment Station. "Results of the Orchard Survey in Wayne and Monroe Counties," Professor John Craig, professor of horticulture, College of Agriculture, Cornell University. "Some Pear, Peach and Apple Notes," Abram Cole, Greece, N. Y. "The Western New York Horticultural Society" (historical), P. C. Reynolds, a former secretary of the society, Rochester. "The Experiment Station as a Horticultural Factor," Dr. W. H. Jordan, director New York Agricultural Experiment Station. "The Relationship of Plants in the Orchard," (illustrated with lantern slides), Professor U. P. Hedrick, Michigan Agricultural College, Lansing, Mich. "The Higher Standard in American Horticulture," George T. Powell, Ghent, N. Y. Many interesting questions will also be answered through the Question Box.

PROVIDENCE FLORISTS' CLUB.—The ninth annual banquet of the Florists' Club was given at the "Newman" on Thursday evening, the 12th, at which time the newly elected officers were installed and dined. The menu was a credit to the committee of arrangements, which included T. J. Johnston, C. S. Macnair and William Hill, who had arranged with Proprietor Mansfield for a special dinner at a low figure, and many of the guests proclaimed it as the best spread ever served to the club. W. E. Chappell served as toastmaster and announced the following officers for this year: J. Schellinger, president; T. J. Johnston, vice-president; W. E. Chappell, secretary; and A. Rennie, treasurer. These new officers are well appointed, and considerable thanks are due Messrs. Chappell and Rennie for their constant and never-failing attendance, and the faithful manner of the conduct of the club business, which is quite a little at times. The following invited guests were present: Mr. Bryant, of A. H. Hews Company, with his specimen of the improved Pierson fern; C. W. Smith, of the Rhode Island Horticultural Society; W. J. Stewart, of Boston, who made the speech of the evening, and Professors Wheeler and Card, of the Kingston College. Altogether it was the banner meeting of the club.

C. S. MACNAIR.

CHICAGO HORTICULTURAL.—The annual meeting of the Horticultural Society of Chicago was held January 10 at the Auditorium Annex, and in the absence of President Uihlein, J. C. Vaughan presided. Reports of officers were read, that of Treasurer Rudd showing a very satisfactory balance in the treasury. Adjournment was made subject to call of the committee on the nomination of officers, said committee to be appointed by the presiding officer, he to be one of them.
R. J.

CHICAGO FLORISTS' CLUB.—The regular meeting of this club was held Thursday night, January 12. A large attendance was present, twelve new members were elected, and four names presented for membership. The report of the financial committee showed this club to be in good standing. The committee on entertainment of the American Carnation Society reported progress in the work undertaken, a banquet being scheduled for Thursday evening at the Auditorium Hotel.

An address by H. M. Altick, of Dayton, O., in relation to the Florists' McKinley Memorial Fund, created considerable enthusiasm, which resulted in the wholesalers, growers and retailers present deciding to contribute to the memorial fund from the proceeds of their carnation sales on January 28, 5 per cent., 15 per cent. and 25 per cent. respectively, those present signing an agreement to that effect before leaving the hall. A committee was appointed to attend to this matter, consisting of George Asmus, Leonard Kill and E. C. Amling, they to draft a suitable resolution to be sent to all florists, asking them to attach their signatures, agreeing either to give the above percentage or a certain sum of money; also to see that appropriate signs are placed in every retail store in the city, calling the public's attention to the sale on that day, and to get the public press to give suitable notices through the daily papers a few days in advance of the event. In the discussion that followed it was brought out that growers of the leading novelties had already placed orders for over a quarter of a million flowers for that date, and that one local wholesale house had sold \$3,700 worth of carnation blooms in the South last month. The prevailing opinion is that a considerable sum of money will be raised in this way, which will give the trade great prestige in years to come. It can also be brought to the attention of the general public that the late President McKinley had no choice as regards color in the carnation, being as will to wear a white as a pink carnation, so buyers, in placing orders for that day, need not be afraid to purchase white, as well as colored stock, as whatever is available will be worn, regardless of color. This is from good authority, the family of the late President McKinley having given it out that, as regards color, he had no choice, and wishing to correct the public impression that red was his favorite color and that no other should be worn on that day.

R. JOHNSTONE.

PENNSYLVANIA HORTICULTURAL SOCIETY.—The regular monthly meeting, on Tuesday last, was well attended. Many rose growers came to hear John G. Gardner's paper on the "Multiflora Stock for Grafting Roses for Outdoor Planting." In answer to a question as to the practicability of this stock for indoor roses, he said, he had tried Liberty and Bride on this stock with success. By planting the newly grafted stock outdoors as soon as admissible in Spring, lifting the plants in June, planting in boxes and growing along under glass, he cut flowers with perfect stems all winter, getting more flowers than from own root stock, and at a lower temperature. The multiflora will grow better at a lower temperature than other roses. For instance, newly grafted stock will start to grow at from 40 to 45 degrees, while the manetti stands still in such a temperature. For outdoor work, he says, find out what roses of the hybrid tea class will stand our winters; put them on the multiflora and grand results will be obtained. The new rose Killarney is the greatest acquisition in this class in recent years, in his opinion, and good results are sure to come from its use.

The exhibits at this meeting were: Flowering begonias, Mr. C. B. Newbold (Samuel Batchelor, gardener), took first; Mr. Samuel B. Brown (Jas. Crouthers, gardener), second. *Primula sinensis*, Mrs. Charles Wheeler (Wm. Fowler, gardener), first; the Misses Vanuxen (James Bell, gardener), second. These prizes were offered by Mr. Samuel T. Bodine. The Henry F. Michell Company offered the following prizes: Mushrooms and tomatoes, hot-house, captured by Mrs. R. J. C. Walker (John McCleary, gardener), first; cucumbers, Mr. James W. Paul, Jr. (Joseph Hurley, gardener), first; and cyclamen, Mr. P. A. B. Widener (William Kleinheinz, gardener).

The dates for the Spring show were selected for March 28, 29 and 30; and for the Chrysanthemum Show November 7 to 11, inclusive.

Arrangements are being perfected to hold the meetings of February and March in the afternoon in place of evening.

John Kuhn exhibited a seedling carnation of pleasing pink color, good stem and flower—seedling No. 99 × Prosperity—which looks like a good one. It will come before the committee on new flowers next month.
DAVID RUST.

ST. LOUIS FLORISTS' CLUB.—The first meeting of the Florists' Club in the new year was held last Thursday afternoon in the Odd Fellows' Hall. Twenty members braved the bad weather. President Juengel occupied the chair, with all the other officers present except vice-president Pilcher. Chairman Beneke, of the transportation committee, reported that the round trip fare to Chicago, for the Carnation Society's meeting, January 25 and 26, would be \$10; and it was voted that each member intending going should report to Mr. Beneke on or before January 20, so as all could travel in a body in a special sleeper provided by the Wabash Railroad.

All members who are in arrears with their yearly dues, will be dropped from the roll if dues are not paid by next meeting.

A motion was adopted to revise the club's constitution and by-laws. The matter was referred to a committee of three, consisting of Otto Koenig, Emil Schray and Fred Meinhardt.

The matter of holding a chrysanthemum show this Fall was referred to the trustees, who are to report at the next meeting the best possible plan for holding a paying exhibition. A vote of the members will then be taken on the subject.

On motion of Mr. Fillmore the club decided to have a carnation show at the next meeting; and \$50 in prizes will be offered. Messrs. Beneke, Schray and Meinhardt were appointed a committee to take charge of this exhibition, which will be held on Thursday afternoon, February 9, at 2 o'clock in Odd Fellows' Hall, corner Ninth and Olive streets, eighth floor.

Just before adjourning Mr. A. Jablonsky created quite a sensation by making a motion that the club should appoint a committee to look into the advisability of building a club house, with bowling alleys, for the use of the St. Louis Florist Club, to hold therein meetings, entertainments, and exhibitions for the benefit of the club members generally. The president did not take Mr. Jablonsky's motion seriously, and refused to put it before the members; but the members insisted, and the motion was adopted. So Messrs. Jablonsky, Ammann and Steidle will report on this at the next meeting; and we may some day have a club house of our own.

ST. PATRICK.

THE STATE FLORISTS' ASSOCIATION OF INDIANA at its yearly meeting in Indianapolis, January 17, elected the following officers: President, Fred Lemon, Richmond, Ind.; vice-president, Herman Junge; second vice-president, John Rieman; secretary, Fred Huckleide; treasurer, John Heidenreich. J. A. E. Haugh, Anderson, Ind.; A. Baur, Gunnar Tielmann, Marion, Ind.; John Evans, Richmond, Ind., and E. A. Nelson, were elected on the executive committee. The meeting was well attended. Several of the members took advantage of the occasion to exhibit roses and carnations, among them Stuart & Haugh, Anderson, Ind., who staged two vases of fine Mrs. Lawson and Enchantress carnations. Baur & Smith brought two vases of fine carnations, one of Indiana Market, another of mixed seedlings. John Hartje exhibited a vase of mixed seedlings, as did E. T. Grave, of Richmond, Ind. M. Schreiber, of Bertermann Bros. Co., had two vases of variegated carnations (seedlings) which were greatly admired; E. Done, of Broad Ripple, Ind., was on hand with a large bunch of calla. Gunnar Tielmann's vase of G. H. Crane carnation was very worthy. A committee, composed of Fred Lemon, John Rieman and John Hartje, was selected to pass upon the above exhibits. All were awarded honorable mention. Bertermann Bros. Company received a certificate of merit for their new carnation No. 340; this variety has the coloring of Armazindy, but its qualities are far superior.

The question of a Spring exhibition was brought up in a long discussion. John Rieman, A. Baur and William Billingsley were finally named as a committee to attend to the arrangements for a Spring show. A communication from the Indiana Floral Festival Association in regard to a large chrysanthemum show next Fall was favorably received.

The question box brought forth many subjects; some of the topics discussed were: Wooden gutters vs. iron gutters; Grafted roses vs. Own root roses, and the Growing of Gloire de Lorraine begonias.

A committee, consisting of E. G. Hill, J. A. E. Haugh, and H. Rieman, was named to inquire into the needs of the experiment station at Purdue University, as set forth by Professor Arthur. This committee was instructed to see what could be done in regard to furnishing the station financial help, through the Legislature, or otherwise.

The fragrance of the many flowers exhibited was wafted through the corridors of Indiana State building, until our newly seated Governor Hanley was attracted to the rooms; after a few words of praise for the association he retired, fairly loaded down with flowers.

The yearly meeting of 1905 ended with an elaborate banquet served at the St. Dennis Cafe.
I. B.

MASSACHUSETTS HORTICULTURAL.—The first lecture of the season of the Massachusetts Horticultural Society was given on Saturday, when Professor M. L. Fernald talked on weeds. About a hundred members were present and greatly enjoyed the description and history as told by the speaker of many of the weeds now common in New England.
J. W. D.

BOSTON GARDENERS AND FLORISTS' CLUB.—The first meeting of the year of the Gardeners and Florists' Club was by far the best of any ever held. Nearly a hundred gentlemen were present, some of them coming from quite a distance. The retiring president, Mr. Pettigrew, in opening the meeting and turning over the gavel to his successor in office, gracefully thanked the members for the grand support he had received during his term of office, and said it had been a pleasure to him to see such enthusiasm among the members as had been displayed recently. The new president, Mr. Wheeler, in taking up the reins, said in part: "Gentlemen, you have honored me by giving me the highest honor of this club. I thank you. If I can fill the position half as well as our retiring president I shall have done well. The club had got into a condition where we could hardly call it a club, but we felt, some of us, that there was need of such a club in Boston, and the members did wisely when they elected Mr. Pettigrew as their president, for he rallied what forces were left and brought in new recruits and by his faithfulness and perseverance he brought the club up to its present high standard. I know I express the sentiments of this club when I say we have not only learned to trust and respect him, but to love him, and we all feel indebted to him for what he has done. As I look forward to the future there seems to be the promise of a very prosperous year. There is a very wide and useful field for us to work in if we all stand together and fulfil the object of our charter. We each want to feel that the future prosperity of this club rests upon our own individual efforts. If you wish to know anything about our profession, ask; and if you know, tell it. We want to increase the funds of our treasury; we can do that by bringing in a new member and by paying our own dues promptly. We want to make our meetings so interesting and attractive that no florist or gardener, or anyone interested in horticulture, can afford to miss one of them. I feel that in making awards for exhibits we should have different forms from those used by the Massachusetts Horticultural Society, so that growers would desire the awards of both. We should make them so valuable that they will be sought after by all. I ask the hearty co-operation of every member, that we may all work together and make this the banner year of our club."

The report of the treasurer showed a slight deficit for the year, although the fund in the treasury remains practically the same as a year ago. An interesting discussion, introduced by Mr. Farquhar, took place on the form of the awards that should be made. Messrs. Fewkes, Orpet, Stewart, Craig, Finlayson, Anderson and others spoke on the subject, and it was finally agreed to lay the matter over till next meeting.

There were many fine exhibits on the tables, among which may be mentioned vases of carnations Robert Craig, Lieutenant Peary, The President, Ethel Ward, Christmas Eve and Octoroon, from the Cottage Gardens, Queens, N. Y.; carnations Victory, Prosperity, White Lawson and Enchantress from Guttman & Weber, New York. Carnation Red Lawson, from W. J. Palmer & Son, Buffalo, N. Y.; carnation Variegated Lawson, from the H. A. Stevens Company, Dedham; seedling orchids, from E. O. Orpet, South Lancaster, Mass.; sweet peas, variety Mont Blanc, from Wm. Sim, Cliftondale, Mass.; and Begonia Tunford Hall, from Charles Sander, Brookline, Mass., who called attention to its good qualities and cited it as a fit companion to Gloire de Lorraine. Mr. Hamilton, of the Cottage Gardens, spoke for their exhibit, describing the varieties, and regretting the fact that Mr. Ward had been unable to be present in person. Alex Guttman spoke for their new carnation Victory and gave a brief history of its origin, and good qualities. He said it was now in its third year, and so far had not shown any sign of bursting calyxes. Mr. Sim spoke of his sweet peas, mentioning the fact that these were planted last July and were in solid beds and kept at a temperature of 50 degrees.

It was unanimously voted to unite with the Massachusetts Horticultural Society in extending an invitation to the American Carnation Society to hold its next convention and exhibition in Boston.

An interesting talk was given by J. Woodward Manning on "The Gardener and Landscape Gardening." He spoke of the many opportunities lost in the proper planting of grounds, etc., and gave some lantern views to illustrate his talk. Unfortunately the lateness of the hour prevented any discussion on his very interesting talk.

Refreshments were served at the end of the meeting, and all those present were thoroughly satisfied that they would have to be present next meeting, which will be held on February 21.
J. W. DUNCAN.

Society of American Florists and Ornamental Horticulturists.

Department of Plant Registration.

Patten & Co., Tewksbury, Mass., submit for registration the following carnations:

MIKADO, a variegated seedling of 1902 (Governor Roosevelt × Prosperity); style of growth similar to that of Governor Roosevelt; color, white overlaid with crimson; size of bloom, 3-3½ inches.

PINK PATTEN, a sport from Mrs. M. A. Patten; color, clear, dark pink. WM. J. STEWART, Secretary.

CANADIAN NEWS

LONDON, ONT.—Until the last week trade since Christmas has been above the average; but we are now experiencing the depression that is so general at this season. Cut flower stock of all kinds is plentiful, and of splendid quality. White is being used in funeral work, but much colored stock is being left on hand. In plants there is practically no movement, although plenty of fine stock, both foliage and flowering, is seen. *Lilium Harrisii* has been in some time; there is, however, very little demand for the flowers.

Mr. Mitchell, of Innerkip, Ont., the Canadian pelargonium specialist, has sold his entire stock, consisting of about 7,500 plants, mostly of new and undiscovered varieties, to Messrs. Gammage & Son, of this city. Mr. Mitchell has removed to London, and will take charge of the department that has been devoted to this specialty. Before taking up the pelargonium as a specialty Mr. Mitchell did some very successful work hybridizing tuberous begonias, and no doubt many of the members of the S. A. F. O. H., who attended the convention of that society at Toronto, will remember the fine exhibit of seedling tuberous begonias made there by Mr. Mitchell.

Gammage & Son's new range of 40,000 feet, built last year for carnations, is now in splendid condition, and shows no signs of the late planting that was so detrimental early in the season. Speaking of the varieties, the grower, William Hickson, says, as a fancy white *White Lawson* is easily ahead. Only about one-third of the plants of this variety are used for cut flowers; the balance are grown for cuttings only, as this variety will be extensively planted here next season. For a general purpose white, *Queen Louise* is the best. For quantity of bloom for such purpose as funeral work, *Glacier* easily leads. *Enchantress* and *Mrs. Lawson* are the best pinks. *Governor Bliss* is the best red. *Harlowarden* is the best crimson, and *Marshall Field* leads in variegated. In general varieties note may be made of *The Marquis*, which is much above the average; the stems are excellent. *E. A. Nelson* is very fine and is proving an excellent keeper. *Golden Beauty* is also fine, but not free flowering enough. *G. H. Crane* is giving abundance of good flowers. *Estelle* has a splendid color but, as usual, the stems are short. *Peru* and *Murphy's White* are both excellent. *Stella* is a mass of buds. Propagating is progressing rapidly and successfully; as an indication of the stock being produced already over 15,000 of *Mrs. Lawson* alone have been taken from the sand.

FRED BENNETT.

OTTAWA.—Since my last letter we have had a big snow fall. On Friday and Saturday, January 6 and 7, we had a big blizzard and a snow fall of 21 inches. The greenhouses were literally snowed under, entrance doors having to be dug out to their full height from drifts; all hands were kept busy all day scraping off the roofs which, in some cases, were pretty shaky with the weight. On some roofs the drifts were three feet, and as it became wet from sleet and rain following the storm, it had to be cleared at once. Unfortunately, in this operation, a lot of glass gets broken. Our houses are all detached from two to six feet, but in a climate like this, a distance between of eight or ten feet is the most sensible. *Graham Bros.* report great trouble with their snow gutters, and want no more attached houses, as it is impossible to clean the snow away. In the middle of the week another heavy snow fall came and filled up any odd corner, so that now we are banked in solid, and will have great trouble should another storm visit us.

Trade has been good this week with the opening of Parliament, and the large number of visitors in the city. The drawing room reception in the Senate chambers was the most imposing that has ever taken place, the dresses and bouquets being the greatest features. All the florists were kept busy until 8 o'clock, bouquets being the features. *Roses*, *Lily* of the valley, *carnations* and *violets* were mostly used. But by all accounts there was such an attendance and jam that the bouquets were soon

crushed and dragged to pieces. The stock was good, carnations were plentiful. *Roses* had to be brought from outside (Toronto and Brampton), and the stock sent in was very fine. *American Beauty* were not to be had in sufficient quantities. The home-grown stock of *violets* was plentiful, and of good quality. *Lily* of the valley was also plentiful.

The Ottawa Horticultural Society held its annual meeting and election on Wednesday. The reports read showed a good balance in the treasury and increased attendance and more exhibitors and exhibits. Many city improvement matters were discussed, such as pruning of shade trees, decorations of public places and the best way of inducing private people to continue the great improvements already made in grounds and lawns that have done so much to make Ottawa the beautiful city it is getting to be. *Alderman N. G. Black* was elected president; *Mayor Ellis*, first vice-president; *R. B. Whyte*, second vice-president; *J. Watson*, secretary-treasurer; *J. Graham*, *E. I. Mepsted*, *W. McCann*, *W. H. Snelling*, *P. J. Keyes*, *G. A. White*, *S. Short*, directors.

HAMILTON, ONT.—The Webster Floral Company had an unfortunate break in a steam main on January 10. A bright day and careful management of the small available steam pressure saved things till repairs were completed. They will no doubt add to their boiler capacity as soon as possible to avoid a recurrence of the experience.

A small bench of sweet peas here are coming along very nicely. The firm says that prospects for Spring shipping business were never better.

John Morgan is cutting some grand carnations. His *Princess of Wales* *violets* are keeping up to the high standard seen in the early part of the season. In carnations, *Fair Maid* and *Harlowarden* are giving great satisfaction. A good quantity of *Glacier* is also grown and found quite profitable. *Mr. Morgan* has a heavy call for rooted cuttings.

Frank Morgan is working the place owned by the late *John Fox*. He is a brother of the above-named gentleman. It is one of the best paying stands in the city.

Walter Holt has lately put in a steam boiler and done away with most of his hot-water coil boilers. A considerable saving of labor in firing is effected. *Mr. Holt* has a plant which would interest some novelty seekers. It is a heavy and evenly variegated form of *Asparagus Sprengeri*. Each leaf division is variegated. Its constancy has been proven, as the plant is two or three years old.

BEAVER.

New York.

News of the Week.

At the annual meeting of the Long Island Farmers' Club, held at Mineola, on Tuesday evening, the principal feature was an address given by *C. W. Ward*, of Queens, L. I. *Mr. Ward*, in the course of his remarks, warned the club that unless there was concerted action, and a demand made upon the agricultural department of the State, Long Island farmers need expect but little from the Board of Directors of the Geneva station. *San Jose* scale is playing havoc with the fruit trees on Long Island, and to the end that something be done by the State Experiment Station toward combating the pest, a committee of three was appointed to make arrangements for a farmers' institute to be held some time next month.

On the morning of January 6 the greenhouses of *A. L. Thorne*, Flushing, N. Y., were broken into; damage to plants to the extent of \$400 was done and some clothing belonging to *Mr. Thorne* was stolen. Detectives were put on the case, with the result that *Charles Tracy*, 47 years old, 18 Juniper street, Flushing, was arrested, having the stolen clothing in his possession. In the police court *Tracy* pleaded not guilty, and is held in \$1,000 bail. He went to jail, not being able to procure a bondsman.

William Nesbit Crane, a florist, of Rhinebeck, N. Y., and *Miss Evelyn Almira Schaffer*, of the same place, were married in this city last week.

The elaborate Winter window box planting that has been done at the prominent hotels, and at many of the large apartment houses, was the subject of an illustrated article in the *New York Herald* on Sunday last. This kind of advertising should be very beneficial to the florists of the city who cater to that line of business.

A. N. Pierson, Cromwell, Conn., has commenced making daily shipments of roses to this market through his agents, the *W. S. Allen Co.*

So far as we have been able to learn, there will not be a very large delegation from this city to the annual meeting of the American Carnation Society, which takes place in Chicago next week. *Mr. and Mrs. Eugene Daille-douze* will go, and on their return journey will stop at Richmond, Ind., to see their son, *John*, who is studying at the establishment of *E. G. Hill Company*.

A. J. Guttman will also visit Chicago, and will take along some flowers of the new carnation *Victory*.

That great annual event, the *Arion Ball*, takes place this year on February 10, in the Madison Square Garden. In place of the usual procession of masqueraders a new feature will be introduced in the form of an automobile flower parade, with the throwing of confetti, after the Italian and Spanish fashions.

There seems to be a great revival in the bowling interests in this city, and one would think by the vigorous practice work that is being done, and the frequent matches that are occurring, that *New York* should be right in line by the time the national tournament takes place next August.

Thursday a match was on with *Flat-bush*; on Friday, January 27, *Madison* has to be met and conquered. Last Saturday *Hoboken* was defeated, and they are talking about having another try. Truly these are strenuous times for the bowlers.

The Florists' Club dinner, which occurs Saturday evening, February 4, in the *St. Denis Hotel*, is going to be a larger affair than for some years past. The acceptances, so far, have been many, and all who intend going should notify the chairman of the committee, *Walter F. Sheridan*, at the earliest possible moment.

J. A. Budlong and son, Providence, R. I., and *J. F. Huss*, Hartford, Conn., were in town this week.

Saving Fuel.

By J. M. W. KITCHEN.

(Concluded from page 784.)

One defect in the heating appliances in general use is that the ignited fuel and burning gases in the combustion chamber are brought into contact with heat absorbing surfaces before the process of combustion is complete; the result being that there is a reduction of the heat of the burning gases, while a quite high heat is necessary to secure perfect combustion. Furthermore, it requires a considerable time to secure an admixture of air and the volatilized gases before the combustion occurs; and this requirement is scarcely ever provided for in heating apparatuses before heat is absorbed from the gases. This is another source of loss. In most old style and in many new style furnaces, an entirely inadequate area of heat absorbing surface is provided in the apparatus in proportion to the grate surface. In this particular it is fair to say, that some manufacturers have partly awakened to the deficiency. Many heaters allow of a too quick transit of the heating gases over the heat absorbing surfaces so that time enough is not given to secure absorption of the heat generated. This is particularly the case where the gases pass progressively from a low level upward with a final exit at a high level of the absorbing surfaces. One universal defect in old time boiler construction in the correction of which "The Torridor" inventions take a radical and unique departure, is that the water in a boiler is kept at too uniform temperature throughout the boiler, thus failing in furnishing an absorbing recipient for large volumes of low degrees of heat.

Another new and important principle introduced in "The Torridor" inventions is to make the first application of the heat generated at the highest level

of the heat absorbing surfaces of the heater; to make further applications to those surfaces at progressively lower levels of progressively lower temperatures; with a final application at the lowest level of the absorbing surfaces of the lowest degree of temperature. The application of this principle secures added quickness of circulation of the water or air over the heat radiating surfaces of the heater, and a complete absorption of all the heat generated from a relatively small expanse of heat absorbing and heat radiating surfaces. In "The Torridor" heaters the combustion chamber proper is separated from the heat absorbing cavities; and no contact of heat with the heat absorbing surfaces is permitted until after combustion is perfected. The power of gravity is ingeniously and effectively applied in all "The Torridor" appliances to retain the gases of combustion in the apparatus proper, preventing the escape of coal gas and to apply varying degrees of heat to appropriate levels in the apparatus.

Whether the writer will profit much through his invention remains to be proved. It is one thing to invent; it is entirely another thing to make money out of an invention. Certain it is, that we have saved one-third in coal for heating during the past four years by a very imperfect application of the principles referred to in this article. In proportion as a knowledge of the principles are spread abroad and applied, just so far will those who suffer from heavy costs of fuel be benefited.

I want here to write one word of caution as to the action of "The Torridor Blue Flame Combustion Regulator," which is endorsed by me as a valuable attachment of all styles of heaters already installed. This attachment remedies some of the defects of boilers and heaters now in use. It does not make good a deficient area of heat absorbing surface. It will produce more heat from the coal burned and gives a remarkable control of the draft regulation; being especially useful to carry an even temperature all through the night. Now, many boilers that are too small to secure sufficient heat have to be run at a very intense uneconomical rate of combustion, especially during blizzard weather; and in such boilers the appliance cannot be used to the best advantage during such occasions; but in no case observed by me has there not been a sufficient saving effected in even such defectively small heaters during moderate weather to warrant the application of the device as an economical measure. In those cases where there is a sufficiently large heat absorbing area of surface provided and a combination of the desirable features here named, the application of the attachment will astonish and delight its user. All these matters and many other points of great interest are treated of in the pamphlet "Hints on Heating," owned by the Willowmead Co., which should be carefully read by everyone interested in the economical use of coal and successful heater management.

Chrysanthemum Novelties

Meretham Yellow, White Coombes, Emily Mileham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Duckham, the cup winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.

PARIS DAISY

Giant white, 2 in. \$2.50 per 100.

Asparagus Plumosus Nana, Extra heavy, 2 in. 20, 3 in. very fine, 4c.; *Sprengeri*, \$1.75 per 100. *Abutilon*, 4 vars., 2½ in., 3c. *Umbrella Plants*, 2 in., 2½c., *Hardy Pinks*, field clumps, 5 kinds, 5c.

LIST BELOW, ROOTED CUTTINGS, prepared per 100; *Ageratum*, *Gurney*, *Faulstich*, 50c. *Salvia Splendens*, *Bonfire*, *Silveropop*, 90c. *Fuchsias*, 5 best vars., \$1.25; *Heliotrope*, \$1.00; *Double Petunias*, 10 finest, \$1.00; *Hardy Pinks*, 7 sorts, some everblooming, 75c., \$7.00 per 1000; *Rex Begonias*, R. C. 15 sorts, mixed, \$1.10; *Alternanthera*, red, yellow, R. C. 50c. \$1.50 per 1000; *Vlnca*, variegated, 90c.; *Ever-blooming Forget-me-not*, \$1.00; *Tradescantia*, 2 kinds, 75c.

CASH. BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.



Primrose Buttercup.

(33) What is the origin, best way of propagating, and cultural methods of the primrose called "New Primrose Buttercup" or "Yellow Christmas Primrose"?

—There is some doubt as to the origin of *Primula Buttercup*, but there is no doubt of its relationship to *P. floribunda*. It was thought that the variety was *P. Keenensis*, but the corolla tube of *Buttercup* was found to differ very much from that variety, being much shorter, in fact. *Primula Buttercup* comes readily from seed, and needs but the same cultural treatment as is given other commercial primulas. Sow the seed in early March, and as soon as the young plants are large enough to handle, pot them in 2 1/4-inch pots. Give them a shift into larger pots as soon as necessary, and keep them moving right along. A partially shaded cold frame is the best place for them during the hot weather; though early in the Fall, they will need to be put in a light position in the greenhouse.

Treatment of Azaleas.

(34) Should the new growth around the azalea buds be pinched off at once, as it appears; if not, what effect will it have on the flowers? Also, what temperature should azaleas be kept in now, the plants not having advanced much, to insure bloom by Easter? Should any fertilizer be used? INQUIRER.

—The growths surrounding the flower buds of the azaleas should be pinched out, because they spoil the appearance of the plant when it is in flower. The right temperature for azaleas at the present time, and until the last week in February, is about 45 degrees, and lower than that would be preferable, rather than a higher temperature.

Spiraeas for Easter Blooming.

(35) When should spiraeas be potted up, and about what temperature will bring them in for Easter? NOVICE.

—The spiraeas should be potted up at once, and placed under the benches in a rose or carnation house, where they can remain for about four weeks, after which time they should be given full light in a house where the night temperature runs about 58 degrees.

Greenhouse Plants for Summer Use.

(36) Kindly give me the names of some plants that can be raised for profit in the greenhouse during the Summer months. H. K. J.

—Tuberous begonias, gloxinias, and fancy-leaved caladiums are all plants that can be grown under glass during Summer, and would be profitable providing there is a demand for that class of stock. They would all require to be started at this time, however, to have them in good, salable condition during the Summer. If one could use the greenhouses until November, chrysanthemums could be grown to advantage, but, of course, it would not do to plant these if the houses had to be given over to some other crop before that time. Some growers utilize empty houses during the Summer by procuring young palms in the Spring and growing them for all they are worth during the hot months, and then disposing of them at wholesale in the early Fall. A good grower can use his houses very profitably that way.

Number of Flowers Thrown by Sweet Pea Plant.

(37) About how many blossoms does a healthy sweet pea plant throw during its season? H. K. J.

—Just how many flowers a sweet pea vine would produce we are unable to say, never having taken the trouble to keep a record. Perhaps some reader who has kept records will kindly answer this question.

Remedy for Carnation Rust.

(38) Please give a good remedy for carnation rust. We have the rust very badly on two end benches—one of *Enchantress* and the other of *Prosperity*. SUBSCRIBER.

—Carnation rust is no longer considered a deadly disease, as experience has proved that the plants will outgrow the trouble if ordinary care be taken. Pick off all affected leaves; give plenty of ventilation when the weather is favorable, and be sure to have the foliage good and dry during the night; in fact, all spraying should be discontinued for a time. Given good, healthy surroundings, the plants will outgrow the disease in a short time.

Watercress in the Greenhouse.

(39) Kindly inform me if watercress taken from the swamp will grow in greenhouse; also what soil and temperature are required. A. J. B.

—Watercress from the wild can be grown in almost any ordinary soil, in a greenhouse where the temperature runs from 54 to 70 degrees. We may remark, however, that watercress when grown in soil is very bitter, and scarcely acceptable as a salad.

California Carnation Cuttings.

(40) I would like to know what success Eastern growers of carnations have had with California cuttings. I received several thousand, and, with the best attention, could not make them grow. Cuttings of my own, put in the same sand and with the same temperature, all rooted. Is it the long distance, being packed so long, that takes the vitality out of the California stock? C. W. C.

—One or two Eastern growers of these cuttings have already narrated their experience with them. See page 38 of our January 14 issue. We shall be pleased to hear from others.

Asters in Old Ground.

(41) I would like to hear from some one as to how to grow asters successfully on old ground, on which they have been grown before. Almost any one knows about new ground, good drainage, and all that; but if no new ground is available, what then? The fact is, things have been growing continually worse, season after season, until it is of no use to plant that useful flower. Good asters were hard to find in this section last year. G. M. R.

—The question of growing good asters on the same piece of ground year after year is one that has confronted a good many florists whose land was of limited extent. If it were possible to instill into the minds of the average florist the necessity of treating our soils with more respect, considering the returns we expect the soil to yield us, we should hear fewer complaints of failures of crops, stem rot, dry rot and a host of other troubles usually set down as coming from poor seed, diseased stock, etc. Rotation of crops is always advisable, no matter how large or how limited the space for cultivation may be. Some crops exhaust the soil more than others, and for that reason chiefly is a change of crops most desirable. Presuming, however, that asters are the only crop that can be grown with profit, and that only one piece of ground is available, that ground, if treated rightly, can be made to produce good results. In the first place, unless there is good natural drainage, the land should be properly drained, so that neither in the Spring nor Fall will water be found covering the surface. In the Fall, after the dead plants and rubbish have been carefully cleaned off, the ground should be dug right down to the subsoil, or gravel. Bring the bottom spit up on to the surface, and turn the top spit down to the bottom. It may require the opening of a trench to do this, but it should be done. Leave the surface as rough as possible when finished, so that the Winter's frosts will have full effect on the soil. In the early Spring put on a good dressing of barnyard manure and dig it under; then when the weather becomes warm enough, the soil is fit to plant asters or any other annual, and a good crop of flowers is assured, providing ordinary care be taken in the cultural details after planting. By trenching the soil every three years, and digging deeply in other years, together with cleaning out the old plants carefully every year, there is no reason why, in a limited space, asters cannot be grown successfully year after year on the same piece of ground.

Insurance on Plants.

(42) Kindly let me know what fire insurance company will insure plants? WM. BELL.

—To secure a line on contents of greenhouses Mr. Bell would have to consult local agents or brokers. If they cannot place it for him, insurance cannot be obtained.

JOHN G. ESLER.

Easter Lilies.

(43) I have just moved my Easter lilies from a night temperature of 50 degrees to one of 60 degrees. The plants are about six inches above the pots. Shall I move the plants back to 50 degrees, or leave them in 60 degrees, night temperature? Longiflorum lilies, also moved to 60 degrees, are one inch above the pot. All are wanted for Easter. E. J. H.

—The lilies that are six inches high will come in too soon, if kept in a night temperature of 60 degrees. Put them where the house is kept at 55 degrees. The *L. longiflorum* should have 58 degrees from now on; and if the buds show before the first of March, a few degrees cooler will answer the purpose afterward.

Rats Eating Carnations.

(44) Beginner.—The trouble complained of is evidently the work of rats, as they are capable of pulling down the stems and chewing wherever they like best. Either a few rat traps, or a good cat, will remove the pests.

American Flag in Bedding Design.

(45) Kindly advise me which kind of carpet-bedding plants are the best to use for a United States flag? Will it do to take *Centaurea candidissima* for white; *Coleus Verschaffeltii* for red, and the dwarf blue *ageratum* for the stars? Please let me know which variety of plants, either foliage or flowering, are the best, as I intend to do an extra good job. C. M.

—If the bed is to be of large size, the plants mentioned will serve to carry out the design very well, if the *coleus* is kept at the desired height by careful and judicious pinching at least once a week. If the bed is limited in size, however, we would recommend *Alternanthera*, *P. major*, for red, *Echeveria secundata glauca*, for white, and the dwarf blue *ageratum* for blue.

Geraniums.

(46) Will March 1 be too late to plant rooted geranium cuttings in hot beds to make blooming plants about May 1? Are plants from 2-inch pots much superior to rooted cuttings? E. S.

—Geraniums grown in a hot bed for two months would give but poor satisfaction anyway. This plant cannot be forced over bottom heat and flower freely enough to please either the grower or the customer who purchases the plant finally. Planted in a hot bed with the roots unconfined, a rampant growth would result which would nearly all of it die back if the plants are lifted and potted, or transplanted even. Procure rooted cuttings now, and with care and attention, good 4-inch pot plants may be had during the month of May, and they will be far better than any that can be grown in a hot bed.

A two-inch pot plant is several weeks older than a rooted cutting, and is, therefore, just that much ahead. So far as being superior in any way, that would depend upon circumstances. If size were the main object, the 2-inch pot plant is superior every time.

National Association of Gardeners.

(42) Would you kindly give us your views of this National Association of Gardeners through The Florists' Exchange. I have asked a number of gardeners about this matter but everyone is in the dark. Could you enlighten us on the subject? A GARDENER.

—We regret we have little information on this subject to impart. The matter of establishing some sort of an association of gardeners, similar to the one recently organized in Great Britain, was exploited considerably last year in the columns of the now defunct *American Gardening*; and, from daily paper reports, we understand a temporary organization was perfected during the American Institute show in November

last, with a Mr. Maynard, of Rutherford, N. J., as secretary. We are ignorant of the aims and objects of the proposed association, and cannot, therefore, give our views thereon. Any gardener, however, desirous of being in good progressive company, cannot do better than affiliate with the Society of American Florists and Ornamental Horticulturists, the doors of which are open to him, and its work right in line with the development and improvement of his own vocation. Full particulars as to membership, etc., can be obtained from the secretary, William J. Stewart, 11 Hamilton place, Boston, Mass.

CATALOGUES RECEIVED.

JOHNSON & STOKES, Philadelphia, Pa.—Garden and Farm Annual, 1905, being a Catalogue of nearly 100 pages of field, Garden and Flower Seeds, Supplies, etc., profusely illustrated. This firm was the first among seedsmen to trust entirely to photographic reproduction in the illustration of its catalogue, so that the various subjects pictured in the Annual are seen just as they appear naturally.

The list of novelties and specialties in vegetables is an extensive and valuable one, including Spark's Earliana and Santa Rosa tomatoes, the Lannier Beets, New Klondike Cucumber, New Early Black Beauty Egg Plant, besides several new things in Onion, Radish and Squash. In flower and plant novelties are offered *Nicotiana Sanderae*, new carnation Giants of Nice, *Primula obconica Vesuvius*, bright earner, also novelties in Pinks and Panstles. Johnson & Stokes will distribute, in 1905, \$200 in cash prizes, for best photographs of the products of the firm's seeds.

WEEBER & DON, New York.—Catalogue of Garden Seeds and Tools, 1905. A well printed and profusely illustrated catalogue. The firm's list of novelties and specialties in vegetables includes among others, Beans Black Valentine, Bountiful, Mammoth Stringless Green Pod, Longfellow, Triumph of the Frames, and others; Cauliflower First and Best, excellent for forcing. In flower seeds we notice the new Record Asters—*Hortensia rose* and lilac; *Chrysanthemum maximum King*; Edward VII; new things in *Dianthus*, *Pansy American Show*, *Salvia splendens Maroon Prince*. Winter stocks Beauty of Nice and Queen Alexandra; and the new pink sweet pea, Gladys Unwin. The general lists of seeds are of the reliable sorts, for the sale of which this firm is well known; they are very comprehensive.

FARQUHAR'S GARDEN ANNUAL, SPRING, 1905. R. & J. Farquhar & Co., Boston, Mass., a profusely illustrated Catalogue of 160 pages of Vegetable and Flower Seeds, Supplies, etc. This firm's novelty and specialty list includes *Asters* Debutante, white; *Enchantress*, flesh pink; *General Jacqueminot*, crimson; *Lady Washington*, pale rose; *Blue Prince*, dark blue; *Impatiens Holstii*; *Lobelia tenuior*, cobalt blue, with white eye; *Evans' Boston Giant Mignonette* and others. Very attractive embossed cover illustrations are formed by several flowers of *Asters* and *Hardy Hybrid Perpetual Roses*.

JOHN LEWIS CHILDS, Floral Park, N. Y., illustrated Spring Catalogue of Seeds, Bulbs and Plants. The present is the thirtieth edition of this firm's Catalogue. The business, we are informed, started thirty years ago in a small way, "has built up an entire village, . . . here the world comes for its supply of *Gladidius* bulbs, and, to a lesser extent, other bulbs and seeds." Comprehensive lists of novelties and specialties are presented; the front cover being devoted to pink and yellow callas, *Rhemann* and *Elliottiana*.

R. VINCENT, JR. & SON, White Marsh, Md.—Wholesale Trade List of Vegetable, Greenhouse and Bedding Plants. This firm is one of the largest growers of vegetable plants in the United States, having over two and a half acres under glass for the special purpose of growing plants for the Winter and Spring trade; also about thirty-five acres for growing plants in the field. Their lists of *Chrysanthemums*, especially hardy pompon varieties, *dahlia*s, *geraniums*, etc., are also most extensive.

ARTHUR COWEE, Berlin, N. Y.—Illustrated Catalogue of Groff's New Hybrid *Gладиол*, and other varieties of domestic and foreign origin of acknowledged merit. Groff's *Gладиол*, which formed such an attractive feature of the Louisiana Purchase Exposition, at which Mr. Cowee kept up an exhibit during the entire blooming season, were awarded the Grand Prize. The catalogue contains many interesting hints on the culture of Mr. Cowee's specialty.

ARTHUR T. BODDINGTON, New York.—Illustrated Catalogue of Seeds, Bulbs, and Plants; also wholesale catalogue. The large number of the offerings presented demonstrate the progressiveness of this young but enterprising firm. ALBERT SCHENKEL, Hamburg, Germany.—Illustrated Catalogue of Plants and Seeds. Printed in German.

Review of the Market

NEW YORK.—There has been a general decrease in the rose supply, and the market is cleaning up much better than has been apparent for several weeks. The lower grades are firmer in price, but values of special blooms remain unchanged.

Carnations continue to be plentiful, and there has been no change in prices since last week. Tulips are coming in in heavier supply. La Reine, and Yellow Prince are both in ample supply and they are not selling so well, prices averaging quite low. Among the narcissus, Golden Spur has begun to arrive, and brings higher prices than any of the other narcissus arriving. Paper White are not much in demand; neither are Roman hyacinths nor lily of the valley. Violets are most unsatisfactory; there seems to be a big supply coming from up the river, in spite of the reports that many of the growers are consigning their stock to Chicago.

Lilac is getting plentiful; some of it has foliage, others have none, and prices run from 50c. to \$1 per bunch, according to quality. Sweet peas are in continuous supply, and from \$1 to \$1.50 per dozen bunches is the asking price, though they do not move very fast. Freesias, also, are coming in regularly, and are fetching 25c. per bunch. Mignonette has dropped a little within the last few days owing to the increase in quantity. Smilax and asparagus are selling fairly well, but strings of the latter are difficult to handle in quantity, the bunches having the best call. Cattleyas are moderately plentiful and for C. Percivaliana, low prices have been the rule. White orchids are only in fair demand.

BOSTON.—Business has been fairly good all the past week, and everything has been fairly well cleaned out. Some kinds of stock begins to show a scarcity, and prices have advanced very little. American Beauty roses are more plentiful than they have been, but there has been no variation in prices. Bride and Bridesmaid are inclined to be scarce and first-class blooms are now coming in, too, which has advanced prices a little over those of a week ago. Liberty are plentiful at present, but continues to be in good demand.

Carnations of all kinds are in abundance, and have a fairly brisk call. Lily of the Valley is plentiful. Lilies are also plentiful enough to supply all demands. Violets, which generally have had a good demand, are at present very plentiful, and prices have dropped accordingly.

J. W. D.

PHILADELPHIA.—Business conditions are better here this week. While there does not appear to be any rush of business at the retail stores, yet the wholesale houses have not as much stock on hand after trading is over for the day.

D. R.

CINCINNATI.—During the past week stock has rolled into this market. American Beauty was hard to move for more than \$3 per dozen. Carnations took hard pushing to move at all, such was the state of the market then. But the prospects are much brighter for the coming week. American Beauty have jumped to \$4 and \$5 per dozen for the best, and good teas to 6c., 8c. and 10c., while seconds and thirds sell at 2c. and 3c. Violets are hard to move. Princess of Wales are selling at 50c. to 75c. and \$1 per 100; New York doubles, 75c. to \$1; lily of the valley, \$4; Baby primrose, 50c. per 100. Carnations go at 1/2c., 2c., 3c., 4c., and plenty to go round. Last week, carnation shipped in, and not sold the same day were closed up tight by morning. This happened with the writer in two or three instances, and the grower, of course, wonders why he gets nothing for his shipment. The goods undoubtedly were all right when they left him; why they sleep, or close up, over night no one knows.

E. G. GILLET.

PITTSBURG.—Cold weather the past few weeks has had some effect on cut-flower trade, and if it had not been for considerable funeral work business would have been rather quiet. There is plenty of good stock at hand, yet prices hold their own. Good roses go at from 10c. to 15c.; carnations at from \$2 to \$5 per 100, some fine stock coming in. Lilies are more plentiful. Tulips are coming in of better quality; Paper White narcissus and Roman hyacinths are rather too abundant.

Plant decorations for funerals are more called for than ever before; they seem as necessary for cut flowers and floral pieces and those who do considerable of this work say it pays far better than decorations for social purposes. There is very little life in the plant trade, but the seed business is starting up.

E. C. R.

ST. LOUIS.—Trade continues dull in all lines of the florist's trade, except funeral work, which some days is quite plentiful. The wholesalers report that the production of cut flowers is beyond the demand. It cannot be said that there is any great overstock of the fancy grades. Prices, too, have gone down so that this fancy stock can be bought as cheap as common in the times of scarcity. The growers at present are not in the best of humor. The very disagreeable weather for the past week killed what little chance the downtown florist had in transient trade.

It is not an easy task to quote prices, and have them correct, as the wholesaler's first question is, when you ask the price, how many flowers can you use. American Beauty, both long and short, are in good supply, with fancy long as low as \$3 and \$4 per dozen; \$1.50 to \$2 for next choice; shorts \$5 to \$8 per 100. Bride and Bridesmaid, fancy, bring \$6; firsts and seconds, \$3 to \$5 per 100; other roses in this class are quoted at the same figures.

Carnations are in abundance in all grades and varieties; fancy stock in the leading sorts sell at \$4 and \$5 per 100. Good No. 1 carnations can be had at \$2 and \$3 per 100, with common at \$1 to \$1.50 in 100 lots. Whites are selling better than any other; Enchantress and Prosperity come next, then Mrs. T. W. Lawson, very few, if any, of this class are left over.

In bulbous stock everything is plentiful and demand slow. Roman hyacinths, freesias, Paper White narcissus and even Lily of the valley can be bought at your own price. Violets, both California and double, are suffering with the other stock in demand and price. Harrisii lilies and callas are more plentiful, at from \$10 to \$12.50 per 100. All greens are going slow, at usual prices.

ST. PATRICK.

CHICAGO.—Trade during the past week has been anything but satisfactory, there being little call for stock from any source. With almost impassable streets in some parts of the city, local trade has been very slow. The last two days, and the opening days of this week, stock moved a little more freely, a better demand from out-of-town buyers being noticeable. Some lines, especially white stock, are in very short supply, and hard work is experienced in filling all orders.

American Beauty are in excess of the demand, the call seeming to be smaller than in former years. The quality in general is very good. Prices on extra fancy are \$3 per dozen, with not much call for them. Other grades go at from \$4 to \$20 per 100, and some sales have been made below those figures to clean up. In Bride and Bridesmaid, the condition is the reverse, there being a scarcity. A heavy call for Bride has been experienced, and anything like good stock brings a good price—fancy at \$12 to \$15; other grades \$6 to \$10 per 100.

Of carnations, in colored stock there is an over-supply, those being hard to move at any price, while for white the call is beyond the supply, good white being held at \$2.50, extra stock at from \$3 to \$5 per 100. Colored stock brings \$1 to \$3 per 100, with clean-up sales at lower than the former figure.

The market is flooded with violets, wholesalers being unable to dispose of them at any price, and a considerable quantity going to waste. Extra good ones may bring \$1.25 per 100, but the majority are sold at from \$25c. to 75c. per 100.

Lilies of all kinds are in fair demand; there is a good call for callas which are not over plentiful, at from \$12 to \$15 per 100.

R. J.

INDIANAPOLIS.—Quiet has prevailed in the florist business during the past week; there is very little decorative, and not much funeral work. Stock of all kinds is very plentiful. Prices in many lines have decreased during the past few days, this is especially true of carnations, as some of the better grades may now be had at \$2.50 to \$3 per 100. Enchantress continues to outsell all other varieties, and brings \$4 per 100. At retail, carnations are usually sold at 75c. per dozen. Department stores are selling small stock at 25c. to 35c. per dozen. Roses are more than equal to the demand; 36-inch American Beauty at \$25 to \$30 per 100; shorts as low as \$5 a 100. Select Bridesmaid, Bride and Mme. Abel Chatenay wholesale at \$7 to \$8 per 100; the best Liberty bring \$12 a 100. Callas and Harrisii lilies are plentiful, at wholesale they bring \$1.50 per dozen; at retail, \$3 a dozen. Bulbous stock, such as hyacinths, narcissus, and lily of the valley, wholesale at \$4 a 100.

Plants, cyclamen, azaleas, begonias, and lilies are in the market in large numbers, but there is little sale for them. I. E.

PROVIDENCE, R. I.—We notice an improvement in business the past week with an increase of design work, which has consumed a goodly proportion of roses and carnations. Violets have been in the ascendancy at low prices for good stock. Princess of Wales and La France being quoted at 50c., and good California at 25c. per hundred; the latter violet produced some friction on Saturday by its being offered at the department stores at lower prices than the trade thought consistent, although the florists could have met the cut if they had deemed it wise. At the best we must figure the department store as a disturbing element among a lot of hardworking and poorly paid growers. Roses were a trifle short at times, but there has been no advance in prices, which stand at 3c. to 10c. each. Carnations hold firm at \$1.50 to \$3 per hundred, for good stock. Narcissus is quoted at \$1.50; Roman hyacinths at \$2 and white tulips at \$2 per 100. Maidenhair fern is somewhat scarce, but enough for immediate requirements. Fancy ferns have advanced a notch in price.

C. S. MACNAIR.

WASHINGTON, D. C.—Business this week has been very good; nearly all kinds of cut flowers have been equal to the demands. American Beauty brought from \$4 to \$10 per dozen; Tom Field, the new rose, which will be disseminated by George Field brings from \$6 to \$9 per dozen; Liberty, from \$4 to \$6; Bride, Bridesmaid, Meteor, Ivory, Souvenir du President Carnot, and Kaiserin Augusta Victoria, from \$2.50 to \$4 per dozen. Carnations are plentiful but somewhat poor in quality; prime stock realizes from \$1.50 to \$3; second quality from 75c. to \$1.25 per dozen. The stock of local violets is very limited, selling at \$1 to \$1.50, while the New York violets bring from \$2 to \$3 per 100, and are in demand. Sweet peas fetch 35c. to 75c. per bunch; lilaes, \$2 to \$3 per dozen sprays; Roman hyacinths, 50c. to 75c.; narcissus and mignonette, 35c. to 50c.; poinsettias, \$2 to \$3 per dozen.

Plants of azaleas of the smaller size have sold well at \$1 to \$2 each. Cyclamen are in demand at 75c. to \$1.25 each. Primulas chinensis and obconica, 50c. to \$1 each. The call for primulas is somewhat limited.

M. C.

LOUISVILLE, KY.—Business during last week was rather quiet, but a large demand for funeral work, at the opening of this week, makes prospects much brighter. Stock, of the various grades about equals the demand. Prices, continue to hold well. Retail prices received, are American Beauty, \$3 to \$6; other roses, \$1.50 to \$2.50; carnations, 75c. to \$1.50; lilies, \$3; narcissus, 50c. to 75c.; Roman hyacinths, 75c.; lily of the valley, \$1 to \$1.25, all per dozen; violets, \$1 to \$3 per 100.

A. R. B.

St. Paul.

Business Bits.

Trade for ten days past has been very quiet. Even the call for funeral flowers has diminished perceptibly. Bright weather has brought out an abundance of blooms until there is a surplus of good stock, besides a vast quantity of second and third grades. Violets are especially fine and plentiful. E. F. Lemke is picking some of the finest long stemmed blooms of Princess of Wales ever grown in the Northwest. Holm & Olson are handling La Detroit roses. It is a very pleasing variety and meets with ready sale. L. L. May & Co. are cutting choice Mme. Abel Chatenay, which are certainly wonders in size and beauty. This firm had a fine design for the Governor's inaugural in the way of a life-size picture of His Excellency framed in roses, lily of the valley, carnations, etc. It was the work of J. P. Jorgenson, who has lately assumed charge of the firm's retail store and reflected great credit on his ability as a designer.

L. G. Venzke and Mrs. E. F. Lemke have the sympathy of the trade in the death of their venerable father, who passed away at the age of 88 years while visiting a daughter in Reedsburg, Wis.

William Hagemann, of New York, was a recent caller. Also the representative of E. H. Hunt, Chicago.

VERITAS.

KANSAS CITY, MO.—We have had the best business we ever had, since Christmas until now, having had the largest decoration ever given in our city, and using 550 select long-stemmed American Beauty, 800 extra select Bridesmaid, and 26 table pieces of extra fine Gloire de Lorraine begonias. Our Christmas trade was most satisfactory. Plants and cut flowers were of the very best quality, and sold well at good prices. Baskets of azaleas, begonias and poinsettias went exceedingly well, and at good prices. The greatest increase was in plant sales.

S. MURRAY.



HOBOKEN VS. NEW YORK.—On Saturday evening, January 14, these two rival clubs came together on the Hoboken alleys and played three games, to decide which team was really the better of the two. There has been a lot of good-natured banter going on for the last two or three weeks, and John Birnie had become so thoroughly convinced that his team would be victorious, that when he had fully decided on the night to hold the match, he politely invited the New York boys to come to Hoboken and get beaten. Well, we went over and when the totals of the three games played were added together, New York was 105 pins ahead; this makes the second victory for New York against the Hoboken men this season. The latter are not entirely satisfied, however, and we look for another match before the season is over.

The Hoboken club treated the visitors in a right royal manner; a bountiful dinner had been prepared, and at the close of the match it was done full justice to. Every one had a hearty appetite, and it was sometime after midnight before Auld Lang Syne was sung and the meeting adjourned. The individual scores follow:

HOBOKEN.

P. Fischer.....	109	92	152
M. Hansen.....	150	140	127
C. Dietz.....	109	157	104
H. Mende.....	121	115	113
W. Otte.....	195	142	139
J. A. Manda.....	133	180	168
	817	826	805
Total of three games.....	2443		

NEW YORK.

F. H. Traendly.....	156	130	154
W. H. Siebrecht.....	126	122	171
T. Fenrich.....	106	94	109
A. S. Burns.....	154	146	170
P. Kessler.....	120	141	114
T. J. Lang.....	181	173	186
	843	806	904
Total of three games.....	2553		

J. Austin Shaw offered a silk umbrella to the bowler making the highest score, and W. Otte captured the prize with 195.

A GALA NIGHT AT FLATBUSH, N. Y.—On Thursday evening, January 12, the members of the Flatbush club held their annual prize bowling contest. The third game played was designated as the prize game, and those making the highest scores had the first choice of the packages displayed. Every member and visiting friend brought a prize; but as the wrappings of the packages were all placed with a view to mislead, there was no advantage in having first choice, the last man having just as good a chance as the first one. The prizes when opened all proved to be very substantial ones indeed, and every one was remarkably well pleased with his choice. P. Riley, with a score of 196 was first, and drew a magnificent smoking set, finished in natural stag hoofs, etc. Louis Schmultz, with 188, took second choice which proved to be three bottles of wine. D. Y. Mellis, with 180, had third choice, and drew a beautiful silver smoking set. John Scott, with 175, captured a fine hardwood smoking set. Henry Dailedouze, with 165, got a beautiful stein; W. H. Siebrecht, with 159, a fine briarwood pipe; Paul Dailedouze, who also made 159, drew a silver-mounted stein; S. S. Butterfield, with 157, a box of cigars; Clemens Wocker, with 133, an ornamented glass flower vase; J. Austin Shaw, with 126, chose a bottle of spirits of frument; Alfred Zeller, with 123, drew a black silk scarf and a beautiful pin cushion in the form of a ballet dancer's best recommendation; George Bennet, with 110, selected a box of cigars; and Alex. Morrison, with a score of 77, a cherry and ivory finished smoking set. The scores made in the two previous games were as under:

D. Y. Mellis.....	169	189
Paul Dailedouze.....	136	98
A. Zeller.....	115	146
W. H. Siebrecht.....	164	145
P. Riley.....	135	157
H. Dailedouze.....	166	149
L. Schmultz.....	141	147
C. Wocker.....	161	
G. Bennett.....	108	76
Alex. Morrison.....	108	97
John Scott.....	132	
J. A. Shaw.....	150	110
S. S. Butterfield.....	117	128

WASHINGTON, D. C.—The florists' bowling team was out in force last Wednesday evening, and put in a good night's work. The following are the scores:

M. C.

THE WEEK'S WORK.

Timme's Timely Teachings.

Stock Plants.

Heliotropes, double petunias, fuchsias, salvias, lemon verbenas, ageratums, stevias, swainsonas, lantanas, acalyphas, flowering begonias, pyrethrums, abutians and several other good things, usually kept over from last year as stock plants and expected to furnish all the material for propagation needed in these lines for the coming season, should now be given a light and sunny place, on a warm bench, and plenty of room to each plant, so that the supply of cuttings produced may be of a fine quality—strong, stout shoots, instead of a lot of spindling, lanky growth. Most of the kinds are only wanted for the production of one or of several crops of cuttings and are then thrown away. These, if yet in their pots, need no transplanting, while those worth keeping and growing into large specimens, after having furnished a number of good cuttings, ought now to be transplanted into new soil and into pots, not necessarily much larger and, in some cases, even smaller than those they were in. A severe pruning down to shapely size, called for in the case of some of these varieties, should also now be done, before the plants start into new growth, as long as this operation does not too greatly lessen the number of cuttings wanted. While a few of the kinds may thus be kept over and grown into stately plants, easily sold in the Spring and often called for, the greater number of them will have to make room for the more vigorous new stock.

The plants, after their rest, must receive a thorough watering once, and after that no more until they start to grow. After all the first new growth has been taken off clean for propagation, as in the case of salvias, coleus, heliotropes, etc., a second crop, nearly as good as the first, may be had by again withholding water until renewed foliage and growth demand it. Over-watering stock plants results in a worthless, sickly growth, really unfit for propagation.

Lantanas, begonias, coleus, heliotropes, salvias as also fuchsias require a rather warm place and will there produce a great number of good cuttings every week or two, while the old clumps of stevia, feverfew and chrysanthemums are content on the coolest end of a bench in a cool greenhouse, where they should receive no more watering than what will just keep them from wholly drying up. These latter need not be propagated until March, or even April; nor is it advisable to root poinsettias, coleus, Impatiens Sultana and achyranthes before that time; but cuttings of most of the others named should now, or soon, go into the sand, if good-sized salable stock is wanted in time for a creditable Spring trade. It is not difficult to work up a fine lot of plants of all the leading sorts; but it is a great trick to have them in their most presentable trim just at the right time.

Plants of poinsettias, unsold or partly cut down, should be stored under a warm bench and kept perfectly dry until April, or later. Those in pots can remain in these until then, while those out of a bench should be placed in boxes with dry earth between and over their roots.

Geraniums.

It is never too early, or too late, for the propagation of the zonal geraniums; nor is there any great danger of ever becoming overstocked in that line. It is here not needful to dwell on the great popularity of the geranium as a bedding plant, or to point out at length the reasons why it is the most useful, and probably most profitable greenhouse plant under cultivation. When judging plants as to their commercial value, the geranium is entitled to a blue ribbon, and the fact that the prices for geraniums have advanced in the last few years certainly deserves honorable mention.

This increase in price has been brought about by a steadily growing demand for exceptionally well grown plants, and by the progressive dealers' anxiety to furnish such stock. To grow extra good four-inch geraniums, which will easily retail at \$1.50 and \$2 a dozen, does not call out a high grade of cultural talent, only demanding a trifle more attention, a little more labor and a great deal more bench room, than is usually accorded the American-grown geranium as an article of commerce. Now, two dollars per dozen for extra good geraniums in four-inch pots may not seem a price unusually high, but it must be remembered, that it is at least double the price realized for the same goods a few years ago, and it must be admitted that the plants can be grown for that with profit to grower and dealer.

If the slipshod grower could only be persuaded to raise only the best varieties, and these only in such numbers as his bench space could accommodate, instead of raising twice and thrice as many, and, by keeping them closely packed and crowded, depriving them of the much needed room, air and light, he would cease to wonder why his more prudent neighbor is able to sell out clean at highly remunerative figures long before his own stock has been half disposed of at prices barely covering expenditure for coal. The public has been educated up to the point where a buyer invariably will rather take a dozen of the high-priced well grown plants, than two dozen of the cheaper but poorer grade, and the plant-buying, better class of people has learned and nowadays perfectly understands that exceptionally fine plants cannot be produced cheaply.

It should, however, be the aim of growers in the bedding-plant line to provide a grade of geraniums, which, while reflecting credit and assuring profit, yet could be offered at a price within reach of that large class of buyers, who, although imbued with a true love for flowers and plants, can only afford to invest a limited amount of their earnings for the embellishment of their homes. Good grown three-inch geraniums will conveniently meet this demand. Sturdy cuttings, taken from old stock plants, or the tops of shortened in young stock, may, to this end, now be placed in sand or at once into two-inch pots, filled with sandy soil. These will soon root, if some bottom heat is given, and by March or April they will be ready for the three-inch pots. A timely pinching, just once, before they go into the three-inch pots, will make them nice, bushy plants, with two, three or four flowering shoots, and certainly better material for bedding in May or June than the scraggy, scrubby and dejected looking four-inch "Queen of the West" offered by the enterprising street hawker at 60c. or 75c. per dozen and mostly let go for 50c. I try to have several sizes in geraniums

now all the year around and experience no difficulty in disposing of all at fair figures, and, therefore, I say, it is never too early or too late for the rooting of good cuttings, or the shifting of those plants that require it. Well balanced five and six-inch plants, studded with bud and bloom, never fail to attract buyers at any time of the year, if the grower take some pains in selecting varieties especially suitable for this purpose. The more unshapely of these sizes come very handy in the filling of large boxes and vases. Such plants have given me two or three crops of fine cuttings before they are allowed to bloom. Thus I keep the rank growth in check, and give them shape and form. In a month or two after that these plants will flower profusely, and will continue to do so for any length of time.

The stock, propagated last Fall, should now be in three-inch pots. If still in the two-inch pots, the work of repotting them, clearing, pinching and resetting should not be delayed any longer, if it is expected to have a prime lot of market plants in May or June. The graduate from the new school of plant industry, who practices the long shift from the two-inch to the four-inch pot, should at least go over his small plants from time to time, remove a few from where they are most crowded, stop the single-stemmed and provide all the light possible, to assure an all-around good break and healthy foliage.

Any good and somewhat heavy soil will do for geraniums, and in the matter of watering a good allowance is needful when they are in full vigor and bloom; while some care should be exercised during the Winter months, so as not to over-water. Of more importance is solid planting; the soil should be well firm around the plants in potting and repotting. The most weighty point, however, in geranium culture is the one most overlooked and least heeded—the full exposure of the plants to light and sunshine. This and a most liberal supply of fresh air, whenever it can be given, are the most telling factors in maintaining the health of the plants, in making them break evenly, after being stopped, and in imparting substance and brilliancy to the flowers.

Begonias.

BEGONIA VERNON is a poor affair, if grown from cuttings, but one of our best dwarf bedding-plants, when grown from seeds. All the varieties of this charming begonia are good and easily worked up to salable plants by May or June. Sow the seeds now.

REX BEGONIAS are best propagated in the middle of Winter; in fact, can only be propagated to advantage at this time. Take well-ripened, but sound, healthy leaves, hack with a sharp knife the midrib and the strong side-ribs, inflicting cuts about one-third through and half an inch or so apart; then lay the leaves, face up, on the sand of a pretty warm propagating bed, weighting them down with a little sand here and there. Or the leaves may be cut into four or more pieces and these placed on the sand. In either case, a number of little plants will soon break through the surface of the old leaf. These plantlets are then lifted, freed of the old leaf remnants, potted up and kept growing in the warmest place of the house. By the end of May these plants should be bright, nice salable stock in four-inch pots. Rex begonias, by right, require to be grown in a house by themselves, and where they are raised in large numbers,

a separate and well-heated house should be given over to the culture of this interesting and, of late, greatly improved class of plants. They do not care to live in a house frequently ventilated and seem not to be especially fond of fresh air. Certain it is, that in a close atmosphere they thrive best, and there their greatest charm—the coloring of their leaves—becomes most pronounced and intense. They also call out the cultivator's skill and special care in the matter of watering. Very little, but regularly applied, is wanted, to keep these plants in vigor and good shape, and even, when at their best, but little water should be given them at a time. Allowing them plenty of room and a great amount of drainage material in their pots, will make the work of watering and caring for a lot of rex begonias less time-consuming and less irksome.

FLOWERING BEGONIAS, of the common, well known varieties, can now be propagated, whenever from a vigorous new growth cuttings can be had. Some of the numerous new forms and types, recently introduced, are most beautiful and worthy of trial.

BEGONIA GLOIRE DE LORRAINE, the far-famed beauty, will now be nearing the end of its glory for this season. Pinch off the dead and dying blooms, and remove the plants to a light bench in a house, holding about 50 degrees of heat. Here they remain until May, when the new growth from the root-crown offers material for propagation.

FRED W. TIMME.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

FORT COLLINS, COL.—Mrs. E. B. Davis has sold the Pansy place greenhouses to Mr. Hannawalt, of Denver, who has taken possession of same. Mr. Hannawalt was for some years in the employ of the Colfax Avenue Florist Company, Denver.

ELMIRA, N. Y.—Fred S. La France has purchased the business of Thomas J. Leyden, at 117 West Water street, and will conduct this store in connection with his own greenhouses on Miller street. Mr. La France contemplates increasing his greenhouse capacity.

A. H. Hews & Co. (Inc.) Entertains Employees.

Still another evidence of the thoughtfulness for the welfare and pleasure of the employees of A. H. Hews & Co., Incorporated, of Cambridge, Mass., and the peculiarly family-like bond of co-operate interest existing between employers and employed at this establishment, the largest of its kind in the country, if not in the world, was shown at the banquet and entertainment given to the employees Saturday evening, January 14, by Mrs. Albert H. Hews, widow of the former owner, in commemoration of Mr. Hews' birthday.

The banquet room, with the wives and children of the one hundred and thirty attending, presented in appearance a huge family gathering, perfectly at home, one with the other, and this spirit was augmented by the excellently performed volunteer service as waitresses of the wives of the officers of the corporation, and the ladies of the office.

At the close of the banquet the gathering was addressed by George H. McKee, president, and Philip Cabot, treasurer of the present corporation, the latter speaking directly for Mrs. Hews, who was unable to be present, and expressing her deep desire to continue that interest always maintained by Mr. Hews in the employees, individually and collectively, many of whom have been continuously in the service for over a generation, and who by their competent and faithful service in their respective positions had been of such material assistance to him in building to its present magnitude the establishment which to-day stands as a monument to his honorable dealings with all men and to his business ability.

The remarks of the speakers were followed by a two hours' musical and humorous entertainment given by excellent talent.

It is worthy of note here that, contrary to the usual policy in such instances, no changes have been made in the personnel of the employes by the incorporation of this business, except, of course, the addition of new hands in the different departments to care for the rapidly increasing demands of the trade.

"THERE IS ONLY ONE"

The Fumigating Kind Tobacco Powder

What a Few Say, All That Use It Say

MAMARONECK, N. Y.
I tried the 5-lb. trial package of The Fumigating Kind Tobacco Powder in two of my houses one night, and the following night I gave a 60-foot house a thorough smoking. Result, I would like you to send me 100 lbs. of the Fumigating Kind.

W. H. DANIELS.

KANSAS CITY.
We consider The Fumigating Kind Tobacco Powder good; it is cheap and effective. We have with 25 cents worth of your Fumigating Kind Tobacco Powder smoked as much space and done the work as well as some other kinds of Fumigating that cost us \$2.50 for same space; and the Black Stuff Fine for sprinkling is all right too; gets them every time. Send us another 1000 lbs. of The Fumigating Kind Tobacco Powder.

ROBT. S. BROWN & SON.

KANSAS CITY, MO.
I have used The Fumigating Kind Tobacco Powder now for two years, and find it the best and cheapest article on the market to kill Thrip and Green Fly. I would not be without it.

A. F. BARRE.

TAMAQUA, PA.
Until three years ago I was always hunting for something better to kill the green fly, with out injury to bloom and foliage. Then I started to use The Fumigating Kind Tobacco Powder. I have used it ever since; it is good enough for me.

NELS NELSEN.



FREE trial five-pound bag will cost you nothing more than the express charges on it. The trial bag will prove our assertion that it is the most effective, cleanest and quickest, as well as the cheapest (10 cents per 100-foot house) article to fumigate with. All aphids killed in one night—our booklet tells of it; we mail one on request.

THE H. A. SMOOTHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York

READY NOW Strong, Healthy Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
LAWSON	\$2 00	\$15 00	ADONIS	\$3 50	\$30 00
WOLCOTT	2 00	15 00	BOSTON MARKET	2 00	15 00
ESTELLE	2 25	16 00	NELSON FISHER	6 00	50 00
GLACIER	1 75	12 50	LADY BOUNTIFUL	6 00	50 00
PROSPERITY	2 00	15 00	MRS. PATTEN	6 00	50 00
ENCHANTRESS	3 00	25 00	MACKINAC	5 00	40 00
			BRIDE	5 00	40 00

The Richmond Rose

THE NEVER-FAILING RED

Own Root Stock, \$30.00 per 100; Grafted Stock, \$35.00 per 100

ROSALIND ORR ENGLISH DEEP PINK FORCING ROSE

\$25.00 per 100, Own Root; \$30.00 per 100, Grafted.

Cardinal Carnation

Commercial Scarlet; Splendid Cuttings, \$12.00 per 100; \$100.00 per 1000.

ALL THE NEW 'MUMS OF THE YEAR. Write for prices.

The E. G. Hill Co., Richmond, Indiana

Mention the Florists' Exchange when writing.

GERANIUMS

Nutt, Vland, Buchner, Ricard, Perkins, Doyle and Poitevine, 2-in pots, \$2.00 per 100, \$20.00 per 1000.
 Vinca Variegated, 3-in pots, \$4.00 per 100.
 Rooted cuttings, as follows: Salvia, Vinca Var., Sweet Alyssum and Heliotropes, \$1.00 per 100.
 Fuchsias, \$1.25 per 100.
 Coleus and Ageratum, 80c. per 100.
 Cash with order.

ERNEST HARRIS, - DELANSON, N. Y.
 Mention the Florists' Exchange when writing.

PANSY PLANTS

Large flowering \$2.50 per 1000 \$0.60 per 100
 300 Pelargoniums, mixed 2 in. pot. 2.50
 Asparagus Plumosus Nannus, small plants 1.75
 Geraniums, 10 Vars, 2 and 2 1/2 in. pot. 2.50
 Alternantheras, red and yellow, March 1 2.00
 Asparagus Plumosus Nannus Seed, February, \$5.00 per 1000.75
 Coleus, 10 Vars, 2 in. pots, March 1. 2.00
 Cash

JOS. H. CUNNINGHAM, Delaware, Ohio
 Mention the Florists' Exchange when writing.

ROSES

Bridesmaid, 3 in., \$3.00 per 100.
 Carnations, Ethel Crocker, 2 in., \$2.00 per 100.
 Rex Begonia, in variety, 3 in., \$4.00 per 100.
 Good value guaranteed.

PAUL O. TAUER, Lebanon, Ind.
 Mention the Florists' Exchange when writing.

"MY MARYLAND"

The largest, most productive and most profitable
WHITE CARNATION
 yet raised. Will be disseminated in 1906. Write us about it. Also for other new and standard carnations.
Chrysanthemum Stock Plants

Each Doz.	\$0.35	\$3.00
Dr. Enguehard	\$0.35	\$3.00
White Mrs. J. R.		
Trantor	.35	3.00
American Beauty	.35	3.00
S. T. Wright	.50	5.00
Uncle John	.35	3.00
Rockford	.25	3.00
Mrs. Probin	.35	
Mrs. Newell	.35	

H. WEBER & SONS, Oakland, Md.
 Mention the Florists' Exchange when writing.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	GRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories NATICK, MASS.

JOHN N. MAY, Summit, N. J.

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CARNATIONS ROOTED CUTTINGS

ALL IN FINE CONDITION, WELL ROOTED

Pink		Red	
100	1000	100	1000
Mrs. T. W. Lawson	\$1.50 \$12.50	Estelle	\$1.50 \$12.50
Guardian Angel	1.00 9.00	Chicago	2.00 15.00
		Adonis	2.50 20.00
		White	
Enchantress	3.00 25.00	Flora Hill	1.00 9.00
Morning Glory	1.50 12.50	White Cloud	1.25 10.00
Mrs. Higinbotham	1.25 10.00	Her Majesty	1.50 12.50
		Crimson	
		Harlowarden	1.50 12.50

WIETOR BROS., 51-53 Wabash Ave., Chicago, Ill.

Mention the Florists' Exchange when writing.

J. K. ALLEN
 Wholesale Commission Dealer in Cut Flowers
 Telephone, 106 W. 28 St., NEW YORK
 Open at 187 Mad. Sq. 8 A. M.
 Consignments Solicited.
 Prompt Payments.
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CUT FLOWER EXCHANGE
 Sixth Ave. and 26th St.
 Coogan Building NEW YORK
 Open every Morning at Six o'clock for the Sale of Cut Flowers
 Wall Space for advertising purposes to Rent
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GROWERS, ATTENTION!
 Always ready to receive Fine Stock
WILLIAM H. GUNTHER
 30 West 29th Street
 Phone, 651 MADISON SQ. NEW YORK
 Violets, Roses, Carnations, Orchids
 ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION
"VICTORY"
 To be disseminated 1906. Also a complete line of choicest flowers.
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CUT FLOWERS
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HICKS & CRAWBUCK
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 And Dealers in FLORISTS' SUPPLIES
 108 Livingston Street
 Phone, 3660-3661 Main BROOKLYN, N. Y.

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 53 WEST 30th STREET
 NEW YORK
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All Choice Cut Flowers in Season
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 Telephone 3924 Madison Square.
 ESTABLISHED 1891 BUY FROM SHIP TO ME TRY
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 WHOLESALE FLORISTS
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 Receivers and Shippers of CUT FLOWERS.
 Consignments solicited. Prompt settlements
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JAMES McMANUS Telephone 759
 50 W. 30th St., New York
 Beauties, Meteors, Brides and Bridesmaids are the leaders.
 THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
ORCHIDS A SPECIALTY.
 HEADQUARTERS FOR NOVELTIES

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 Wholesale Florists
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 SPECIALTIES - Violets, Carnations and Roses
 Shipping orders receive prompt attention. Consignments Solicited.
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TRAENDLY & SCHENCK
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 WHOLESALE FLORISTS
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CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS
 and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY
 WHOLESALE COMMISSION FLORIST
 Receiver and Shipper of all varieties of Cut Flowers
 Telephone: { 2200 Madison Square 57 West 28th Street, NEW YORK
 { 2201 Madison Square

Wholesale Prices of Cut Flowers, New York, January 20, 1905.
 Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy-special	30.00 to 50.00	Intr grades, all colors.....	.75 to 1.50
	extra	20.00 to 30.00	STANDARD VARIETIES	White..... 1.50 to 3.00
	No. 1	15.00 to 20.00		Pink..... 1.50 to 3.00
	No. 2	6.00 to 8.00		Red..... 1.50 to 3.00
	No. 3	3.00 to 4.00		Yel. & Var. 1.50 to 3.00
	Bride, "Maid, fancy-spc'l	12.00 to 15.00	*FANCY—	White..... 3.00 to 4.00
	extra	8.00 to 10.00	(The highest grades of standard var.)	Pink..... 3.00 to 4.00
	No. 1	4.00 to 6.00		Red..... 3.00 to 4.00
	No. 2	3.00 to 4.00	NOVELTIES.....	Yel. & Var. 3.00 to 4.00
	Golden Gate.....	3.00 to 15.00		6.00 to 8.00
	Liberty.....	5.00 to 50.00	LILIES.....	10.00 to 12.00
	Meteor.....	3.00 to 8.00	LILY OF THE VALLEY.....	1.50 to 3.00
	Mrs. Abel Chatenay.....	2.00 to 10.00	MIGNONETTE, ordinary	2.00 to 4.00
	ADIANTUM.....	.50 to .75	fancy.....	6.00 to 10.00
	CROWANUM.....	.50 to 1.50	NARCISSES, Paper White.....	1.00 to 2.00
	ASPARAGUS.....	25.00 to 50.00	Golden Spur.....	3.00 to 5.00
	Sprengeri, bunches	15.00 to 35.00	Ordinary Yellow.....	2.00 to 3.00
	CALLAS.....	10.00 to 12.00	PANSIES, per dozen bunches.....	.25
	CATTLEYS.....	25.00 to 50.00	ROMAN HYACINTHS.....	1.60 to 1.50
	CYPRIPEDIUM.....	6.00 to 12.00	SMILAX.....	10.00 to 12.00
	DAIRES.....	.50 to 1.00	STOCKS, per bunch.....	.05 to .10
	FREESIAs, per bunch.....	.25	TULIPS.....	1.00 to 2.00
	LILAC, per bunch.....	.50 to 1.00	VIOLETS.....	.35 to .40
			specials.....	.60 to .75

WALTER F. SHERIDAN
 Wholesale Florist
 Telephone, 902 Madison Square
 39 WEST 28TH ST., NEW YORK
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
 American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
 Telephone, 1998 Madison Square
JOHN I. RAYNOR, 49 West 28th St., NEW YORK

We have a fine grade of everything in market at present.
 Send us a Trial Order and we will do the rest.
EDW. C. HORAN
 55 West 28th Street
 Telephone, 421 Madison Square
NEW YORK
 CUT FLOWERS AT WHOLESALE
 Mention the Florists' Exchange when writing.
 Receiving Daily Fine PRES. CARNOT KAISERINS METEORS BEAUTIES Etc.

Boston.
News Notes.
 In my notes of last week read that those going from Boston to the Carnation Society's convention in Chicago will go on the certificate plan, fare for the round trip \$27.50 and not \$2.50 which a typographical error made it.

Galvin had five large decorations on Wednesday, including the Metzler-Phillips wedding at the Hotel Somerset, and the Taunton-Hemingway wedding on Beacon street.
 Some of the finest Bride and Bridesmaid roses seen in Boston this Winter are coming from the Newtonville avenue greenhouses.
 Henry M. Robinson & Co. are handling large quantities of Southern wild smilax and have just received a fresh shipment.

William Sim, of Cliftondale, lost a shipment of some fifteen hundred violet blooms the other day by their being misplaced at the depot on their arrival in Boston and the severe freezing weather had them destroyed when they were located.

A unique table decoration was gotten up on Tuesday for the Merchants' Club dinner at the Algonquin. The subject of the evening was the tropics; and Macmullin, who had the matter in hand, made the decorations accordingly, using only tropical plants and fruits for the purpose.

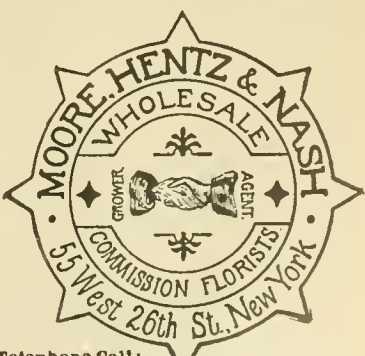
Visitors this week included Frank Hamilton, Queens, N. Y., and Alex J. Guttman, New York.
 J. W. DUNCAN.

Worcester, Mass.
 On January 1 H. H. Cook, of Shrewsbury, Mass., entered into a partnership with his son, Maurice. The business will be carried on under the firm name of H. H. Cook & Son. They have about 25,000 feet of glass devoted entirely to carnations with the exception of a small violet house. Boston is their principal market.

The second Winter meeting of the Horticultural Society was well attended. Miss Fannie C. Morse, of Worcester, lectured on a "Trip to the Far East."
 CAROLUS.

Cromwell, Conn.
 C. Loechner, representing the firm of Suzuki and Iida, of New York, was here this week.
 The grafting house is a busy place these days at A. N. Pierson's. About 100,000 manetti is being used up as rapidly as possible and converted into Bride, Bridesmaid, Killarney, Mme. Abel Chatenay and other choice varieties. The young stock is looking remarkably well.

GREENWICH, CONN.—Alexander Mead, of the firm of Alexander Mead & Son, who has been a great sufferer from nervous asthma for the past year, has been very low since New Year's. He is now slowly improving, although still confined to his room.



Telephone Call: 756 Madison Sq.
 Mention the Florists' Exchange when writing
THE AMERICAN CARNATION
 Price, \$3.50
A. T. DELAMARE PTG & PUB. CO. LTD.
 2 to 8 Duane St., N. Y.

CUT TULIPS AND NOVELTIES PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

Mention the Florists' Exchange when writing.

CARNATIONS

In Any Quantity. No better stock coming to this market

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THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A. M. to 8 P. M. 1217 Arch St., Philadelphia, Pa

R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses. Fancy Echantress, Lawson and Prosperity Carnations.

STORE OPEN 7.30 A. M. to 8.00 P. M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

"GARDENIAS AND WHITE LILAC"

SAMUEL S. PENNOCK THE Wholesale Florist of Philadelphia

Mention the Florists' Exchange when writing.

White Lilac, Gardenias, Orange Blossoms, Daffodils and other SPRING FLOWERS

Philadelphia Wholesale Flower Market 1235-37 Filbert Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

BERGER BROS. WHOLESALE FLORISTS

1220 Filbert Street, PHILADELPHIA

Wm. J. BAKER Wholesale Florist

1432 S. Penn Square, PHILADELPHIA, PA. Seasonable Cut Flowers Fine Quality

EDWARD REID Wholesale Florist

1526 Ranstead Street, PHILADELPHIA

Cincinnati.

On January 24 the Cincinnati contingent will leave here for Chicago. Last week I stated they would travel via C. H. & D.; this week it is the Big Four, so visitors out of the city, who will pass through Cincinnati, had better see me before making arrangements.

Kalamazoo, Mich.

Trade conditions since New Year's have not held up to expectations and are reported poor all round. Stormy weather all week has not helped matters either, and prices, like business, have sagged.

At the annual meeting of the stockholders of the Central Nursery Company the old board of directors was re-elected, and the management therefore remains as heretofore.

DUMONT & CO. Wholesale Florists

Carnations a Specialty No. 1305 Filbert St., Philadelphia

J. B. MURDOCH & CO. Wholesale Florists

FLORISTS' SUPPLIES 545 Liberty St., PITTSBURG, PA.

WM. J. MOORE Wholesale Florist

1235-37 FILBERT STREET PHILADELPHIA, PA.

Worcester Conservatories

CUT FLOWERS

WORCESTER, MASS.

Headquarters in Western New York

For ROSES, CARNATIONS

WM. F. KASTING Wholesale Commission Florist

383-87 Ellicott St. BUFFALO, N. Y.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Boston, Philadelphia, Baltimore, Buffalo, and Pittsburg. Lists various flower types and their prices per 100.

BOSTON, MASS.

Asparagus Plumosus Mignonette Chrysanthemums Lily Harrisii Brides, 'Maid's American Beauties

WELCH BROS. PROPRIETORS

CITY HALL CUT FLOWER MARKET 15 PROVINCE ST.—9 CHAPMAN PL.

Kaiserlins Violets Carnofo Orchids Valley Carnations

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

EUGENE BERNHEIMER FOR PROMPT DELIVERY ON

Carnations, Roses, Valley 11 South 16th Street, PHILADELPHIA

Chicago.

The Week's News. A Dietsch Co. have found it necessary to add a new building to their factory, to enable them to take proper care of their increasing trade.

C. J. Strombach has been dangerously ill with pneumonia; at one time his life was despaired of. At last report he is convalescing nicely.

George W. Wienhoeber is confined to his bed with stomach trouble; his many friends in the trade hope for a speedy recovery.

Emil Buettner, of Park Ridge, is sending in white lilac of exceptionally good quality to the A. L. Randall Co.; it is wholesaling at \$1.50 per bunch.

Wietor Bros. are cutting Enchantress carnations of extra quality from plants in solid beds.

Peter Reinberg is in with a heavy cut of American Beauty roses.

John Degnan, of the E. F. Winterson Co., was on the sick list the latter part of last week.

P. J. Hauswirth had a very busy week, having considerable work for banquets given in the Auditorium Hotel.

C. W. McKellar has enlarged his office space.

The George Wittbold Co. had the decorations for the annual Charity Ball at the Auditorium last week.

Real estate transfers of the past week record the transfer of 80 acres on the southwest corner of California and Peterson avenues by Mrs. Mary A. Peterson to W. A. Peterson, for \$120,000, his being a part of the Peterson nurseries.

J. D. Thompson was in town last week with a fine lot of blooms of carnation Robert Craig, displaying them or the benefit of prospective buyers of cuttings. Orders for many thousands of these have already been booked.

The Lincoln Park greenhouses have added to their already large collection of orchids.

Visitors in town: W. Heckenpamp, Quincy, Ill.; H. M. Altick, Dayton, O. ROBERT JOHNSTONE.

Portland, Oregon.

The writer spent part of a day in the nud, which is a part of the building of all expositions, in quest of a few andscape gardening, no distinct denotes of interest to Florists' Exchange leaders regarding the Lewis & Clark Exposition. It is very improbable that any effective work is to be accomplished in ornamental horticulture or artment being at present organized for other branch. Henry E. Dosch, director of exhibits, a well-known horticulturist, and author of "Horticulture in Oregon," when called upon, was very enthusiastic, but there is a decided lack of interest on the part of local florists, who complain of the action of the directors in omitting the time-honored custom of giving the home craft "a fair how." A call on Director of Works Eskar Huber elicited the statement we'll grow cabbages, etc., and give hem away to visitors. The landscape work is virtually completed. It is to be regretted that, thus far, no preparation has been made to adequately represent the trade to visitors, except by abbage heads, etc.

Despite the dark days which are experienced here for several Winter months, some extra fine roses and carnations are seen in the stores of Clarke Bros., Martin & Forbes and Pfunder. iolets from California are a staple article just now, but from the extent of growers' establishments the home product is handled wholly later on. rices range well on all lines of first-class stock and the fakir is unknown. ortland is truly the "Rose city," judging by the number planted outside, though much more beauty could be attained by better cultivation. J. H.

Pittsburg.

The Week's News. The Botanical Society of Western Pennsylvania had an interesting meeting last week. The various growths and habits of cacti were discussed and exhibited to those present. President

Falconer explained the habits of the cacti indigenous to the temperate zone. Mrs. Burbank showed specimens from the alkali deserts of the southwest. Specimens used for food by native Mexicans were described by Mrs. A. Nichols, of Laredo, Tex.; and a rare specimen grown at Oneco, near Tampa, Fla., was shown by E. A. Reasoner.

If anyone is going to Chicago, to the Carnation Society's meeting, he should notify Mr. Langhans, who is trying to get the party together; but do so at once as the members may leave a day earlier and stop at Richmond, Ind., to see the new roses at the Hill place. How many are going is uncertain, but there will be a few, from present indications.

W. Edlefson, Milwaukee, spent several weeks here on a visit to his daughter, J. Walker, of Youngstown, O.; J. Murchie, of Sharon, Pa., visited some of the places around the city; and A. J. Rickarts, representing Stump & Walter Co., of New York, was also looking up the trade.

E. C. REINEMAN.

Syracuse, N. Y.

Trade News.

Trade has been very dull here, but the rush of funeral work the past week has helped out very materially. These orders seemed to be about evenly divided. One especially beautiful wreath made by Manager Robertson, of P. R. Quinlan & Co., is worthy of mention. It was 30 inches in diameter and made of Liberty roses, lily of the valley with adiantum, combined with the new peris fern originated at their greenhouses something more than a year ago. This fern has very narrow graceful fronds beautifully crested at the tips of segments, of fine substance and altogether a very desirable acquisition that doubtless will be quickly taken up when disseminated.

Henry Morris had a tastefully arranged window the past week that attracted a good deal of attention—a bank of very nicely grown cyclamen backed by vases of carnations in variety. Carnations are by far the best selling flower at present; one florist disposed of 2,000 blooms on Saturday. Some very fine tulips are now to be seen in the stores. Prices of cut flowers remain the same. J. B. B. J. B.

ST. PETERSBURG, FLA.—The St. Petersburg Midwinter fair opened January 16, and will continue until February 15. The object of this fair, of a local character, is to show especially what is being done in the way of fruit, vegetable, nursery stock and plant growing, together with manufactured articles in wood, shell work, and ladies' fancy work, and exhibitions of work performed by the pupils of the public school, etc. The admission is free, except evenings, when there is a musical entertainment, when a fee of 10 cents is charged, to help pay expenses. H. A. C.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

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Samples free. For sale by dealers.

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WEATHERPROOF. Corner Lock Style

The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always.

Table with 2 columns: Size No. and Price per 100. Includes sizes like 3x4x20, 4x4x20, etc.

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A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main.

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The Largest, Best Equipped, Most Centrally Located :

Successor to Illinois Cut Flower Co.

Wholesale Cut-Flower House Wholesale Cut Flowers In Chicago Consignments Solicited. 32, 34, 36 Randolph St., CHICAGO, ILL. 51 and 53 Wabash Avenue, CHICAGO

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Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Large table with columns: Names and Varieties, Chicago Jan. 17, '05, St. Louis Jan. 16, '05, Cincinnati Jan. 17, '05, Milwaukee Jan. 9, '05, Toronto. Lists various flower types and prices.

FLOWER GROWERS' MARKET

60 WABASH AVE., CHICAGO

Sell Your Stock There

See PERCY JONES, Manager

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Wholesale Florists Florists' Supplies

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THE WHILLDIN POTTERY COMPANY

Travelling Representative: PHILADELPHIA, PA., JERSEY CITY, N. J.
 U. CUTLER RYERSON, 108 Third Ave., Newark, N. J. LONG ISLAND CITY, N. Y.
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For GREENHOUSES, GRAPERIES, HOTBEDS, CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.

N. COWEN'S SON, 592-94 W. New York Broadway, New York
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Evans Improved Challenge

Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

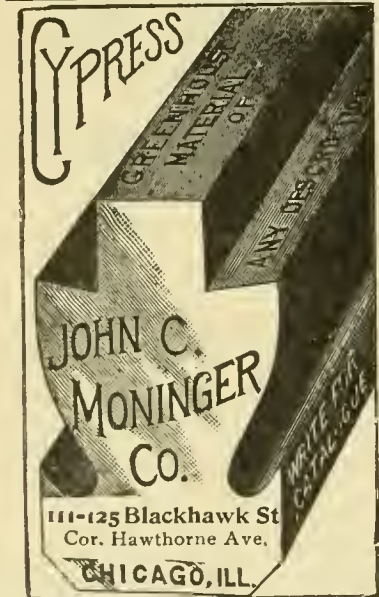
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Pulverized. Free from all Adulteration In Bags, \$18.00 per Ton
 Special price on car load lots in bulk

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Clean and fresh shipment, direct from the swamp. 5 barrel bales, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00.

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CEMENT BENCHES

NIAGARA CEMENT & CONCRETE CO.
 NORTH TONAWANDA, N. Y.

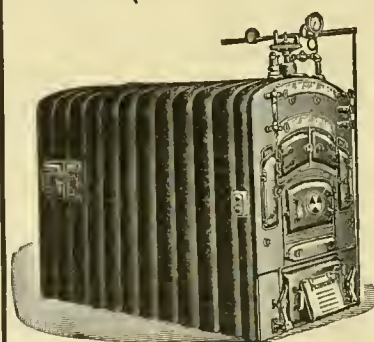
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and GREENHOUSE PUTTY a Specialty.
 C. S. WEBER & CO.
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 That's what prominent Florists say of the celebrated

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Particularly well adapted for GREENHOUSE HEATING
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That is from the

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CHICAGO
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 We also make Hot-bed sash.
 Illustrated catalogue sent free!

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Baltimore.

News Items.
 At the last meeting of the Gardeners' Club it was decided to have a carnation show, Monday, February 27, at the Royal Arcanum building, free to the public. There will doubtless be a fine exhibition, as carnations are now beginning to come in of good quality. Lehr Bros. have Genevieve Lord and Enchantress very fine. C. Akehurst & Son also have them very good. Mrs. Lawson are coming in with better flowers, but the stems of most of them are a little short.

A number of the craft will leave here Saturday to visit the Messrs. Weher & Sons, at Oakland, Md. An enjoyable trip is anticipated. A number of the carnation men are anxious to see the new variety My Maryland growing.

We are now having very good weather—plenty of sunshine—which will doubtless improve cut stock. Having had such a long spell of dark weather, something like ten days of sunshine in more than six weeks, had caused many bursted carnations and short, weak-stemmed roses. Violets are now coming in a little more plentifully and of better quality. Good American Beauty roses is about the scarcest thing here now. Monday, stock of all kinds was very short; but to-day (Wednesday) there is a good supply with a demand for nearly all the good stock.
 JOHN J. PERRY.

St. Louis.

News Notes.
 E. H. Michel, E. G. Eggeling, Jr., William Winter and F. W. Ude, Jr., have issued a circular calling on growers to attend a meeting at Louisiana Hall on Thursday night, January 19, for the purpose of organizing a Growers' Club; and it is understood by the circular that none but growers need attend. Retailers and wholesalers are not wanted as members of this club. This opposition will hardly hurt the old club any.

Visitors recently were J. O'Neil, representing Vanghan's Seed Store, of Chicago; Charles F. Meyer, and Joe Rölker, of New York. All report a splendid business in their line.

Frank M. Ellis, who in company with John Burk was on a hunting trip in the Ozark Mountains the past week, has returned with plenty of game of all kinds.

John Hanzel makes a very pretty display in his new store, which he recently opened on Taylor avenue, near Olive street. He was formerly with Alex Waldbart. ST. PATRICK.

National Florists' Board of Trade

NEW MANAGEMENT. Tol Call, 655 John. HARRIS H. HAYDEN (Late Manager of the Nepers Chemical Company), President EDWARD MCK. WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer
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A large lot of large sized

"Latania Borbonica"

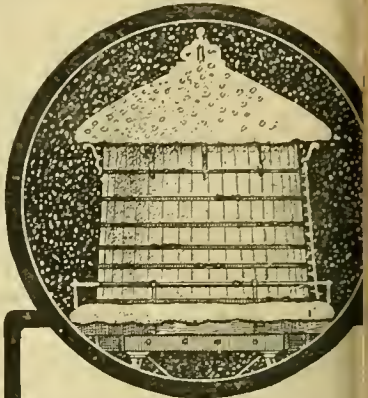
Leaves from the Philippine Islands for sale at one quarter of cost. These will make beautiful decorations, as well as leaves for large plants.
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Orchid Peat

FOR IMMEDIATE DELIVERY.
 Special price on Rotted Peat for one month. Write at once.
 G. W. BROWNELL & CO., Walden, N. Y. Orange Co., N. Y.
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WM. DILGER, Manager
 FANCY FERNS, \$1.50 per 1000.
 BAGGER FERNS, \$1.50 per 1000.
 38-40 Miami Ave., Detroit, Mich.
 Mention the Florists' Exchange when writing.



Absolutely Safe and Reliable. Ask your friends.
 Why wait on fickle showers? With a CALDWELL TANK and TOWER you can store water and use it at the exact moment to bring the best results for your early plants.
 Our catalogue tells you what such a plant will cost.
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STANDARD FLOWER POT

Packed in small crates, easy to handle.

Price per crate	Price per cr
1500 2 in. pots in crate, \$4.88	12 7 in. pots in crate, \$4
1500 2 1/2 " " " 5.25	9 8 " " " 3
1500 3 " " " 5.00	48 9 in. pots in crate, \$4
1000 3 1/2 " " " 5.80	24 11 " " " 3
500 4 " " " 4.50	24 12 " " " 4
250 5 " " " 4.50	12 14 " " " 4
144 6 " " " 3.16	6 16 " " " 4

Seed pans, same price as pots. Send for price of cylinders for Cut Flowers, Hanging Baskets, La Vases, etc. Ten per cent. off for cash with order.
HILFINGER BROS., Pottery, Fort Edward, N. Y.
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Our New Construction Sheet Mailed on Application. Plans and Estimates Freely Furnished on Request.

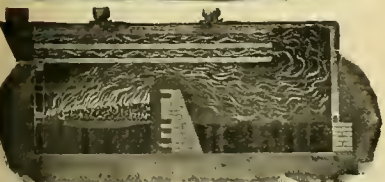
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MASTICA
 FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
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 IMPROVED
Greenhouse Boiler
 33 ERIE ST., CHICAGO

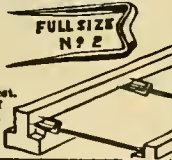


Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.
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 BY USING
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 One cent gets our Catalogue

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Holds Glass Firmly
 See the Point at FULL SIZE N.P.E.
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 Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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 IF THE HOUSE GETS COLD
 Keeps tab on the Night Man.
Electrical Thermostat Alarms
 Send \$2.25 for sample. With batteries and bell, \$3.50.

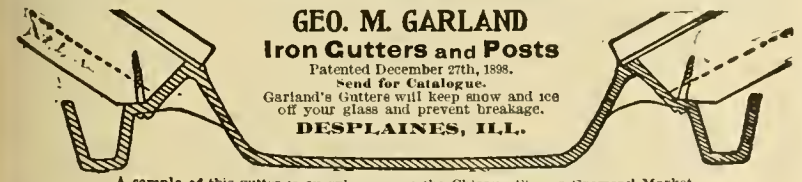
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 No. 24 The Meridian
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The Standard Ventilating Machinery
 The original machine with self-closing cups; the most powerful, least complicated, very compact, with ease of operation.
 The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market.
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 Send for Catalogue.
 Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.
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 Before signing your heating contract get my figures using the well-known Furman Sectional Boiler. Plans and Estimates furnished.
 Competent Greenhouse Mechanics to install your heating or repair work.
 Fittings, Valve, Tanks, Ventilating Apparatus, Iron Purlins, etc., etc.
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 Telephone 174 J. Bergeon.
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Hot-Bed Sash and Frames FOR GROWING VEGETABLES, VIOLETS, ETC.
 OUR SASH ARE STRONG AND DURABLE, CONSTRUCTED OF RED GULF CYPRESS
 "The Best is the Cheapest." An Iron Rod is run through the center of all the Sash Bars, tying the Sash and giving support to the Bars. All joints are white leaded and are held with steel dowel pins.



Greenhouse Material, "Special Putty and Greenhouse Glass" always carried in stock
 Catalogues of Greenhouse Construction, Heating and Ventilating will be mailed on request. Address New York office.

Write to-day for price list of Hot Beds'
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GREENHOUSE GLASS
 A SPECIALTY
 Window Glass. Painters' Supplies.
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 Before giving out your contract get figures from me. I can save you money. Iron or wood construction Hot Bed Sash.
 TELEPHONE, 662L-Orange.



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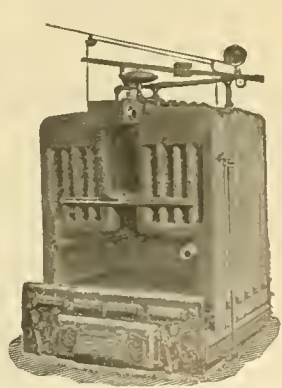
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CYPRESS SASH BARS
 UP TO 32 FEET OR LONGER.
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 Send for Prices and Catalogue

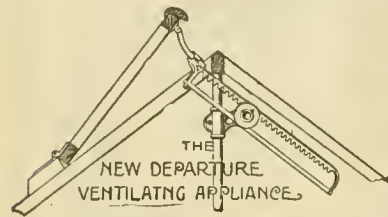
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ASPARAGUS SPRENGERI, strong, 3 in., 750 per doz.; \$5.00 per 100.
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STANDARD SIZE

Quality—No Better.

Carefully packed in Small Crates. Easy to handle. Price List Free.

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Best Pot in the Market

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EUREKA GREENHOUSES

Send for catalogue Get the best Greenhouse Material, Composition Posts
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

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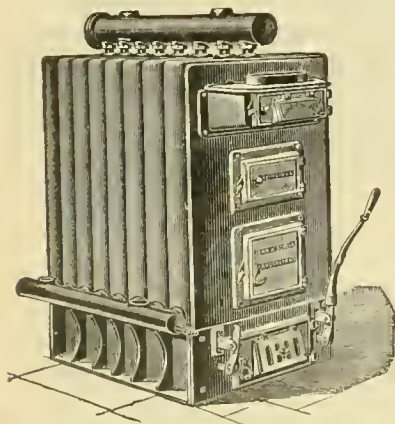
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Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.

Horticultural building of every description.

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72-74 Myrtle Ave., Borough of Brooklyn
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Established 42 Years

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Green Fly



Mr. J. A. Budlong, Chicago, March 11, 1904, says:

"We have been using Nicotilde on our whole place now for some time and find it the most satisfactory fumigant we have ever used. We heat entirely by steam, and paint it on the pipes when hot. This application works well and is certainly very effectual."

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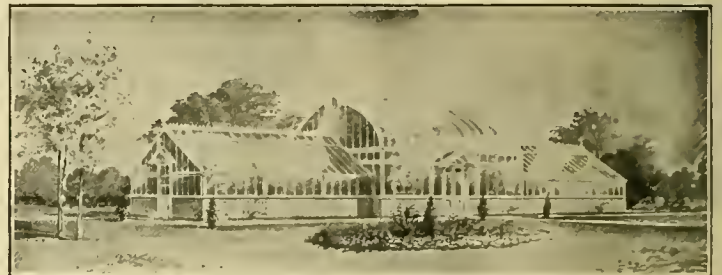
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Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.

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Galvanized Steel Patent U Bar Greenhouses
Flat Rafter Iron Framed Greenhouses
First-class Low-priced Cypress Greenhouses

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PIPE, FITTINGS and VALVES for Greenhouse Heating
VENTILATING APPARATUS, Self-Locking, Self-Oiling
Hot Bed Sash, Benches, Special Hand-made Putty

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TILE DRAINED LAND IS MORE PRODUCTIVE Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. JOHN B. JACKSON, 50 Third Ave., Albany, N. Y.

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Greenhouse Material



Hot Bed Sash

of Louisiana Cypress and

Washington Red Cedar

OUR FACILITIES INCREASED

OUR PRICES RIGHT

OUR GRADES INVARIABLY THE BEST

Write for Catalogue and Estimate, when figuring on your new houses.

A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.

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H. BAYERSDORFER & CO.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Immortelles, Ruscus Wreaths and Baskets for Plants

IN MANY STYLES

50 to 56 N. Fourth St., - - Philadelphia, Pa.

SEND FOR CATALOGUE

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THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 4

NEW YORK, JANUARY 28, 1905

One Dollar Per Year

TARRYTOWN FERN

(*Nephrolepis Piersoni elegantissima*)

NOW READY FOR DELIVERY. THE BEST RECORD OF ANY NEW INTRODUCTION
The much coveted \$50 Prize from the Horticultural Society of New York.
FOR THE BEST NEW PLANT OF THE YEAR

There is nothing in the fern line that is as handsome as this beautiful fern when well grown. It is a wonderful improvement over *Nephrolepis Piersoni* in every respect, both in regard to beauty and habit of growth. It is a sport from the Pierson Fern (*Nephrolepis Piersoni*), but it is very much more beautiful and of greater commercial value. It is as different from the Pierson Fern as that is from the Boston. The small side pinnae are again subdivided, producing an exquisite and beautiful effect, changing the entire character of the fronds, which measure less than half the length and about twice the breadth of the fronds of the Pierson Fern. The fronds also assume an entirely different form, the side pinnae standing at right angles to the mid-rib of the frond, on edge rather than flat, as is usual, making both sides of the frond equally beautiful—entirely different from any other fern.

The plant is very dwarf, only about half the height of the Pierson Fern, and of very much more compact habit. Taking it altogether, it makes one of the most exquisite plants and one of the most valuable for table and house decoration that has ever been introduced.

The cut fronds, on account of their beauty, will be in great demand for table decoration, design work, and for use in boxes of loose flowers. Well-grown plants make most magnificent specimens. We think there is nothing in the fern line that is so handsome as this beautiful fern when well grown. It is a wonderful improvement over *Nephrolepis Piersoni* in every respect, both in regard to beauty and habit of growth.

PRICES:—2 1/4-inch pots, \$9.00 per doz.; 50 plants at 60c. each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each. LARGE PLANTS—5-inch pots, \$18.00 per dozen; 8-inch pots, \$24.00 per dozen; 8-inch pots, \$38.00 per dozen; 10-inch pots, \$60.00 per dozen.

F. R. PIERSON, CO., Tarrytown-on-Hudson, N. Y.

- GOLD MEDAL WORLD'S FAIR**
SHAW GOLD MEDAL
Louisiana Purchase Exposition.
- GOLD MEDAL**
Pennsylvania Horticultural Society.
- GOLD MEDAL**
Rhode Island Horticultural Society.
- GOLD MEDAL**
New Orleans Horticultural Society.
- SILVER MEDAL**
Society of American Florists.
- SILVER MEDAL**
Massachusetts Horticultural Society.
- SILVER MEDAL**
New York Florists' Club—Highest Award
- SILVER MEDAL**
American Institute, New York.
Highest Award.
- SILVER MEDAL**
Newport Horticultural Society,
Highest Award.
- SILVER MEDAL**
Tarrytown Horticultural Society,
Highest Award.
- And Numerous Diplomas and Certificates of Merit

Good Forcing Stock for Easter

SPIRÆAS			LILACS—For Forcing		
Ready now, packed in cases of 160 clumps.			Pot-grown, now ready for 8-inch pots.		
	Doz.	100		Doz.	100
Japanica.....	\$0.75	\$4.00	Gladstone.....	\$1.50	\$10.00
Compacta Multiflora.....	.75	5.00	Superbe.....	1.00	8.00
Astilboides Floribunda.....	.75	5.00	Washington.....	1.25	8.00

DEUTZIAs—Pot-grown			LOW-BUDDED, for EARLY FORCING, Etc.		
Now ready for 6-inch pots.			Low-Budded, 2-year-old		
	Ea.	Doz.		Ea.	Doz.
Gracilis.....	\$0.15	\$1.50	Marie Legraye.....	\$0.75	\$8.00
Lemoine.....	.25	2.50	Mme. Casimir Perier.....	.75	8.00
			Mme. Lemoine.....	.75	8.00

ROSES

HYBRID PERPETUAL.		Low-Budded, 2-year-old	
Abel Carriere.....	Duke of Connaught	Geant des Batailles.....	Magna Charta
Alfred Colomb.....	Duke of Edinburgh	John Hopper.....	Mme. Gabriel Luizet
Anna de Diezbach.....	Duke of Teck	La France.....	Mrs. John Laing
Anna Alexieff.....	Eugene Verdier	Mable Morrison.....	Præmia
Ball of Snow.....	Fisher Holmes	Mme. Charles Wood.....	Paul Neyron
Baroness Rothschild.....	Gloire de Margottin	Margaret Dickson.....	Perle des Blanches
Capt. Christy.....	Gen. Jacqueminot	Marshall P. Wilder.....	Persian Yellow
Cheshnut Hybrid.....	Gen. Washington		Prince Camille de Rohan

PRICES OF ABOVE SORTS: Dormant plants, purchaser's selection, \$100.00 per 1000; \$11.00 per 100; 65c. for bundle of 5. Not less than 5 of any one variety sold.

TEA and HYBRID TEAS.		Low-Budded, 2-year-old	
American Beauty.....	Caroline Testout	Gloire de Dijon.....	Malmaison
Kaiserin Aug. Victoria.....	President Carnot	Hermosa.....	Gloire Lyonnaise
Gruss an Teplitz.....	White La France	Marie Van Houtte.....	Queen Scarlet

MAMAN COCHET, pink and white, 2-year-old, own root, American grown. The finest of all roses for florists, either for indoors or outside. Price, per bundle of 10, \$1.25; \$11.00 per 100, and \$100.00 per 1000.

CRIMSON RAMBLERS	
LARGE DORMANT PLANTS, 2-year-old, 4 to 6 feet long, with many branches, each, 25c.; per 5, \$1.00; per 100, \$15.00. Second size, 2 1/2 to 4 feet long, each, 20c.; per 5, 75c.; per 100, \$12.00.	BABY CRIMSON RAMBLER, (Mme. Levassieur), field-grown plants, \$35.00 per 100; \$5.00 per doz.; 50 cts. each.

CLUCAS & BODDINGTON CO. 812-814
Greenwich St. N. Y. CITY
Corner of Jane Street. Telephone, 1063 Chelsea.
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

CUT STRINGS OF

Asparagus Plumosus Nanus

First-Class Stock, Running Even and Full, 50 cts. each

Asparagus Plumosus Nanus Seeds

These are the true variety, 75 cts. per 100; \$6.00 per 1000

KAISERIN and CARNOT

for early Summer flowering
1/4-inch pots, \$4.00 per 100; \$35.00 per 1000

BRIDE and BRIDESMAID

1/4-inch pots, \$4.00 per 100; \$35.00 per 1000

W. H. ELLIOTT, Brighton, Mass.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

3,000 ETHEL WARD	\$7.00 per 100	2,000 PROSPERITY	\$2.00 per 100
2,000 THE PRESIDENT	\$60 per 1000	3,000 MACKINAC	\$15.00 per 1000
2,000 WHITE LAWSON		2,000 THE BELLE	\$6.00
5,000 ENCHANTRESS	\$4.00 per 100	2,000 LADY BOUNTIFUL	Per 100
2,000 CHRISTMAS EVE	\$30 per 1000	3,000 JUDGE HINSDALE	
2,000 GOLDEN EAGLE	\$5.00 per 100	2,000 MRS. PATTEN	\$50.00
2,000 GOLDEN EAGLE	\$40 per 1000	2,000 NELSON FISHER	Per 1000
1,000 HARRY FENN	\$3.00 per 100	2,000 OCTOORON	
5,000 LAWSON	\$25.00 per 1000	2,000 FLAMINGO	

50 of a kind at 100 rate; 250 of a kind at 1000 rate
COTTAGE GARDENS COMPANY (INC.), QUEENS, N. Y.
C. W. WARD, Manager

Mention the Florists' Exchange when writing.



EED'S CROP 1904

- Asters Branching colors, Tr. pkt. 25c., oz. 50c.
- Cobaea Scandens " " 15c., " 30c.
- Smilax " " 10c., " 35c.
- Salvia Splendens " " 25c., " \$1.25
- Bonfire (Clara Bedman) " " 25c., " 2.50
- Sweet Peas Leading sorts for forcing. 20c. to 50c. oz.

Lily of the Valley Cold storage, Hamburg \$10.00 per 1000, Berlin \$11.50 per 1000.

Straw Mats For cold frames 6 ft. x 6 ft. \$1.60. Doz. \$18.00.

Burlap Mats For cold frames 6 1/4 ft. x 6 1/4 ft. \$1.35. Doz. \$15.00.

Bamboo Canes 6 to 8 ft. 1000 \$6.00.

Sheep Manure Western sterilized, ton lots \$20.00. Rams Head, ton lots \$28.00

WM. ELLIOTT & SONS, NEW YORK
Mention the Florists' Exchange when writing.

FOR SPRING BEDDING Tuberous Begonias

Make up handsome. It is time now to start them. Send us either \$1, \$2, or \$3. We will mail you an excellent collection in both single and double; separate colors or mixed.

HUBERT & CO.
N. Le Page, Rep. Mount Vernon, N. Y.
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SEEDS

Ballyhocks, in 10 best varieties, all double. Delphiniums, in 12 varieties, including doubles and insect orchid-flowering. Dianthus Barbatus, auricula-flowering. Veronica Longifolia, Digitalis, in great variety. Lobelia Cardinalis, the beautiful cardinal flower. Lobelia Syphyllitica, blue. Write for trade prices. Single trade packet, 10c.

277 Jefferson Avenue, **CHAS. LONG, ROCHESTER, N. Y.**
Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of GLADIOLI AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR GOWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS For Present Sowing.

10 PER CENT. SPECIAL CASH DISCOUNT on orders over \$2.00 for Flower Seeds if the cash is enclosed. This discount does not apply to Asparagus Seed; cash discount on this is 2 per cent.

We are HEADQUARTERS for **ASPARAGUS PLUMOSUS NANUS.**
Greenhouse-Grown Seed of

	Trade pkt.	Oz.
AGERATUM, Imperial Dwarf, blue.	\$9 10	\$9 25
Imperial Dwarf, white.	10 25	10 25
Blue Perfection, dwarf.	10 25	10 25
Princess Pauline, fine for pots.	10 30	10 30
Princess Victoria Louise, new, beautiful blue and white flowers, plants compact and free-blooming.	10 60	10 60
ALYSSUM, Sweet.	10 15	10 15
ALYSSUM, Little Gem.	10 35	10 35
AMPELOPSIS VEITCHII, lb.	\$1.00	10 15

	Trade pkt.	Oz.
Centaurea Gymnocarpa	10 25	10 25
CINERARIA Maritima Candidissima	\$0 10	20 20
COBEA Scandens	10 40	10 40
Alba	15 80	15 80
LEMN YERRENA	1/4 oz., 40c.	15 80
LINARIA (Kendworth Ivy), 1/4 oz., 40c.	15 80	15 80
LOBELIA, Crystal Palace Compacts, 1/4 oz., 25c.	15 125	15 125
Speecea, dark flowers and foliage for hanging baskets.	1/4 oz., 15c.	10 60
Emperor William, dwarf, 1/4 oz., 20c.	10 85	10 85
Heading Queen, 1/4 oz., 25c.	15 125	15 125
NICOTIANA Sanders, with large, bright carmine flowers, trade pkt., 17c.		

ASPARAGUS PLUMOSUS NANUS.

New Crop, greenhouse grown seed, per 1000 seeds, 75c.; 250 seeds, \$1.50; 100 seeds, \$5.00.

Plumosea Robustus, new, per 100 seeds, \$1.00; 1000 seeds, \$10.00.

Sprengerii, 100 seeds, 15c.; 1000 seeds, 75c.; 6000 seeds, \$3.25.

Write for prices on larger lots on above three. Decumbens, 100 seeds, 50c.; 1000 seeds, \$4.00.

Commissaris, per 100 seeds, \$1.25; 1000 seeds, \$10.00.

ASTERS.

Queen of the Market.	Trade pkt.	1/4 oz.	Oz.
White	\$5.00	\$0 10	\$0 20 \$0 50
Pink	5.00	10	20 50
Scarlet	6.00	10	20 50
Light blue	5.00	10	20 50
Dark blue	5.00	10	20 50
Mixed	4.25	10	15 40

Branching or Simple's	Trade Pkt., 10c.	1/4 oz., 20c.	1/2 oz., 40c.
White			
Rose pink			
Lavender			
Red			
Purple			
Light blue			
Daybreak pink			
Mixed			

ASTERS

Queen of the Market.	Trade pkt.	1/4 oz.	Oz.
White	\$5.00	\$0 10	\$0 20 \$0 50
Pink	5.00	10	20 50
Scarlet	6.00	10	20 50
Light Blue	5.50	10	20 50
Dark Blue	5.50	10	20 50
Mixed	4.25	10	15 40

Branching or Simple's	Trade Pkt., 10c.	1/4 oz., 20c.	1/2 oz., 40c.
White			
Rose pink			
Lavender			
Red			
Purple			
Light blue			
Daybreak pink			
Mixed			

Queen of the Market.	Trade pkt.	1/4 oz.	Oz.
White	\$5.00	\$0 10	\$0 20 \$0 50
Pink	5.00	10	20 50
Scarlet	6.00	10	20 50
Light Blue	5.50	10	20 50
Dark Blue	5.50	10	20 50
Mixed	4.25	10	15 40

FRESH CROP

Cocos Weddeliana Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000

Asparagus Plumosus Nanus Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000.

New Crop Just Received.

STUMPP & WALTER CO., 50 Barclay St., New York

Branch Store 404 East 34th St., N. Y.

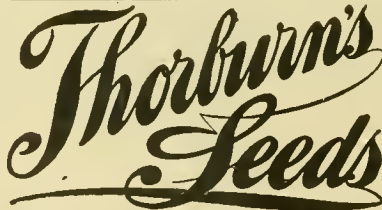
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BURPEE'S SEEDS GROW AND WIN MORE PRIZES

than the products of any other brand! Besides several Gold Medals, they won a Grand Prize for Vegetables at the St. Louis Exposition. If you intend to try Burpee's Seeds, we will mail free our Complete Catalogue of 178 pages, with beautifully colored plates and illustrations from photographs taken at our famous Fossbrook Farms, the largest Trial Grounds in America. If you garden for profit or are a florist you should also have Burpee's "Blue List" or Wholesale Price List for Market Gardeners and Florists. Write TO-DAY!

W. ATLEE BURPEE & CO., SEED GROWERS, PHILADELPHIA

Mention the Florists' Exchange when writing.



LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per case of 3000 for - - - \$24.00

Two or more cases at \$7.50 per 1000

J. M. THORBURN & CO.

36 Cortlandt St. New York
Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

Asparagus Plumosus Nanus, 100 seeds, 60 cts.; 1000 seeds, \$5.00.	
Begonia, Vulcan and Bonfire, trade pkt., 25 cts.	
Cyclamen Giganteum, 100 seeds, 60 cts.; 1000 seeds, \$5.00.	
Petunia Fimbriata Grandiflora, trade pkt., 60 cts.	\$1.00
Salvia, Bonfire, trade pkt., 25 cts.; oz., \$2.25.	
Splendens, trade pkt., 20 cts.; oz., 90 cts.	
Stocks, Dwarf Ten Weeks, trade pkt., 25 cts.; oz., \$2.75.	
Verbena, Mammoth, trade pkt., 20 cts.; oz., \$1.00.	

FRESH TOBACCO STEMS, bale of 300 lbs., \$1.50.

W. C. BECKERT, Allegheny, Pa.

Mention the Florists' Exchange when writing.

BULBS

Lilium Canadense	\$4.00 per 100
" Superbum	4.00 "
" Umbellatum	5.00 "
" Rubrum	5.00 "
Lemane Grandiflora	6.00 "

FOR FORCING "EASTER" GLADIOLI, \$20.00 per 1000.

TRADE LIST FREE.

JOHN LEWIS CHILDS, Floral Park, L.I.

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ASPARAGUS SEED

Greenhouse-Grown, Fresh, TRUE

ASPARAGUS Plumosus Nanus, 100s, 1000s.	
" Crop, ready February	\$0.60 \$4.50
Plumosus Robustus, new	1.00 8.00
Decumbens	.50 3.75
Scandens Deflexus, especially fine for hanging baskets and cutting	1.25 10.00
Sprengerii, 5,000 seeds, \$3.50.	.16 .75
KENTIA Belmoreana or Forsteriana	.50 4.00
Heading Queen	.15 1.00
PHOENIX RECLINATA	.50 3.00
MUSA ENSEAE	1.00 8.00
PANDANUS UTILIS	1.00 8.00
COCOS WEDDELIANA	.85 7.50
LANTANA BORBONICA, (Feb'y)	.40 2.00

ASTERS

Queen of the Market.	Trade pkt.	1/4 oz.	Oz.
White	\$5.00	\$0 10	\$0 20 \$0 50
Pink	5.00	10	20 50
Scarlet	6.00	10	20 50
Light Blue	5.50	10	20 50
Dark Blue	5.50	10	20 50
Mixed	4.25	10	15 40

BEGONIA VIBRON, tr. pkt., 10c.; 1/4 oz., 20c.	
CYCLAMEN, Giant flowered pure white, rose, blood red, white with red eye, separate 100 seeds, 70c., 1000 \$6.00. Mixed, 100 seeds 60c., 1000 \$5.00.	
LORELLA, Crystal Palace	\$0.15 \$0.50 \$1.50
PANSIES, Berger's Neverfall, mixture of finest giants all sorts, all colors	.25 1.00 3.00
PETUNIA, Giant of Calif., ruffled and fringed, pkt., 25c.	.50

SEND FOR OUR NEW SPRING LIST

Address **H. H. BERGER & CO., 47 Barclay St., N.Y.**

Mention the Florists' Exchange when writing.

NEW YORK VAUGHAN'S SEED STORE 14 Barclay Street.

CHICAGO 84-86 Randolph St.

Mention the Florists' Exchange when writing.

NEW CROP ASTER SEED



The strains herein offered are procured from the leading specialists in Europe and America, and the most critical florist can depend upon receiving Asters of the highest quality obtainable.

GIANT COMET —	Trade pkt.	Oz.
The Bride.....	\$0 20	\$1 00
Dark Blue.....	20	1 00
All Colors, mixed.....	16	76

QUEEN OF THE MARKET ASTER

Three weeks earlier than any other variety; of dwarf branching habit and very desirable for growing under glass; very popular for bunching and cutting. Tr. pkt. Oz.

White.....	\$0 20	\$0 60
Pink.....	20	60
Crimson.....	20	60
Blue, light or dark.....	20	60
Purple.....	20	60
Mixed.....	16	50

SEMPLÉ'S BRANCHING OR LATE FLOWERING ASTERS

These Asters are unequalled for florists' use. The flowers are immense and very beautiful, resembling a chrysanthemum, and are borne on long, erect stems. They are late bloomers and come at a time when they sell well, lasting for days after being cut.

	Trade pkt.	Oz.
New Branching, Pure White.....	\$0 20	\$0 76
" " Scarlet.....	20	76
" " Pink.....	20	76
" " Lavender.....	20	76
" " Purple.....	20	76
" " Choice Mixed.....	20	60
Vick's White Branching.....	20	76
Daybreak, shell-pink.....	30	2 00
Purity, double white.....	30	2 60

Our Wholesale List for Florists mailed on request

COMET OR PLUME ASTERS

A very beautiful and distinct class, with long curled and twisted petals formed into a loose yet dense half globe, resembling a Japanese Chrysanthemum.

GIANT COMET —	Trade pkt.	Oz.
White.....	\$0 25	\$1 00
Rose.....	25	1 00
Bright Red.....	20	1 00
Light Blue.....	20	1 00

JOHNSON & STOKES, 217 & 219 MARKET ST. Philadelphia, Pa.
Mention the Florists' Exchange when writing.

SOW NOW



Rawson's Memmoh Verbenas
Unrivalled for size, beauty and variety of colors.
1/4 oz. \$0.30; \$1.00 per oz.
W. W. RAWSON & CO.
Seedsmen,
12 Faneuil Hall Square,
BOSTON, MASS.

Manetti Stocks

For grafting purposes now ready.
Send in your order early.
THE ELIZABETH NURSERY CO.,
Elizabeth, N. J.

\$5.00 for 1000 Seeds

We have just received from our grower a surplus lot of choice
NEW CROP ASPARAGUS PLUMOSUS SEED

Which to move quickly we offer at the following special prices:
75 cts. per 100 seeds; 250 seeds, \$1.50; \$5.00 per 1000; 5000 lots, \$22.50. All stock is this season's picking, of splendid germinating qualities.

WRITE US for Wholesale List of New Crop Flower Seeds, Bulbs, etc.
HENRY F. MICHELL CO., Importers and Seed Growers,
1018 Market St., Philadelphia, Pa.

Excelsior Pearl Tuberoses

Caladium Esculentum Bulbs
Canna Roots
Are you supplied? If not, write for prices.

JOHN F. CROOM & BRO., Growers,
MAGNOLIA, N. C.

AUSTRIA CANNAS

5000 Extra Fine, Large Bulbs
\$20.00 per 1000; \$2.50 per 100
Cash With Order.

FRANK CUMMINGS, Meridian, Miss.
Mention the Florists' Exchange when writing.

ASTER SEED THE BEST GROWN

Simple's Shell-pink and White
1-4 oz. 60c.; 1-2 oz. \$1.00; oz. \$1.50
A. W. SAMPSON, Penn Yan, N. Y.
Mention the Florists' Exchange when writing.

F. W. O. SCHMITZ PRINCE HAY, N. Y.

Wholesale Importer and Exporter of
Bulbs, Plants, Roots, Etc.
All Inquiries Cheerfully Answered
Mention the Florists' Exchange when writing.

LANDRETHS' SEEDS

Before placing Your Order elsewhere ask us our prices for choice Seeds
Bloomdsale, Bristol, Penna.

Mention the Florists' Exchange when writing.

THE SEEDS

We offer have been grown and collected with a special view to giving satisfaction for Florists' use. Our Specialty—
Best Modern Single Dahlias
Choice Single Petunias
True Early Cosmos
Trade Pkts. 25c. each; 6 for \$1.00
BENJ. SILL & SONS
116 Main St., Long Island City, N. Y.
FARM, QUEENS, L. I.
Mention the Florists' Exchange when writing.

SHAMROCK ...IRISH...

Strong and fine plants. Better order early.
\$1.00 per 100; or 60 cts. per doz., by mail.

XXX SEEDS

Verbena. Improved mammoth, the very finest grown, mixed. 1000 seeds, 25c.
Cineraria. Finest large flowering dwarf. 1000 seeds, 50c.
Phlox Pumila Compacta. Very dwarf and compact; grand for pots; in finest colors, mixed. Trade pkt. 25c.
Alyssum Compactum. The most dwarf and compact variety grown; perfect little balls when grown in pots. Trade pkt. 25c.
Chinese Primrose. Finest large-flowering fringed varieties, mixed; single and double. 500 seeds, \$1.00; half pkt. 50c.
Pansy, Finest Giants. The best large-flowering varieties, critically selected; mixed, 5000 seeds, \$1.00; half pkt. 50c.
Petunia. New Star; from the finest marked flowers, extra choice. Trade pkt. 25c.
CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.
Mention the Florists' Exchange when writing.

Dreer's New Crop Reliable Flower Seeds

The following is a short list of Flower Seeds which should be sown early to make good stock for Spring sales. For complete list see our Wholesale Price List for January, copies of which have been sent to all florists.



Verbena.

Ageratum Blue Perfection, dark blue.....	Trade pkt. \$0.16	Per oz. \$0.50
Asparagus Plumosus Nana, true, \$1.00 per 100 seeds; \$7.00 per 1000 seeds		
" Sprengert.....	\$0.75 per 1000 seeds; \$3.00 per 6000 seeds	
Begonia Verbon.....	.25	
" Grandiflora.....	.25	
" Graellsia, rose.....	.25	
Browallia Spectabilis, Major.....	.50	
Centaurea Candidissima.....	.25c. per 1000 seeds	1.60
Gymnocarpa.....	.15c. "	.35
Cineraria Maritima Candidissima.....	.10	.20
" Acanthifolia.....	.20	.75
Cyclamen Persicum, mixed.....	.40	2.50
Giganteum, white, rose, blood-red, or white with red eye.....	.75c. per 100 seeds; \$3.00 per 1000 seeds	
Giganteum, mixed.....	.60c.	
Heliotrope, Lemoine's Giant, mixed.....	.40	2.00
Ipomea Grandiflora (Moonflower).....	.15	.60
Lobelia, Crystal Palace Compacta, true.....	.30	1.25
" Spectosa, dark blue trailing.....	.15	.50
" Graellsia, light blue trailing.....	.15	.40
Nicotiana Sandera, the new red-flowering.....	.70c. per pkt; 7 pkts., \$1.00	
Pansy, Royal Exhibition Mixture, the finest money cost buy.....	.50	8.00
" Premium, next to our Royal Exhibition the finest mixture.....	.50	4.00
" Giant Trimardeau, a fine mixture, large flowers.....	.25	1.00
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Our own growing, just ripening on selected plants, 100 seeds 50c.; 500 seeds \$2.00; 1000 seeds \$4.00.

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VAUGHAN'S SEED STORE, Chicago and New York.

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Seed Trade Report.

OMAHA, NEB.—W. Hagemann and Ralph Ward, of New York, were looking up bulb buyers here last week.

L. G. COLYN, representative of Van der Gugten & Colyn, bulb growers, Holland, will leave soon for his annual trip to the United States. He succeeds Gerard A. Scheepers, who died August 14, 1904. His address, from February 1 till May 15, will be care of Maltus & Ware, 136 Water street, New York.

BOSTON.—Arthur Holland, of Farquhar's, is leaving this week to take a position with Weeber & Don, New York. Everett Wheaton, for the past ten years with the firm of Jos. Breck & Son, died Saturday of pneumonia. The funeral took place Monday. G. R. Milham, of the Cleveland Seed Co., Rochester, N. Y., has been here this week in the interests of his firm; also Mr. Heath, of the Albert Dickinson Co., Chicago. Mr. Rogers, of Rogers Bros., Chaumont, N. Y., has also been a visitor. Thos. J. Grey is in Lenox this week looking after the business of his firm.

HAARLEM, HOLLAND.—In one of our recent numbers, we mentioned the quinquennial exhibition of the Royal Dutch Bulb Growers' Society, to be held from March 17-21, in Haarlem. By glancing through the schedule, we find that this show bids fair to be of special interest to all engaged in bulb culture. As of old, the Dutch look upon it chiefly as a home school; they keep it national, but their decision to invite also English members of horticultural circles, to act as judges, may be looked upon as a proof that they do not shut their eyes to what is going on elsewhere. We are informed that visitors from this and other countries will be much appreciated; no doubt they will be welcomed, and a sort of reception in the Ghent style is talked of.

European Notes.

Although the sharp frost that ushered in the New Year was of short duration in the north of Europe, in the South it was more prolonged and of greater severity while it lasted. All along the shores of the Mediterranean and north of the Basses Alpes the thermometer fell for four consecutive days to from 15 to 17 degrees Fahrenheit. All through the Riviera the destruction has been very great, as the florists are in full swing just now supplying the local demand (which is now at its best) and shipping a very large surplus to northern markets.

While this will benefit the northern florists, who need all the help they can get in these dull times, its principal interest to the seedsmen consists in the effect the frost must have upon the development of Roman hyacinths. Paper White and other varieties of narcissus, and the whole host of miscellaneous bulbs and flowering roots which the south of France has been in the habit of supplying to the world.

Near Naples the frost has been more severe than the "oldest people" can remember. Several plants, such as Nicotiana colossea, Musa ensete and many varieties of ipomea are quite lost.

How much it has damaged the cauliflower cultures cannot yet be judged, but they have suffered severely. The same is true of onions, and as the acreage planted is much smaller than the average, a sharp rise in prices is certain in the near future.

It is a singular fact that the thermometer stood 30 degrees higher in the Shetland Islands than in the Riviera. The fashionable butterflies who make the latter district their winter playground would have been much better off at home.

Here, in the north, conditions are improving, and business is consequently very brisk. Already the shortages are beginning to pinch, but we have one comfort in that we are all in the

W. & T. SMITH COMPANY

Geneva, N. Y.

Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vines
Fruit Trees and Small Fruits.

WHOLESALE PRICE LIST SENT ON REQUEST

Mention the Florists' Exchange when writing.

same boat. The drier weather is helping the nasturtiums along nicely, and orders for such varieties as have not completely perished can now be filled.

A new seed firm starts in London to-day, two of the employes of Jacob Wrench & Sons, Limited, having opened a store exactly opposite the old establishment in King William street. EUROPEAN SEEDS.

The Southern Seed Trade.

But few are aware of the immense amount of seeds used in the South, more particularly on the east coast, from Norfolk to Miami. The truckers, as a whole, do not regard the seed used as a serious matter, excepting when it fails to germinate, or is not true to name or description. When such is the case, it is the seed merchant that is the sufferer. It matters not what the cause may be, it is the result that is considered. If the seed disappoints, no apology will be accepted; the seedsmen is considered unreliable, and future orders will go elsewhere.

The amount of seed used by those truckers is astounding. For instance, one farmer, or trucker, on Young's Island makes the growing of cabbage plants for the trade a specialty and has thirty-five acres of young plants now growing, to produce which he sowed 1,200 pounds. Another farmer near by planted 1,000 pounds of cucumber seed, and the writer heard him say to the dealer, "Get me 1,000 pounds of seed, the same kind as I had last year. If it costs me ten dollars per pound, I must have it." Of course he would prefer paying the usual price, but the cost of seed was not for a moment to be considered, and woe to him that furnishes an inferior article. These truckers do not sow the seed; they simply pour it in the trenches. More than that, they make three sowings. The first one is almost always killed by frost; not one year in five will it survive; when it does the extra price the cucumbers bring doubly pays for the cost of seed and labor in putting it in. The second sowing, within two or three inches of the first, very rarely fails. To be secure, however, a third sowing is made, which is not required once in ten years; but in case the two first sowings fail they do not lose a crop. Although many truckers continue it, this practice is not as common as formerly, as the crop from the extreme southern point is rarely lost and is started so early that but little risk is taken.

Spinach is sown with a lavish hand. Some truckers grow as much as 200 acres and use fully four times as much as they should, at an enormous expense. The writer saw on one farm 300 acres of cabbage, the grower using 500 pounds, when 100 would have been ample.

The potato is the only crop grown without double the amount of seed being used that is necessary. This industry, as carried on near Charleston, is sufficient to enrich the whole country. For example: There are ten farmers in this section who in the past year made a clear profit of from \$5,000 to \$35,000 each. One, who cleared the latter sum, had potatoes as one of his crops; he had 250 acres of these and sent to New York an average of 75 barrels per acre, which sold at from \$3 to \$6 per barrel. Had the crop been as large as in previous years, at the same price, his profits would have been fully \$100,000. The man that grew cabbage plants made \$12,000 from a crop of fifteen acres.

This is the seedmen's land of promise; but to reach it he must have the best only—poor seed will impoverish both himself and the trucker.

RICHMOND, VA.—T. W. Wood & Sons, the pioneers of the seed trade in the South, have just completed their four-story warehouse for grass and grain seeds; it is one of the most complete, as well as the largest, in this country. From a small beginning, at the close of the war, they are now among the largest dealers in the trade.

They were the first to introduce the crimson clover, starting with but a few pounds, and have just laid in a million pounds for the coming season's trade. They report trade very brisk and anticipate a larger business this year than ever.

The Diggs & Beadles Co., who cater to the truckers' trade, are very busy and have their new store well filled with seeds adapted to their needs.

T. J. King & Co., who started to build up a business on an entirely new plan, have succeeded beyond their expectations. Their trade is chiefly in seeds for the home garden, both vegetable and flower. They speak well of their past trade and the prospects of the coming season.

ATLANTA, GA.—H. G. Hastings & Co., who started a small business a few years ago in Interlachen, Fla., have made a most wonderful success. They cater to all classes of trade in which there is a profit, and wholly ignore the wholesale trade. The Southern truckers are the ones they most earnestly seek, and that trade is simply immense. The Bermuda onion growers and their competitors in Florida are great buyers, and this firm claims to have more than the lion's share of the trade. They have just sent out 220,000 catalogues and are preparing to build a very large warehouse for their increasing business, which is largely a mail and express one. In the future they expect to do all their own printing, and to have their whole plant in one building.

CHARLESTON, S. C.—In this city, as in nearly all the cities south of the Potomac, a seed store as such is not to be found. This comes from the fact that but few varieties of vegetables are grown in any great quantities. Such as are to be found are grown for the New York markets. Consequently, the seeds sold are by the produce dealers. Among these, the Southern Fruit Company stands prominent. This house does a successful business in the few lines handled. Combined, the various kinds amount to as much of a business, based upon values, as some of the regular seed houses throughout the North. The members of this concern are pleased with the outlook and are shipping carload lots of seed potatoes and large quantities of peas, beans and other specialties. Of seed potatoes they say the Southern growers' second crop of the various kinds give decidedly the best satisfaction; they make stronger vines and are more productive and uniform in time of ripening.

JACKSONVILLE, FLA.—Burton K. Barr & Son are doing a fair trade along certain lines. They are quite prominent in the Bermuda onion seed trade and report an increasing business.

Azalea Amoena

Ornamental Trees and Shrubs in Great Variety

Ask for Trade List

SAMUEL C. MOON, Morrisville, Pa.

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"Some things in a pot"

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SPECIAL
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NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Tart Cherries.

It is the experience of nurserymen that the purchaser of a single tree of cherries always wants a pie cherry represented. If it is but a single tree, oftener than not the common Early Richmond is the one taken. The reason for this is that this good old pie cherry is one of the most reliable of all for annual bearing of crops; it is, too, a cherry that commences to bear when quite young, and it produces enormous crops. Then, too, sour though it be, it is not too sour to be eaten and enjoyed when fully ripe. And, further, its tartness is some protection against the robin, a bird which prefers to wait a while and take some of the sweeter sorts, which ripen after the pie cherry.

The Early Richmond is the favorite pie cherry, but there are other quite tart ones. Among these the best known are the Kentish, English and Montmorency, all real tart varieties. The English is very tart and ripens later than the others, and its exceeding tartness makes it keep well. When first interested in cherries, many years ago, I was told that the English Morello was not suited to our climate, the fruit rotting. Two trees, which I grew myself for many years, perfected their fruit all right, showing no signs of rotting.

There are other quite tart cherries, and besides those named, the Duke cherries are in this section, although they are between the sweet and the sour in flavor, so that whether for eating out of hand or for pies or preserving they are much esteemed.

A word about the planting of cherries will be timely, as Spring is approaching. Plant them early. If deferred until the buds are well advanced, they do not flourish as they would do were they planted earlier, even if well pruned back. It is almost useless to set them if in leaf.

San Jose Scale.

Dr. George G. Groff, of Lewisburg, Pa., writes me disagreeing with me that the San José scale is carried from tree to tree on the feet of birds. Among other things, he says of it: "I have found it to travel with exceeding slowness, and, practically, it cannot get from one farm to another. It selects its habitations. My lot of four acres is closely planted. I have more than fifty cherry trees. It has never infested but two of these trees, and then it walked to them from infested Ben Davis apple trees. It has never gone to a cherry tree on a sparrow's feet. Then, again, I have numerous Kieffer pear trees. Never has one of these been infested. It likes fruit, currants, barks, Japan quince, seedling apple trees, Sickel pear, Ben Davis apple, etc."

The general belief is that its spread is nearly altogether owing to the aid it gets from birds' feet. The owners of trees that are situated far away from any other fruit trees and whose trees yet become infested with scale, will be slow to accept the Doctor's theory that the scale has crawled to the tree, or has reached it in some other way than by the aid of birds. He has written me twice, and seems convinced that the birds have but little to do with it. The many instances of isolated trees and orchards becoming infested and the reasonableness of the supposition that the young insects would become attached to the feet of a bird and in that way be taken from tree to tree, gives cause for just suspicion that birds are blameable in these cases. I have knowledge myself of such cases of isolated trees becoming attacked, and there appearing no possible way of accounting for it excepting that birds had been the agents. Dr. Groff's experience as to the preferred shrubs or trees is very interesting. It will be noticed he places the currant bush first. But when he says, "Practically it cannot get from one farm to another," I fear the facts are against him, much as I wish it were otherwise. It is sure it does so get to them and not by its own volition.

Protecting Seedlings.

From February to March is the most trying time on trees of the whole Winter. So far, up to the close of January, no great harm is ever done to nursery stock. At least, this is true of Pennsylvania. After January the increased strength of the sun is felt, and this is when the injury to stock is done. Already, at this writing, January 20, the sun sets twenty-five minutes later than it did a month ago, and by February 1 the difference between what it is and what it was will be still more distinctly noticed. In the way of protection, it is not so much good-sized trees and shrubs that are thought of, as it is those of the small and seedling sizes. Deciduous stock as well as evergreen, if without covering of some kind, will get heaved out by the freezing and thawing going on, and it is to prevent this that covering is thought of. What is required is shade, produced by some rough litter—anything that will prevent the alternate freezing and

thawing which occurs when the sun has full play on the stock. When snow is about all Winter, that is entirely sufficient; but in the Middle States we cannot rely on it, and must use straw, long manure or something of like character to effect the purpose.

But few nurserymen in the colder States set out young stock in the Fall, unless well rooted. Where not well rooted this is the sort of stock that gets heaved out lying on top of the ground when Spring comes, and to prevent which the mulching must be applied. It applies, of course, to florists' stock, herbaceous, and all small, poorly rooted stock or stock with but a single stem root with no fibrous ones to hold them in the ground.

The Proper Planting of Trees.

An employee of a nursery writes me, inquiring as to the recognized way of planting trees, inasmuch as relates to the packing or tramping in of the soil. He says that he has noticed that many gardeners fill in the soil about a tree by throwing it in loosely, while others go to a good deal of trouble in tramping the soil in as it is thrown in spadeful by spadeful. This question is one that often comes up, and seems never settled, because many trees planted in each way grow. But there is a certain requirement the roots must have attended to approach a successful transplanting, and this is, that the soil must firmly surround them. This is possible to occur under each plan. Soil thrown in loosely, if of a light, sandy nature, will be apt to pretty well surround the roots, especially so if a good watering, natural or artificial, follows. But



FRANK HAMILTON

Manager Cottage Gardens Co.'s Nursery and Landscape Departments, Queens, N. Y.

when the soil is tramped in it is fairly inferred the roots are well encased, particularly if the first few spadefuls are gotten in under and around the roots by hand. In my own practice, no matter how small the tree or shrub I plant, I always tramp in the soil. A help, and a far greater one than many think it, is to pour water into the hole when the soil has been filled in and tramped until the hole is three parts filled. No matter if the soil is already pretty wet, it is not poured in for the purpose of affording moisture to the plant, but to settle the soil about the roots. This it does, compacting it as nothing else will do as well. A hint of how it compacts it may be gathered from noticing plumbers who tear up a street to lay pipes. After the work of filling the trench is completed, or as it proceeds, a hose is attached to a plug, the water turned on and the soil flooded; in this way solidifying the soil almost as it was before. If this was done with all trees, large or small, when planted, but few would die.

It has often been remarked how rarely trees die that are heeled in in nurserymen's sand heaps, even when hurriedly set in. This is accounted for by the fact that the fine sand soon finds its way around the roots, compacting them as well as the best of care often does.

JOSEPH MEEHAN.

Failure of Seeds to Grow.

That the raising of seedlings of trees and shrubs requires more than ordinary care, is becoming better understood every year. By more than ordinary care is meant more than is required to raise successfully flowers and vegetables from seeds. But few, if any, seeds of the latter carried in stock by seedsmen require any particular care to insure vitality, but it

would not answer to keep tree seeds in the same way. Many of the kinds quickly lose their germinative power if kept in a dry state. The greater number of deciduous sorts do. For this reason all kinds, excepting those of a coniferous nature, should be procured as soon as possible in Autumn, and then be either sown at once or mixed with damp soil for the Winter, and then sown as soon as possible in Spring. A correspondent wrote me last week asking what would be his chances with sugar maple and American white ash, sown in Spring, which had been kept in a dry shed since gathered in September. It is not probable the ash would grow for a year; the sugar maple would not be likely to grow at all. Maples soon lose vitality. The proper way is to sow in Fall, but the seed will grow sown in Spring, if it has been kept moist all Winter. Ash will not lose its growing quality by being dry for a while, but it will be a year in the ground to "pay up for it"; whereas, had it been sown as soon as gathered, it would have grown the Spring following.

Those who deal in tree seeds find it difficult to conduct a paying trade. As mentioned, to be in the best condition for Spring planting, seeds should be kept moist all Winter. To do this would require a great amount of labor and care in the mixing with sand, moss, or like material, and then there would need to be considered the extra expense putting up and mailing or expressing them. The cost would be increased on every article. Then would come the competition of the neighbor, one who had not troubled to preserve his seeds, and could sell for a low figure. He would get the order, unless from one who knew what was what, and so would pay for the superior article. It is, as said, but few who understand what such seeds require. They buy flower and vegetable seeds in Spring and receive them in a dry state, and do not see why tree seeds should be any different. The best way of all is to study out in the Summer what seeds will be required, and then secure and sow them as soon as they ripen. Next to this procure them as soon as possible, and keep them in a cool place until Spring, first mixing them with fine soil or placing them in boxes between layers of damp moss. Coniferous seeds keep very well just as they are procured, in a dry state.

Frank Hamilton.

We present herewith an excellent portrait of Frank Hamilton, who has become associated with the Cottage Gardens Company, of Queens, N. Y., as manager of the firm's increasing nursery department.

Mr. Hamilton is a native of New York City, where he was born thirty-seven years ago. He received his education in the schools of Tarrytown, N. Y., and on Staten Island, and at the age of eighteen years entered the employ of F. R. Pierson, of Tarrytown, N. Y., in which establishment he acted severally in the capacity of propagator, and for three years as traveling representative, finally being in charge of the nursery department of that concern. Leaving the Pierson plant, Mr. Hamilton was for a time in charge of the greenhouses of Central Park, New York, at the same time supervising some of the outside features of the Park, particularly the Ramble, and for the past three years he had been head gardener at the Bronx Park, where he planned and carried out many telling improvements.

Mr. Hamilton goes to the Cottage Gardens Company with the highest recommendations, and with the best wishes of those with whom he has been associated. He is a painstaking, conscientious, hard-working fellow, and doubtless his services will prove as acceptable and valuable to his new employers as they have done to others whom he has served. At the recent meeting of the Cottage Gardens Company Mr. Hamilton was elected vice-president of the firm.

SAN FRANCISCO.—This month of all the year in San Francisco is notable for its many annual dinner parties, at flower-decked tables. Undoubtedly the most picturesque table decoration effect thus far in the current month was incidental to a dinner given on the 11th instant by Mrs. Jane Lathrop Stanford, of Leland Stanford, Jr., University fame, at her California street home. It was the annual entertainment to the president and trustees of the university, and the table decoration, by Alex. Mann, Jr., including the reception and drawing rooms, consisted exclusively of maidenhair ferns and sixty dozen selected, 30-inch stemmed Liberty and American Beauty roses displayed in Mrs. Stanford's magnificent service of golden urns and vases.

Also, in this second week of the New Year, the above named florist built a bower of smilax and asparagus, studded with white roses, a bell of white carnations being suspended from the inner center, beneath which, holding a shower bouquet of white hyacinths, stood his sister, Mildred Mann, supported by her betrothed, Abe Reinhertz, and thus the two became man and wife.

ALVIN.

DAVENPORT, IA.—Otto Klingbeil, 304 Brady street, has filed papers in bankruptcy. These will be forwarded to Des Moines, where they will come into the hands of Referee in Bankruptcy Helmick.

HUNTSVILLE, ALA.—Gustave Hoffman, who has been engaged in business in this city for over a year, has not been heard from in two weeks, at which time he took a train for Decatur, stating he was going to buy some pipe. The business, which has grown to be quite extensive, was left in the hands of an assistant, and is in good shape.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

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55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

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Singles, Granville, Mme. Brant, Mrs. E. G. Hill, Queen of the West, Single General Grant.		2.00	15.00
40 cts. per doz., \$2.00 per 100, \$17.50 per 1000, providing that not less than 200 of any one variety. Send for our descriptive Geranium Catalogue.			

DAHLIA ROOTS

Good selection of standard varieties, \$5.00 per 100; \$40.00 per 1000. Mixed, \$4.00 per 100; \$35.00 per 1000.

CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per 100; \$1.00 per 1000; \$8.50 per 10000.

PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.

LETTUCE Big Boston, Boston Market and Grand Rapids, 25 cts. per 100; \$1.00 per 1000.

TOMATO Lorillard seed bed plants, 50c. per 100, by mail; \$2.00 per 1000, express. 2 1/2 in. pot plants, 40c. per doz., \$2.00 per 100.

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Mention the Florists' Exchange when writing.



Grafting.

Perhaps the bulk of the roses grown under glass, for cut flowers, are on their own roots, as most growers seem to believe that the grafted plants do not produce any more flowers.

It would be interesting if each grower would try a few plants, and keep a record of blooms cut, counting quality as well as quantity. On most places, where a small number of grafted plants have been tried, the number of buds they produce is never noted, and unless they have made a remarkable growth, they are discarded as of no special value. It is, of course, more difficult to procure good grafted stock, and where only a few are used, it is best to purchase them from some reputable firm.

The manetti is considered the best stock, though a number of other vigorous growers have been tried by some of our foremost exponents of grafted plants. The stocks can readily be grown here, but can be procured cheaper from Europe. When they arrive in the Fall they should be heeled in, in a cool place, where there is no danger of frost and still remain dormant. When wanted they are potted in two and a quarter or two and a half inch pots and placed in a temperature of 40 to 45 degrees till fairly well rooted, when they are ready for use. After potting, it is needless to say, they require a small amount of water, until the roots have started.

It is well to have the stock and the cion of an uniform size as possible; and the operation of grafting should be carefully done, as the more perfect the union the better the future welfare of the plant. The manetti should be cut back as close to the pot as it is convenient to work, by making a slanting cut, at least three-quarters of an inch long, and the cion cut to suit; and if smaller than the stock place it to one side, so that the bark of one fits closely with the other. Tie securely with raffia, as string will cut and injure the graft. The cion should not be in water very long, as if the wood absorbs much water it prevents a good union.

The frame which is to receive the plants should be almost airtight, and so constructed that a temperature of 80 degrees may be easily maintained. The woodwork should first receive a coating of good whitewash, then pack about an inch of moss on the bench. On this place screened ashes, or the moss can be dispensed with and nothing but ashes used. These should be well watered before the plants are put in, so that it will not be necessary to do any watering for three or four days. Keep the frame close, and if the temperature is steadily maintained at from 80 to 82 degrees, they will "take" in a little over two weeks. They should be gradually hardened off by raising the sash which forms the top of the frame about an inch, after five or six days giving more air, until the union is complete, when the plants can be taken out, and placed in a house, staked and tied, to prevent breaking, and receive much the same treatment as other young plants.

PENN.

50,000 TREES At Half Price. First-class Apple, Cherry, Plum. Shrubs, Plants, at wholesale. Peach trees \$10.00 per 1000, freight prepaid anywhere. Baldwin Cherry in colors and Catalogue free.

Seneca Nursery, Seneca, Kansas.

Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Merstham Yellow, White Coombes, Emily Mileham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Dnckham, the cup winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.

Mention the Florists' Exchange when writing.

CAL. PRIVET, one, two and three years; also cuttings, any reasonable offer will be accepted on lots of 5, 100 to carloads. **RIVER VIEW NURSERIES**, J. H. O'HAGAN, Little Silver, N. J. Mention the Florists' Exchange when writing.

CARNATION PLANTS

From 2 inch pots.

Mrs. Fisher, for Summer bloom, strong, \$2.50 per 100. Genevieve Lord, Queen Louise, \$2.50 per 100. Rooted Cuttings of Genevieve Lord, \$1.00 per 100; unrooted 50c. per 100. Cash with order.

WM. KEIR, Pikesville, Md.

Mention the Florists' Exchange when writing.

Manetti Stocks

Just received in splendid condition.

No. 1, 5-10 mm., \$10.00 per 1000; \$95.00 per 10,000.

No. 2, 3-5 mm., \$7.50 per 1000.

JACKSON & PERKINS CO. NEWARK, NEW YORK.

Mention the Florists' Exchange when writing.

Rooted Cuttings of RICHMOND GEM, the best scarlet

CARNATION

to date, \$10.00 per 100; \$75.00 per 1000.

Boston Ferns, 2 1/2 in. pots, \$3.00 per 100. Flowering Begonias, 2 1/2 in. pots, \$2.50 per 100. Heliotrope, 2 1/2 in. pots, \$2.50 per 100. Smilax, 2 1/2 in. pots, \$2.00 per 100. Salvia, 2 1/2 in. pots, \$2.00 per 100. English Ivy, 2 1/2 in. pots, \$2.00 per 100. Lemon Verbenas, 2 1/2 in. pots, \$2.50 per 100. Feverfew, 2 1/2 in. pots, \$2.50 per 100. Asparagus Plumosus Nanaus, 2 1/2 in. pots, \$3.00 per 100. Asparagus Sprengeri, 2 1/2 in. pots, \$2.50 per 100. Variegated Vinca, 2 1/2 in. pots, \$2.50 per 100. Geraniums, Mountain of Snow and Prince Bismark, 2 1/2 in. pots, \$3.00 per 100. Strong Stocky Geraniums, from 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000. S. A. Nutt, Jean Vianin and White Swan. Shasta Daisies 2 1/2 in. pots, strong plants, from selected blooms, \$3.00 per 100; \$25.00 per 1000. Hibiscus, \$2.50 per 100. Periwinkles, \$2.50 per 100.

NATIONAL PLANT CO., Dayton, Ohio

Mention the Florists' Exchange when writing.

Rooted CARNATIONS

Fine healthy Stock

Ready now. Orders booked for future delivery.

White Lawson (5000 ready now)	100	1000
Lady Bountiful	\$7.00	\$60.00
Mrs. M. A. Patten	8.00	50.00
Nelson Fisher	6.00	50.00
Dahin	7.00	60.00
Flamingo	6.00	50.00
Enchantress	3.50	30.00
Boston Market	2.50	20.00
The Queen	2.50	20.00
Mrs. T. W. Lawson	2.00	18.00
Gen. Hacco	2.00	15.00
Morning Glory	2.00	15.00
Mrs. G. M. Bradt	3.00	25.00
Melba	1.50	12.00
Queen Louise	1.50	12.00
White Cloud	1.50	12.00

List of other varieties on application.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as desired.

Bride, Bridesmaid, Golden Gate, from 2 1/2 inch pots, \$12.00 per 100. Killarney and Frau Deegen, from 2 1/2 inch pots, \$15.00 per 100.

OWN ROOT. FINE STOCK.

Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$35.00 per 1000.

GERANIUMS

Double, single and Ivy Leaf varieties. 100 1000 Strong pot plants \$3.00 \$25.00 Strong rooted cuttings 2.00 15.00

VERBENAS

100 1000 Best Mammoth, rooted cuttings \$1.00 \$9.00

CHRYSANTHEMUMS

ROOTED CUTTINGS

Send for catalogue for varieties and prices.

MISCELLANEOUS

Ageratum, Cope's Pet, White Cap.	100	1000
P. Pauline, S. Gurney, L. Bonnet	\$1.00	\$8.00
Achyranthes, four sorts	1.00	8.00
Cannas, dried roots named varieties	2.00	18.00
Cannas, best bedding and fancy sorts	1.00	8.00
Cypripis	1.25	10.00
Fuchsia, double and single	2.00	15.00
Feverfew, double white	1.50	12.00
Heliotrope, light and dark	1.25	10.00
Impatiens Sultan	2.00	15.00
Ivy, German	1.50	12.00
Moeb Vine, true white	2.00	15.00
Salvia, Stolendens and Bedman	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
SMILAX. 2 1/2 in. \$2.50 per 100; \$20.00 per 1000; 3 in. \$3.00 per 100.		
ASPARAGUS SPRENGERI, 3 in. pots, \$6.00 per 100; 3 1/2 in., \$8.00 per 100.		

WOOD BROS., Fishkill, N. Y.

Mention the Florists' Exchange when writing.

CARNATIONS

Novelties of the Season

Variegated Lawson

This variety, introduced by us this season, is sure to meet with popular favor. It is a sport from **Mrs. Thos. W. Lawson**, pure ivory white, with delicate carmine pencilings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, states that he believes this will outbloom the favorite, **Mrs. M. A. Patten**, two to one. For some reason or other, the stem seems to be longer than that of **Mrs. Thos. W. Lawson**, and the flowers are less inclined to burst. It is a beautiful variegated variety, and one that is sure to be in demand on account of its delicate pencilings. It is superb in every respect. Our exclusive purchase of this variety has created a sensation in the daily press of the country.

\$12.00 per 100; \$100.00 per 1000

Fiancee

The Queen of Pink Carnations. In a class by itself. Magnificent flowers. Strictly fancy in every respect.

\$12.00 per 100; \$100.00 per 1000

Cardinal

Bright cardinal, or crimson-scarlet.

\$12.00 per 100; \$100.00 per 1000

Fred Burki

Recommended as an extra free-blooming white variety and a claimant for popular favor.

\$12.00 per 100; \$100.00 per 1000

The Best of Last Season's Novelties and Older Standard Sorts White Lawson

We consider this variety, which we introduced last season, the finest white carnation ever sent out. It has given great satisfaction. When left on the plants until fully developed, the flowers are much larger than **Mrs. Thos. W. Lawson**. Nothing excels it for freedom of bloom, fine keeping qualities and general all-round value. We believe that this will occupy among white carnations the same place that **Mrs. Thos. W. Lawson** does among pinks. **Remember that we are headquarters for it.** Splendid stock ready for immediate delivery.

\$7.00 per 100; \$60.00 per 1000

Daheim

A fine crimson, introduced by us last year, with the style and habit of **Mrs. Thos. W. Lawson**; might be called a **Crimson Lawson**, as it has all the characteristics of that variety as far as

freedom of flowering, habit of growth, etc., are concerned. It has grand, stiff stems, calyx never bursts, and it is a free and abundant bloomer, developing very quickly. We believe this to be the best all-round crimson carnation.

\$6.00 per 100; \$50.00 per 1000

Mrs. M. A. Patten

This grand variegated carnation has given splendid satisfaction.

\$6.00 per 100; \$50.00 per 1000

Lady Bountiful

A magnificent white of last season's introduction.

\$6.00 per 100; \$50.00 per 1000

Enchantress

This magnificent carnation is unequalled for size, beautiful color—light, silvery pink—and freedom of bloom. It brings the very highest market prices and is in great demand.

\$4.00 per 100; \$35.00 per 1000

Mrs. Thos. W. Lawson

The standard dark pink.

\$3.00 per 100; \$25.00 per 1000

Prosperity

A magnificent fancy sort, entirely distinct from others. A sterling variety.

\$3.00 per 100; \$25.00 per 1000

We are also pleased to announce that we have been appointed distributing agent for the sale of

Victory

and that all orders for this variety should be sent direct to us. We are now prepared to book orders for this variety for **delivery Spring, 1906.**

We have watched this carnation for some time, and believe that it is the best scarlet ever offered, with good stems, flowers of the largest size; a magnificent keeper and shipper and an exceedingly free and early bloomer. While the flowers of this variety are of the largest size, and it will rank in the fancy class, its freedom of bloom and general good qualities will make it a bread-and-butter scarlet. There is a great demand for a good scarlet at the holiday time, and the flowers of this variety brought 25 cents each last Christmas, which is an indication of its popularity.

Strong rooted cuttings, delivery next season,
\$12.00 per 100; \$100.00 per 1000

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

CARNATIONS

Rooted Cuttings Now Ready

Eclipse Our 1905 introduction. A pink carnation, lighter in color than Lawson and of a more even and bright shade of pink. No objectionable shading or bleachings. A strong free growth, large flowers on long stiff stems and early and continuous flowering.

Fiancee A most pleasing shade of medium pink. No carnation has ever equaled the number of awards received by this variety.

Cardinal Brilliant scarlet. A great improvement over Estelle.

F. Burki Pure white.

The above four varieties,
\$12.00 per 100; \$100.00 per 1000.

Richmond Gem Scarlet, \$10.00 per 100; \$75.00 per 1000.

In addition to the above we can supply twenty-five of the best standard sorts, varieties that are profitable to grow. Our preliminary Price List will be sent upon application. We are pioneers in the carnation line and our facilities for rooting and handling cuttings are nearly perfect, due to our long experience.

F. DORNER & SONS CO., LA FAYETTE, INDIANA

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Nice clean stock of Enchantress, Nelson Fisher, M. A. Patten, Boston Market, Gov. Wolcott, White Cloud and Mrs. F. Joost. Prices on application.

C. G. VELIE & SON, Marlborough, N. Y. Mention the Florists' Exchange when writing.

WHITE LAWSON

Carnation

Rooted Cuttings, \$5.00 per 100. Mrs. Patten, \$5.00 per 100.

H. F. LITTLEFIELD, Worcester, Mass. Mention the Florists' Exchange when writing.

J. D. THOMPSON
CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty

CARNATION Rooted Cuttings

Par 100	Prosperity	Par 100
Flamingo.....\$5.00	Wolcott.....\$2.00	
Enchantress.....3.00	Harlowardan.....1.50	
Estelle.....2.00	Crana.....1.50	
Lawson.....1.50	Queen Louise.....1.50	
Queen.....1.50	Hill.....1.25	
Boston Market.....1.50	Joost.....1.25	
Her Majesty.....1.50	Special prices on large quantities. Cash.	

SMITH & GANNETT, - Geneva, N. Y. Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

	Per 100	Per 1000
Enchantress.....	\$3.50	\$30.00
Fair Maid.....	2.50	20.00
Queen.....	3.00	25.00
Queen Louise.....	2.00	15.00
Lawson.....	2.50	20.00
Cressbrook.....	2.00	15.00
Challenger.....	2.00	15.00
Maceo.....	2.00	15.00
H. Fenn.....	3.00	25.00
Prosperity.....	2.50	20.00
Geo. M. Bradt.....	3.00	25.00
FIANCEE.....	12.00	100.00

C. WARBURTON, Fall River, Mass.

Enchantress

The most popular and best paying of all Carnations. Large stock of rooted cuttings now ready. \$3.50 per 100; \$30.00 per 1000.

	100	1000
White Lawson.....	\$6.00	\$50.00
Flamingo.....	6.00	50.00
The Queen.....	2.50	20.00

CARDINAL

from 2 in. pots, \$12.00 per 100; ready now.

LARCHMONT NURSERIES
LARCHMONT, N. Y.

CARNATIONS

Selected Rooted Cuttings

CLEAN, HEALTHY STOCK FROM SAND AND SOIL

	per 100	1000
Enchantress.....	\$ 3.50	\$ 30.00
Queen.....	2.50	20.00
Lawson.....	2.00	15.00
Wolcott.....	2.00	15.00
Queen Louise.....	2.00	15.00
Genevieve Lord.....	1.25	10.00
Floriana.....	1.50	12.50
Fiancee.....	12.00	100.00

Careful packing. Stock guaranteed satisfactory in every way.

ROBERT C. PYE, Nyack, N. Y. Mention the Florists' Exchange when writing.

CARNATIONS.

Looking After Rooted Cuttings.

Just as soon as the cuttings have roots that are about one-half inch long they will want to be transferred to the bench or potted off, whichever way you follow. The bench, I think, is better, providing the soil you use comes up in a nice ball. You, of course, should have had your soil in shape some time ago; if not, be sure the frost is all out before planting, and also be sure the soil is moist, but not so wet as to make it lumpy. This holds good with potting soil as well. It will pay you to always have your soil in a place where it will be free from heavy rains and can be handled at any time. Do not use any manure in the soil for young stock. When preparing soil for bench planting you should tramp it somewhat, so as to have it firm, but don't overdo it. Of course, some soil cannot stand this treatment; but you must take into consideration that the object is to have a slow, hard growth.

When you are planting in benches do not rush this work through carelessly, but do it right from the start. You won't need a line to plant the cuttings by, as one ought to be able to make a fairly straight row without. Make a hole in the soil large enough, so as not to squeeze the roots all in a lump. When putting the cuttings in and before placing the soil around the roots shake them slightly, so as to have them spread out as much as possible, and be sure you give them enough room each way, so they will not be crowded. After the breaks have made a good growth, figure on at least two weeks longer than planting out time, as one can never tell when he will be able to plant in the field, and in potting the cuttings you have to be just as careful as when planting in the bench, and press the soil in firm around the cuttings so that they will stand up after being watered in. Of course, you want to plant them firm in the bench as well. Fumigate once a week, and in case they have a slight start, fumigate every night until you are rid of aphids, for, from now on, as the days get brighter the pest will increase. Syringe your cuttings once a week if the soil is dry enough for spiders, but by all means keep them down, for when you put a plant in the field with either of the above pests on it you will be sure to have a bad, unhealthy plant at benching time. Now, a word about insecticides. I have received a sample can of Nico Fumil, and I find that it does everything that the manufacturers claim for it, and find it one of the easiest papers to handle; so if you have a bad case of green fly get a sample of Nico Fumil. It will rid you of them in a short while.

CHAS. KNOPP.

BEECH, O.—Rinaldo Sellers has his greenhouse almost completed.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Mention the Florists' Exchange when writing.

RED LAWSON

Sport from Mrs. Thos. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's away ahead of all the reds. Price, per 1000 \$75.00; per 100 \$10.00. 250 at 1000 rate.

ROOTED CUTTINGS

	Per 100	Per 1000
FAIR MAID.....	\$2.00	\$15.00
QUEEN.....	2.00	15.00
BOSTON MARKET.....	2.00	12.50
LAWSON.....	1.50	12.50
QUEEN LOUISE.....	1.25	10.00
WHITE LAWSON.....	5.00	50.00
MRS. ROOSEVELT.....	1.25	10.00

Satisfaction guaranteed or money refunded.

Quidnick Greenhouses, Anthony P. O., R. I.

J. H. CUSHING, Prop. Mention the Florists' Exchange when writing.

500,000 VERBENAS 60 Varieties

THE LARGEST AND FINEST STOCK IN THE COUNTRY Perfectly Healthy No Rust

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

300,000 CARNATIONS

CRISIS, New Commercial Carnation, \$12.00 per 100; \$100 per 1000

Per 100	Enchantress	Per 100	Per 1000	Dorothy
Mrs. Patten.....\$6.00	.....\$3.00	\$25.00		.....\$1.25
Judge Hinsdale.....4.00	Mrs. Lawson.....2.00	15.00		Wm. Scott.....per
Lady Bountiful.....5.00	Adonis.....2.50	20.00		Queen Louise.....per
Flamingo.....6.00	Harry Fenn.....2.00	15.00		Floriana.....100
Dorothy Whitney.....3.00	Gov. Roosevelt.....1.50	12.00		Lorna.....
Golden Beauty.....3.00	Mrs. Potter Palmer.....1.25	10.00		Eldorado.....\$10.00
Buttercup.....3.00	The Queen.....2.50	20.00		Mrs. Joost.....per
Prosperity.....2.00	Mrs. E. A. Nelson.....1.50	12.00		Flora Hill.....1000
Mrs. J. H. Manley.....2.50	White Cloud.....1.50	12.00		Portia.....

60,000 GRAFTED ROSES

THE FINEST CROWN

Orders booked now for delivery in April, May and June

LIBERTY Rose pots, \$12.00 per 100; 3 1/2 inch pots, \$18.00 per 100

BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN

Rose pots, \$10.00 per 100; 3 1/2 pots, \$15.00 per 100

J. L. DILLON Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

\$12.00 per 100
\$100.00 per 1000
250 at 100 rate

VICTORY

TO BE
DISSEMINATED
1906

A TRUE and brilliant scarlet is what is demanded. See VICTORY and be convinced that it is the freest-blooming Carnation in existence. Never off crop. Has grand stem and does not burst. No grass, every shoot comes to flower. The best shipper and keeper ever introduced. Has demonstrated these qualities at St. Louis, Chicago, Boston and New York Flower Shows, where Certificates of Merit were awarded.

A Bread and Butter Carnation in every sense of the word.

See VICTORY grow before you buy. Do not lose the present opportunity for securing the First Stock.

PLACE YOUR ORDERS FOR ROOTED CUTTINGS OF

WHITE LAWSON.....	\$6.00 per 100	THE BELLE.....	\$6.00 per 100	MANLEY.....	\$3.00 per 100
NELSON FISHER.....	6.00 "	LADY BOUNTIFUL.....	6.00 "	MACEO.....	1.50 "
MRS. PATTEN.....	6.00 "	HARRY FENN.....	2.50 "	CERVERA, variegated.....	2.00 "
ENCHANTRESS.....	3.00 "	GOETHE, light pink.....	2.50 "	LAWSON.....	2.00 "
PROSPERITY.....	3.00 "	GENEVIEVE LORD.....	2.50 "		

Five per cent. Discount for Cash with Orders. Send Your Orders Early.

GUTTMAN & WEBER

52 WEST 29th ST., N. Y. CITY

LYNBROOK, L. I., N. Y.

Address all correspondence to 59 WEST 29th STREET, NEW YORK CITY

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

White		per 100	1,000
Queen.....	2.50	2.00	
Queen Louise.....	2.00	15.00	
Pink			
Nelson Fisher.....	6.00		
Ethel Ward.....	4.00		
Enchantress.....	3.00		
Lawson.....	2.00	15.00	
Fair Maid.....	2.00		
Crimson			
Harlowarden.....	2.50	20.00	
Variegated			
Judge Hinesdale.....	4.00		
Prosperity.....	2.00	15.00	

ENGLISH SELECTED MANETTI STOCK
to 8 mm.....\$12.00 per 1,000
S. J. REUTER, Westerly, R. I.
Mention the Florists' Exchange when writing.

Rooted CARNATIONS Clean and Healthy
Cuttings
Per 100
Mrs. M. A. Patten.....\$9.00
Nelson Fisher.....7.00
Enchantress.....3.00
Walcott, Boston Market, J. H. Manley, Maceo.....2.00
SIDNEY LITTLEFIELD, North Abington, Mass.
Mention the Florists' Exchange when writing.

CALIFORNIA CARNATION CO. Loomis, Cal.

Mention the Florists' Exchange when writing.

Carnation Cuttings

	Per 100	Per 1000
Enchantress.....	\$4.00	\$30.00
Queen.....	3.00	25.00
Fair Maid.....	3.00	25.00
Harry Fenn.....	3.00	25.00
M. A. Patten.....	6.00	50.00
Queen Louise.....	2.00	15.00
Lawson.....	2.00	15.00
Wolcott.....	2.00	15.00
Manley.....	2.00	15.00
Estelle.....	2.00	15.00

Our stock is first-class, and we guarantee our cuttings to be A1 and well-rooted. Orders from parties unknown to us must be accompanied by cash or satisfactory references.

THE LEWIS CONSERVATORIES, MARLBORO, MASS.
W. L. LEWIS
Mention the Florists' Exchange when writing.

MY MARYLAND

The Finest New White for 1906

Awarded First-class Certificate by the American Carnation Society at Chicago, January 25, 1905
Also, at same meeting, the Lawson and S.A.F.

BRONZE MEDALS

ORDER NOW

Delivery Commences January 1, 1906

\$12.00 per 100; \$100.00 per 1000

H. WEBER & SONS
OAKLAND, MD.

ROOTED CUTTINGS READY WHITE LAWSON

\$7.00 per 100; \$60.00 per 1000

ENCHANTRESS, \$4.00 per 100; \$30.00 per 1000

PINK LAWSON, 3.00 " 20.00 "

Send for Catalogue for other varieties

CHICAGO CARNATION CO., Joliet, Ill.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

WHITE			PINK			CRIMSON		
	100	1000		100	1000		100	1000
Vesper	\$5.00		Nelson Fisher	\$6.00		Harlowarden	\$2.50	\$20.00
Queen	2.50	\$20.00	Ethel Ward	4.00		Octoroon	4.00	
Queen Louise	2.00	15.00	Enchantress	3.00	\$25.00	VARIEGATED		
Gov. Wolcott	2.00	15.00	Lawson	2.00	15.00	Mrs. Patten	6.00	
Boston Market	2.00	15.00	Fair Maid	2.00	15.00	Judge Hinsdale	4.00	
SCARLET						Prosperity	2.00	15.00
Flamingo	6.00							

Grafted Roses on Strong English Manetti Stock

Bridesmaid, Golden Gate, Bride, Ivory, Madam Chatenay, \$120.00 per 1000.
Uncle John, La Detroit, Gen. McArthur, \$18.00 per 100.

ASPARAGUS PLUMOSUS NANUS SEED, Greenhouse grown, \$5.00 per 1000.

S. S. PENNOCK, The Wholesale Florist of Philadelphia

Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS

ALL IN FINE CONDITION, WELL ROOTED

Pink	100	1000	Red	100	1000
Mrs. T. W. Lawson	\$1.50	\$12.50	Estelle	\$1.50	\$12.50
Guardian Angel	1.00	9.00	Chicago	2.00	15.00
			Adonis	2.50	20.00
			White		
Light Pink			Flora Hill	1.00	9.00
Enchantress	3.00	25.00	White Cloud	1.25	10.00
Florning Glory	1.50	12.50	Her Majesty	1.50	12.50
Mrs. Higinbotham	1.25	10.00	Crimson		
			Harlowarden	1.50	12.50

WIETOR BROS., 51-53 Wabash Ave., Chicago, Ill.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS	\$12.00	\$100.00	NELSON	\$1.50	\$12.50
CHICAGO WHITE	12.00	100.00	LAWSON	1.50	12.50
RICHMOND GEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	ESTELLE	1.50	12.50
CRUSADER	5.00	45.00	JOOST	1.00	9.00
LADY BOUNTIFUL	5.00	45.00	HIGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
ENCHANTRESS	3.00	25.00	QUEEN LOUISE	1.00	9.00
BOSTON MARKET	2.50	20.00	PERU	1.00	9.00
ADONIS	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

2 1/2 Pot Plants

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	CHATENAY	\$4.00	\$30.00
ROSALIND ORR ENGLISH	25.00	200.00	SUNRISE	4.00	30.00
LA DETROIT	6.00	50.00	KAISERIN	4.00	30.00
LIBERTY	5.00	45.00	BRIDESMAID	3.00	25.00
PERLE VON GODESBERG	5.00	40.00	BRIDE	3.00	25.00
UNCLE JOHN	4.00	35.00	IVORY	3.00	25.00
			PERLE	3.00	25.00

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

PETER REINBERG

51 Wabash Ave., Chicago

Telephone 2846 Central.

Mention the Florists' Exchange when writing.

ESTABLISHED 1870

PATTEN & COMPANY

Carnation Specialists

Novelties and Standard Varieties TEWKSBURY, MASS.

Mention the Florists' Exchange when writing.

MODEL EXTENSION

Carnation Supports

ALSO

Wire Rose Stakes and Tying Wire

160E BROS., Manufacturers, 226 North 9th St. Brooklyn, N. Y.

ROOTED

Carnation Cuttings

All orders filled in rotation.

	Per 100
Mrs. M. A. Patten, Var.	\$6.00
White Lawson	5.00
Flamingo, scarlet	5.00
Athraose, white	5.00
Enchantress	3.00
Queen, white	8.00
Boston Market, white	3.00
Queen Louise	2.50
Lawson	2.00
J. H. Manley, scarlet	2.00
Challenger	2.00

Write for prices on large lots. 5 per cent. discount for cash with order.

JAMES D. COCKCROFT, Northport, Long Island, N. Y.

CARNATIONS

50,000 rooted cuttings; good strong plants, now ready for delivery.

	Per 100	Per 1000
MRS. T. W. LAWSON	\$2.00	\$15.00
WHITE LAWSON	5.00	45.00
ENCHANTRESS	2.50	20.00
MRS. M. A. PATTEN	4.50	40.00
BOSTON MARKET	2.00	18.00

50 at 200 rates, 500 at 1000 rates. Satisfaction guaranteed. Cash with order.

VIOLETS

PRINCESS OF WALES

Unrooted cuttings, ready now, 50 cts. per 100; \$4.00 per 1000.

Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000.

Please place your orders now.

FD. BOULON & SON
SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

Per 100: Flamingo and Indianapolis, \$5.00; Crusader, \$6.00; Fair Maid, \$1.75; B. Market, \$2.00; Queen, \$2.50; Enchantress, \$3.00; Lawson, \$1.35. B. Market and Fair Maid, unrooted, \$1.00. For other varieties write

OTTO BOURDY, Lowell, Mass.

Mention the Florists' Exchange when writing.

CARNATIONS

	Per 100	Per 1000
Enchantress	\$3.50	\$1.00
Queen Louise	2.00	1.60
Hill	2.00	1.60
Harlowarden	1.50	1.60
Boston Market	1.50	1.60
Wolcott	1.50	1.60
America	1.50	1.60

Sticky cuttings that will make fine bushy plants. They will please you. If not return plants and money will be cheerfully refunded. Extra plants to fully pay express charges. Can furnish other varieties at low prices.

A. A. CANNETT, GENEVA, N. Y.

Mention the Florists' Exchange when writing.

Carnations

Unrooted Cuttings of good business varieties. Fair Maid, Boston Market and Queen, \$10.00 per 1000. 250 at 1000 rate. Cash.

STEPHEN CHASE, Nashua, N. H.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Fine healthy stock now ready. Lawson, \$2.50 per 100, \$20.00 per 1000. Enchantress \$3.00 per 100. J. H. Manley \$3.00 per 100. Queen Louise \$2.00 per 100. Gov. Roosevelt \$3.00 per 100. Asparagus Plumosus Nanus, 2 1/2 in. pot, \$3.00 per 100. Cash with order.

JOSEPH TOWELL, Haledon Paterson, N. J.

Mention the Florists' Exchange when writing.

ORDERS BOOKED NOW FOR

CARNATIONS

Flora Hill and Mrs. Joost, 2 in., \$1.25 per 100.

ROSES Ivory and Golden Gate, 2 1/2 in. pots, \$1.50 per 100.

H. ROSSITER,

200 Lexington Ave., JERSEY CITY, N. J.

Mention the Florists' Exchange when writing.

GOOD CLEAN STOCK 75,000 Carnation cuttings, ready for February delivery. 25,000 ready now—some in pots and trays. Flora Hill, Mrs. McGowan, Joost, Queen Louise, Elbon, a fine red. \$1.25 per 100; \$10.00 per 1000. Cash with order, please.
J. H. A. HUTCHISON, Prop.
 LOGUST STREET GREENHOUSES, Oxford, Pa.

Look Here
 CHRYSANTHEMUM STOCK PLANTS

See my advertisement on page 880 of issue of December 3, for varieties and prices, or write me.

CARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$2.00 per 100, \$18.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Harry Fenn, Harlowarden, Prosperity, Fair Maid, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.50 per 100, \$30.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000.

Boston Ferns, from benches, good for 5 in. 6 in., or 7 in. pots, 25c., 35c. and 50c.
JAMES E. BEACH, 2019 Park Avenue, Bridgeport, Conn.
 Mention the Florists' Exchange when writing.

Peter Fisher
CARNATIONS

Ellis, Mass.

Mention the Florists' Exchange when writing.

PROSPECTOR
 RED SPORT FROM MACEO

Color equal to Estelle, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market, producing more blooms to the square foot than any variety now grown.

It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz.

Easy grower, free from disease, and, like its parent, can be planted close, as there is no surplus green, every shoot producing a flower.
 We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

COME AND SEE THE STOCK GROWING
H. W. FIELD, Northampton, Mass.
 Mention the Florists' Exchange when writing.

ROOTED CUTTINGS
CARNATIONS

Prosperity.....	100	1000
Lawson.....	\$2.00	\$15.00
Maceo.....	2.00	15.00
Queen Louise.....	1.50	15.00
Gov. Walcott.....	1.50	15.00
Mrs. Naylor.....	1.50	15.00
Joost.....	1.25	12.50
Eldorado.....	1.25	12.50
Bredt.....	2.00	20.00
Enchantress.....	3.50	35.00
Scott.....	1.25	12.50

Grafted Bride and Bridesmaid Roses, \$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR
 Southport, Conn.
 Mention the Florists' Exchange when writing.

Variegated LAWSON

Sport of Mrs. Thos. W. Lawson. The flower is of the Mrs. M. A. Patten type and can barely be distinguished from it.

Rooted Cuttings
 \$12.00 per 100; \$100.00 per 1000

JOHN REIMELS
 CEDAR LANE, WOODHAVEN, L. I., N. Y.
 Mention the Florists' Exchange when writing.

RED SPORT (OF MACEO) The NEW "BREAD AND BUTTER" Brilliant Red Commercial Carnation

WHAT SOME OTHER PEOPLE SAY ABOUT IT: Washington, D. C., December 19, 1904. 1214 F Street, N. W.

A. B. Davis & Son, Purcellville, Va.
 Gentlemen:—Please make our order for rooted cuttings of **RED SPORT** 2,000 instead of 1,000.

The blooms you sent in to-day were certainly very fine. We have been watching this promising new red for three years, and the more we see of it and the longer we sell it over the counter the better we like it.

We do not make a practice of going in very strong on the new varieties the first year they are sent out, but after seeing **RED SPORT** growing and blooming at your place last Tuesday, we are convinced it is a great Christmas carnation, and an all-around money maker, and we wish to increase our order as stated above.

Yours very truly, A. GUDE & BRO.

A. B. Davis & Son, Purcellville, Va.
 Gentlemen:—Your letter and **RED SPORT** of Maceo came to hand Friday. We waited to see how carnations would keep before writing you.

The color and keeping qualities are the best, and if it blooms as freely as Maceo it is a good one. Very respectfully yours,
 BASSETT & WASHBURN.

Kennett Square, Pa., October 14, 1904.

A. B. Davis & Son, Purcellville, Va.
 Dear Sirs:—Yours 12th at hand and I will be glad to include your **RED SPORT** of Maceo in our list, and believe it will meet with good sale. You may book my order for 2,600 of them to start with. I think you have a good thing and I congratulate you.
 Very truly, WM. SWAYNE.

WHAT WE HAVE TO SAY ABOUT RED SPORT:

THIS New "Bread and Butter" commercial brilliant Red Carnation, now in its fourth year, has the hardy constitution of Gen. Maceo, with a stronger, heavier growth, longer and stiffer stem and larger flower. Growing under the same conditions and in the same house with Flamingo and Estelle, it has produced four times as many flowers as the former and twice as many as the latter. The color is as good as Estelle and the bloom brings as much as does Estelle at its best.

Every flower is of a uniform, brilliant red, perfectly double, with an ideal calyx; in fact, we have never seen a split one. **RED SPORT** is perfectly healthy, an easy variety to grow, an early and continuous bloomer, throwing its heaviest cut and during the Christmas holidays and during the winter months, when red is in demand. **RED SPORT** will keep longer and travel farther than any other red carnation, and will prove a bonanza to growers doing a shipping business. If the scarcity of reds in the market that now exists continues, **RED SPORT** will pay better to the square foot of bench room than any other variety of any color to date.

Every florist who has seen **RED SPORT** growing has placed an order for rooted cuttings, which tells the tale. All our rooted cuttings are sold until January 25. Orders filled in strict rotation from above date on. Prices, 12 for \$1.50; 25 for \$2.50; 50 for \$4.00, postpaid. \$5.00 per 100; \$50.00 per 1000 by express. We guarantee cuttings to be well rooted and to arrive in good condition.

QUEEN LOUISE, the Standard White, \$1.25 per 100, postpaid; or \$10.00 per 1000 by express.
A. B. DAVIS & SON, Carnation Specialists, Purcellville, Va.

Mention the Florists' Exchange when writing.

THE ONLY WHITE CARNATION (Tried 3 years and not found wanting!) **"THE QUEEN"** **CARNATIONS**

Rooted cuttings, \$2.50 per 100; \$22.50 per 1000.
 Unrooted cuttings, \$1.50 per 100; \$12.50 per 1000.

Rooted Cuttings Now Ready
 Send for price list of all the new and standard sorts.

HENRY EICHHOLZ, Waynesboro, Pa.
 Mention the Florists' Exchange when writing.

WILLIAM SWAYNE, Box 226, Kennett Square, Pa.
 Mention the Florists' Exchange when writing.

THE BRIDE

A free bloomer and a good keeper, is the most profitable Carnation we are growing.

Price \$6.00 per 100; \$50.00 per 1000.

PHYLLIS The new light Pink Carnation of the Daybreak type.

Price \$12.00 for 100; \$100.00 for 1000
 Also all the Newest and Best Carnations at Advertised Rates.

JOHN N. MAY, Summit, N. J.
 Mention the Florists' Exchange when writing.

WM. PENN

READY NOW. NO WAITING.

A pleasing shade of pink, on a stiff, wiry stem. Growth clean and upright, no useless foliage. Flowers large enough for all ordinary purposes. Will Produce More Flowers per square foot Than Any Carnation Now Grown.

Worth growing by the thousand, but rather than have you miss trying it, I will mail, free of charge, 25 rooted cuttings for \$2.50.

\$10.00 per 100; \$75.00 per 1000; 250 for \$18.75
 Send for List of Other Varieties.

Queen Louise and Lillian Pond at \$10.00 per 1000.
 Floriana and Harry Fenn at \$12.50 per 1000.

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

ROOTED
Carnation Cuttings

Mrs. M. A. Patten.....	Per 100	Per 1000
Prosperity.....	\$5.00	\$40.00
Fair Maid.....	2.50	15.00
Mrs. T. W. Lawson.....	2.50	15.00
Mrs. Nelson.....	2.50	15.00
Harlowarden.....	2.50	15.00
Harry Fenn.....	2.50	15.00
The Queen.....	2.50	15.00
Queen Louise.....	2.00	10.00

Standard Greenhouses, NORWOOD R. I.
 Mention the Florists' Exchange when writing.

Not Too Early to Buy CANNAS

We have a fine lot of **THE EXPRESS**, the Gold Medal Winner, either dormant or started. Purchase now and double your stock before Spring.
 This Future Dwarf Crimson Bedder will be in Heavy Demand.
 \$1.00 per doz.; \$6.00 per 100.

CHRYSANTHEMUMS ARE OUR HOBBY.

Just as good, if not better. We can also supply the best from other raisers and abroad. Earliest Delivery on the Leaders, such as **FIANCEE, FRED BURKI, CHICAGO WHITE, PHYLLIS, THE CARDINAL** and **ECLIPSE**, \$2.50 per doz.; \$12.00 per 100. **RICHMOND GEM, RED LAWSON** and **WM. PENN**, \$2.00 per doz.; \$10.00 per 100.

GERANIUMS **OROSA**, the Double **MRS. E. G. HILL** and **SNOW QUEEN**, the Best Single White Bedder, \$2.00 per doz.; \$15.00 per 100. Ready now.

BEGONIA REX **SEVEN NEW**, beautiful and distinct varieties.

OUR CATALOGUE FOR 1905 DESCRIBES ALL.

NATHAN SMITH & SON, Adrian, Mich.

Mention the Florists' Exchange when writing.

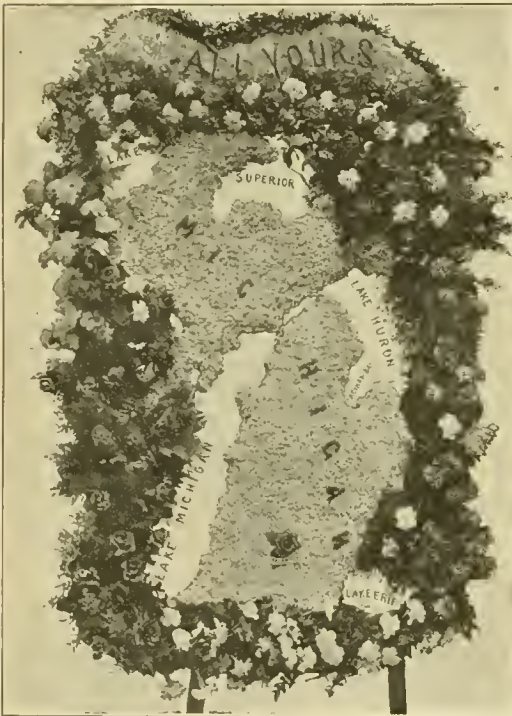
The Retail Trade

DOINGS OF WASHINGTON (D. C.) FLORISTS.—

The President and Mrs. Roosevelt gave a reception to the diplomatic corps on the twelfth inst., when the White House was decorated with azaleas, ferns and camellias. Mrs. Roosevelt carried a bouquet of the Killarney rose; the bouquets carried by the Cabinet ladies were of lily of the valley, Roman hyacinths and violets, Enchantress carnations and Souvenir du President Carnot roses.

Gude Brothers had a large dinner decoration at the Arlington Hotel, given in honor of the architects who have held their annual meeting in Washington this year. They used 2000 white carnations, 2000 pink carnations, 4000 lily of the valley, 400 cypripediums and 400 American Beauty roses; the dinner was given at seven tables to seat twelve each and five tables seating twenty each. The centerpieces were made of carnations, lily of the valley and cypripediums. The room was elaborately decorated with Southern smilax and American Beauty roses. No plants were used. The decoration was one of the finest that has ever been done at this celebrated hotel.

J. H. Small & Sons had the decoration for the Bachelor's Ball, at the New Willard. The ballroom and reception rooms were decorated with palms,



STATE OF MICHIGAN IN FLOWERS

Artists, A. Gude & Bro., Washington, D. C.

(See Page 36, Issue of January 14, 1905.)

ferns and Southern smilax. The floral feature, which consisted of the choicest flowers, was a sight worth going a long way to see. This firm also had a large decoration at Towns's Mansion, on Thursday evening, when American Beauty, lilacs and orchids were prominent features.

George Shaffer has had a decoration each day during the week, which kept him very busy.

Mayberry & Hoover had several decorations on which called for a large number of roses, especially Bridesmaid.

Z. D. Blackstone seems to have a monopoly on the wedding decorations. He had several on last week; some of them called for elaborate decorations at the church. Lily of the valley and violets were used for the bridal bouquets and Bride roses for the Bridesmaid.

F. H. Kramer has been very busy with funeral work.

J. L. Loosé has a fine display of azaleas and cyclamen in his store windows.

J. R. Freeman is sending in some fine lilacs and violets from his Brightwood place.

N. Studer has a fine lot of small palms, pandanus and dracenas ready for the trade; he also has a large stock of roses and bedding plants, which will be ready for delivery in the early Spring.

The excavations for the new buildings of the Agricultural Department are progressing as rapidly as the weather will permit, and from present prospects building will be ready to be commenced as soon as the severe weather shows signs of breaking.

M. C.

Customs House Decisions.

Chip Baskets.—In the protests of N. F. McCarthy & Co. against the assessment of duty by the Collector of Customs at the port of Boston, heard before Board 1, January 16, 1905, the following opinion was rendered by McClelland, G. A.: Three items of baskets, classified as manufactures of willow under paragraph 206, tariff act of 1897, were held, on the authority of Abstract 149, to be dutiable as manufactures of chip under paragraph 449, as claimed by the importers.

Preserved Leaves—Dyed Moss.—In the protests of Carl Netschert against the assessment of duty by the Collector of Customs at the port of Chicago, heard before Board 1, January 12, 1905, the following opinion was rendered by McClelland, G. A. Certain leaves preserved in their natural state by dipping in a chemical solution were held, on authority of G. A. 5800, to have been properly classified under paragraph 425, tariff act of 1897, as ornamental leaves. Certain dyed moss was held, on authority of Abstract 2889, to have been properly classified as an unenumerated manufactured article under section 6 of said act.

Seizure and Fine for Fraudulent Entry—Duty.—Where goods are seized for fraudulent or false entry under section 9, act of June 10, 1890, and released upon the payment of a fine equal to the amount of the duty, the importers are not thereby relieved from the payment of the duty. The fine is a penalty incurred by reason of a violation of a law. The duty accrues under the law by the act of importation. They are separate and distinct and bear no relation to each other.

Value Upon Which Ad Valorem Duty Should Be Assessed.—It is the final action of a duly authorized appraising officer which fixes the dutiable value of imported merchandise. The collector is as much bound by this action as are the importers. In liquidating an entry of merchandise subject to ad valorem duty, the collector must ascertain the amount of duty by applying the rate which the law provides to the value as stated in the invoice, unless the same is raised upon entry or by an appraising officer and then to the value as stated in the entry or in the final appraisalment.

The United States Circuit Court, Southern District of New York, December 22, 1904, decided as follows:

Illegal Reappraisal—Failure to Examine Merchandise.—In a reappraisal of imported merchandise by a single general appraiser or a board of three general appraisers, under section 13, customs administrative act of June 10, 1890, it is not enough to inspect the examination packages covered by section 2901, Revised Statutes, which requires that at least one package of every invoice and one package at least of every ten packages of the merchandise shall be sent to the public stores for examination and appraisalment. Unless all of the goods under reappraisal, or samples representing every variety thereof, are present before the general appraisers in such proceedings the reappraisalment is invalid.

Same—Dutiable Value.—Where a reappraisalment by a general appraiser or a board of three general appraisers is invalidated by failure of the general appraiser or of the board to have produced before them and to examine all the different varieties of the merchandise in question, or samples thereof, duty should be collected on the basis of the value stated by the importer on entry, and not on that found by the local appraiser, even though the appraisalment by that officer were valid, if it appears that during the pendency of the reappraisalment proceedings the importers sought and were denied permission to produce evidence equivalent to the presence of the actual samples, though neither the merchandise itself nor actual samples therefrom could have been produced.

GRAPES UNDER GLASS.

There are many varieties of grapes adapted to growing under glass, but the best, and those that will find the readiest sale are to be found in the Muscat family. Every one who is acquainted with the Muscat grape will understand why the demand is brisk; the quality is far superior. Some may say the Muscat family are a little more difficult to bring up to the high finish necessary to make them appreciated; I would say that a poorly finished bunch of Muscats is not far in advance of the Sweetwater varieties.

What is the cause of so many poor Muscats? In going around the different fruit-growing establishments you will generally notice Muscat grapes under the same roof with other varieties. I have seen good Muscats produced in this way, but to make a success they certainly should have a house to themselves. Take, for instance, a house of Muscat of Alexandria, which is the most satisfactory of them all—it is worthy of a compartment by itself, and I am sure the results will then be satisfactory, providing the necessary details are attended to. Supposing we plant Muscat of Alexandria with Black Hamburg, what is the result? The Muscat will come into blossom just as the other variety is set; to then treat one variety as it should be is a damage to the other to a certain extent. Muscat of Alexandria is the most profitable of this family, but not the finest in flavor by any means.

I cannot help say a word for a noble grape. I refer to Canon Hall Muscat; for size of berry and richness of flavor, to my mind it has no equal. Its poor setting qualities, however, kill it. If we could but find

an approved method of setting this variety, what a grape it would be for appearance on the dinner table, as well as for its agreeableness to the palate!

In regard to Muscats setting, there is just as much damage done in keeping the atmosphere too dry as there is in keeping it too moist. Judgment must be used in this respect. Some years ago, or when I first started to grow grapes in this climate, our Muscats did not set satisfactorily. The following season I kept more moisture in the house, with the result that I obtained a good set of fruit. I presume quite a number who handle forcing fruits here received their first lessons on the other side of the Atlantic. The atmosphere there is more moist, yet it would be a mistake to damp a grapery when in bloom if the vents were closed. Every bright day, when there is air on, damp down once a day, say about 10 to 11 a. m.; this is beneficial rather than injurious. Muscat grapes, after they are fairly started, will enjoy five degrees higher temperature than other varieties. Right here is sufficient reason for growing them alone.

Each and every one knows best when his fruit is most in demand, but when there is call for a continuous supply if one house is started the middle of December, a good time to start a second would be the first of February; these latter would follow the early house nicely. It is not necessary for me to go into details here as to topdressing borders, etc., as what was good for the early house also holds good for others; still, in starting up a fruit house be sure the borders get a thorough soaking. Naturally, during the winter, the borders get fairly dry, and it takes considerable water to thoroughly wet them through. It is not always advisable to trust to guesswork, and the borders, after being watered, should be examined to make sure they have been thoroughly moistened. I am confident there have been more failures in fruit growing through not giving enough water than through having given too much. There is not much danger of overwatering a fruit border



FLORAL SHIP OF STATE

Presented to Mayor Schoenthal of Orange, N. J.

Artist, Hale; Photo by John McGowan

when properly supplied with a good drainage. It is not my intention at this time to go into the construction of borders; later I hope to give my views on the subject. Without question, it is a very important item in fruit growing.

Speaking of Muscat grapes, another variety comes to mind worthy of mention, namely, Madresfield Court Black Muscat. I have grown this variety for the past ten years fairly successfully in a late grapery, but just at the period of coloring, or as they begin to ripen, no moisture must lodge on the benches, or the berries will be sure to split; carefulness at that period will overcome the difficulty. WM. TURNER.

[Note. A fine illustration of Muscat of Alexandria, grown by Wm. Turner, was printed in The Florists' Exchange, issue of Dec. 17, page 745.]

Ship of State in Flowers.

The floral ship illustrated was made up in a few hours, at short notice, by Hale, florist, Orange, N. J. It was filled with Bridesmaid roses, while the base was composed of stevia and carnations, and was presented to the new Mayor, Isaac Schoenthal, at his inauguration on January 2. There were horse-shoes and baskets without number, but the ship pictured received the most attention for its novelty and appropriate symbolism, as well as beauty. For the photograph, from which our illustration was made, we are indebted to John McGowan, Orange, N. J.

LIST OF ADVERTISERS

Table listing advertisers and their page numbers, including Acheson L. W., Allen J. K., Amer. Wooden Ware, etc.

Contents.

Table listing contents and their page numbers, including AMERICAN CARNATION SOCIETY, Report, 14th Annual Meeting, etc.

INDEX TO STOCK ADVERTISED

Table listing plants, seeds, bulbs, flowers, and miscellaneous items with their respective page numbers.

CATALOGUES RECEIVED.

W. B. LONGSTRETH, Gratiot, Ohio.—Seed annual and bargain catalogue. T. R. WATSON, Plymouth, Mass.—Trade List of Nursery Stock; a very complete assortment. JAHONNES RAFN, COPENHAGEN, Denmark.—Catalogue of the Scandinavian Tree Seed Establishment. S. J. BALDWIN, Seneca, Kan.—Descriptive catalogue of Fruit and Ornamental Trees, Evergreens, Roses, Small Fruit Plants, etc. HASKELL AVENUE FLORAL COMPANY, Dallas, Tex.—Illustrated Catalogue of Plants for the Southern Planter. J. F. NOLL & CO., Newark, N. J.—Illustrated Catalogue of Garden and Flower Seeds, Supplies, Etc., with an interesting list of specialties. W. ATLEE BURPEE & CO., Philadelphia.—Wholesale Price List for Market Gardeners and Florists of "The Best Seeds That Can Be Grown." GEORGE H. MELLEN COMPANY, Springfield, Ohio.—Illustrated Catalogue of Plants, Bulbs, Seeds, Small Fruits, etc. HENRY SAXTON ADAMS, Jamaica Plains, Mass.—For 1905 he issues "The Garden," a neat little green book, containing a good list of flower and vegetable seeds. J. M. PHILLIPS' SONS, Pittsburg, Pa.—Illustrated Seed Annual, 1905. BAUR & SMITH, Indianapolis, Ind.—Illustrated Descriptive List of Carnations, including the firm's new seedlings. COLE'S GARDEN ANNUAL, 1905; Cole's Seed Store, Pella, Iowa.—Illustrated Catalogue of Vegetable, Farm and Flower Seeds, Plants, Tools, etc. CALIFORNIA ROSE COMPANY, INC., Los Angeles, Cal.—Illustrated Descriptive Catalogue of Field-grown Own-root Roses. FRANK ELMER CONINE, Stratford, Conn.—Catalogue of Hardy Roses, Vines, Flowering and Other Shrubs, Hardy Perennials, Trees, Etc. FRANK BANNING, Rulsman, O.—Descriptive Illustrated Circular of New Pink Seedling Gladiolus. WOOD, STUBBS & CO., Louisville, Ky.—List of Specialties in Grass Seeds for Lawns. CALIFORNIA CARNATION COMPANY, Loomis, Cal.—Price List of Burbank's "Phenomenal" Red Raspberry. D. LANDRETH SEED COMPANY, Bristol, Pa.—This catalogue embraces 64 pages and cover. GARDEN AND FARM ANNUAL, 1905, Ratekin's Seed House, Shenandoah, Ia.—Being a Catalogue of Farm, Garden and Flower Seeds, Nursery Stock, etc. HARRIS' RURAL ANNUAL, Joseph Harris Company, Moreton Farm, Coldwater, N. Y.—Catalogue of Farm, Garden and Flower Seeds, Plants, Small Fruits, etc. THE STORRS & HARRISON COMPANY, Palmsville, O.—Illustrated Catalogue of Vegetable and Flower Seeds, Plants, Hardy Ornamental Shrubs and Trees, Hardy Perennials, Fruit Trees, etc.

venir de Pierre Notting, clear yellow for a base, with shadings of apricot, nicely edged with carmine-rose, Marechal Niel X Maman Cochet. The offerings in the various departments are extensive and complete, all going to form a very interesting catalogue. CONARD & JONES CO., West Grove, Pa.—Illustrated Catalogue of Plants, Bulbs, Small Fruits, etc. S. J. BALDWIN, Seneca, Kan.—Descriptive catalogue of Fruit and Ornamental Trees, Evergreens, Roses, Small Fruit Plants, etc. HASKELL AVENUE FLORAL COMPANY, Dallas, Tex.—Illustrated Catalogue of Plants for the Southern Planter. J. F. NOLL & CO., Newark, N. J.—Illustrated Catalogue of Garden and Flower Seeds, Supplies, Etc., with an interesting list of specialties. W. ATLEE BURPEE & CO., Philadelphia.—Wholesale Price List for Market Gardeners and Florists of "The Best Seeds That Can Be Grown." GEORGE H. MELLEN COMPANY, Springfield, Ohio.—Illustrated Catalogue of Plants, Bulbs, Seeds, Small Fruits, etc. HENRY SAXTON ADAMS, Jamaica Plains, Mass.—For 1905 he issues "The Garden," a neat little green book, containing a good list of flower and vegetable seeds. J. M. PHILLIPS' SONS, Pittsburg, Pa.—Illustrated Seed Annual, 1905. BAUR & SMITH, Indianapolis, Ind.—Illustrated Descriptive List of Carnations, including the firm's new seedlings. COLE'S GARDEN ANNUAL, 1905; Cole's Seed Store, Pella, Iowa.—Illustrated Catalogue of Vegetable, Farm and Flower Seeds, Plants, Tools, etc. CALIFORNIA ROSE COMPANY, INC., Los Angeles, Cal.—Illustrated Descriptive Catalogue of Field-grown Own-root Roses. FRANK ELMER CONINE, Stratford, Conn.—Catalogue of Hardy Roses, Vines, Flowering and Other Shrubs, Hardy Perennials, Trees, Etc. FRANK BANNING, Rulsman, O.—Descriptive Illustrated Circular of New Pink Seedling Gladiolus. WOOD, STUBBS & CO., Louisville, Ky.—List of Specialties in Grass Seeds for Lawns. CALIFORNIA CARNATION COMPANY, Loomis, Cal.—Price List of Burbank's "Phenomenal" Red Raspberry. D. LANDRETH SEED COMPANY, Bristol, Pa.—This catalogue embraces 64 pages and cover. GARDEN AND FARM ANNUAL, 1905, Ratekin's Seed House, Shenandoah, Ia.—Being a Catalogue of Farm, Garden and Flower Seeds, Nursery Stock, etc. HARRIS' RURAL ANNUAL, Joseph Harris Company, Moreton Farm, Coldwater, N. Y.—Catalogue of Farm, Garden and Flower Seeds, Plants, Small Fruits, etc. THE STORRS & HARRISON COMPANY, Palmsville, O.—Illustrated Catalogue of Vegetable and Flower Seeds, Plants, Hardy Ornamental Shrubs and Trees, Hardy Perennials, Fruit Trees, etc. One of this well known firm's specialties is Roses and a very pretty cover design is formed by flowers of the new hybrid tea rose Olivia, a seedling of Baldwin (Helen Gould) and General MacArthur, deep rose color; Intensity, crimson scarlet, a cross between Grusa An Tepitz and General MacArthur; and Sou-

FOUNDED IN 1888



A Weekly Medium [of] Interchange for Florists, Nurserymen, Seedsmen and the Trade in general

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Copy must reach this office Thursday morning to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

Fourteenth Annual Meeting A. C. S.

The proceedings of this meeting will be found spread out in very complete detail on pages 102 to 110 of this issue. That it was as successful as any of its predecessors, perhaps even more so, is self-evident. The meeting was largely attended by representative growers, the contest for prize awards was keen, the proceedings were lively, and with hotel, hall and exhibition all under one roof, nothing had been left undone by those most hospitable of hosts, the Chicago Florists' Club, to insure absolute success.

Without doubt this society, so triumphant in its onward march, so progressive, and, above all, so intelligently enthusiastic, has been the means of placing hundreds of thousands of dollars in the pockets of our carnation growers since the inception of its well-directed career, and its future seems well assured.

That kindred societies may, out of the history of the A. C. S., take lessons for the future, receive courage of heart and resolve henceforth to go out and conquer, each in their own specialized field, is the sincere and hearty wish of The Florists' Exchange.

Judicious Advertising.

Probably at no other period since the beginning of the horticultural industry in America has the trade been subjected to greater importunity for advertising business than it is to-day. This, of course, is the natural outcome of the increase in the number of periodicals devoted to the interests of the craft. That it is having its influence—a detrimental one, alas!—is apparent. Several firms having come to the conclusion that they cannot afford to patronize the whole list of horticultural periodicals, have decided to withdraw their business from all, for "fear of giving offence" to others should only one or two be selected in which to advertise. This kind of action will inevitably prove more harmful to the advertiser himself than to the papers ostracised.

And, at the same time, it is an erroneous view to take of the matter. While all the trade journals now published must, of necessity, seek their clientele in the same field, there are those the circulation of which must be larger than the others, the returns secured from which are better than from the others. This fact can easily be ascertained by a fair test.

It certainly is not good judgment to advertise at a loss. Neither is it a good business principle to allow sentiment to enter into any part of our commercial dealings, and it shows a poor appreciation of the moral stamina of the publishers of our trade papers

when any advertiser is influenced by the belief—a purely imaginary one, we feel sure—that either an advertiser or his wares would be "knocked" by a paper with which he did not consider it profitable to place his business.

THIS WEEK'S SUPPLEMENT.

Acer Polymorphum—Common Japanese Maple.

Every year sees an increased interest taken in the many lovely forms of Japanese maples, the blood-leaved, golden, variegated, and the several cut-leaved kinds, some of the latter being of the blood-leaved variety. Before us, in the illustration, is the parent of many of these beauties. It is the typical form of polymorphum. The average customer of a nurseryman will desire the sorts with colored foliage, but if any of them should read this, and to the nurseryman himself, I would say, do not overlook the polymorphum. The foliage, handsomely divided, is attractive all Summer long, and when the last weeks of Autumn come it is of more gorgeous color than any of the others have shown all the season through. With the advent of cold nights and the ending of the functions of the leaves, there comes to them a vivid scarlet, which is kept up until the leaves drop. The blood-leaved variety does this, too, to some extent, but for Autumn effect, plant the Acer polymorphum.

There is a great difference in the appearance of this maple as seen in different positions. The illustration represents a beauty, growing at Chestnut Hill, Pa. It may have been pruned, but we do not think so, but believe it to be its natural growth. At first sight these Japanese maples impress one as resembling the English field maple, campestre, and they do in a general way, but the leaves of the Japanese are more finely divided, smoother, and the divisions more pointed.

This is the maple used as a stock for the various beautiful varieties spoken of. They are both grafted and inarched on it. Grafting is done in early Spring and inarching through the Summer months. The stocks themselves, the polymorphum, are increased by seeds, but as there are not many seeds in the market from trees here, the custom is to buy them; and their long journey here from Japan is too much for them when sent in a way not to preserve them moist, and such seeds rarely grow, nor will any maple seeds when let dry out. It is, therefore, better practice to buy the stocks which importers offer. These various Japanese maples are rarely seen in our country above a bush size, but in time larger ones will be seen, as in their native land they become small trees, and the one illustrated promises to make a good height.

JOSEPH MEEHAN.

OUR ILLUSTRATIONS THIS WEEK

Illustrations of the subjects herewith described will be found on pages 101 to 108

Carnation Lieut. Peary.

This variety is a pure snow white, highly fragrant, well built up in the center, and of fine form. The flowers average three inches in diameter and are carried on long, stout stems. It is an excellent keeper and the plants are strong and vigorous, commencing to flower early in Autumn and continuing throughout the season. Originated by C. W. Ward, Cottage Gardens, Queens, N. Y.

Awarded Certificate of Merit, with 88 points, at Chicago, this week.

Robert Craig.

This is an ideal Christmas carnation, a scarlet of the same shade of the holly berry and an easy grower. The flowers come on extremely long stems and are carried perfectly upright. It is a good keeper, excellent in form, and is classed as the largest and best fancy commercial scarlet variety ever before introduced. Originated by C. W. Ward, Cottage Gardens, Queens, N. Y.

Awarded Certificate of Merit, with 88 points, at Chicago, this week.

Victory.

A brilliant scarlet variety, easy to grow, and a free bloomer; flowers average three inches or more, and are borne on long stems. The plants have a vigorous habit, and produce freely all through the season. Originated by J. Sakowich, and disseminated by Guttman & Weber.

The distributing agency for Victory has, we understand, been secured by F. R. Pierson Co., of Tarrytown.

Mrs. W. L. Lewis.

This is a pure white flower, three inches in diameter, and carried on a long, stiff stem; it is a good keeper, a great producer, and does not burst the calyx. Originated by W. L. Lewis, Marlboro, Mass.

Phyllis

This is a new light pink carnation, a true Daybreak color, which originated with W. N. Rudd, of Mount Greenwood, Ill. It is described as being a free bloomer and a good keeper. The Committee of Award of the

New York Florists' Club, after inspecting the variety growing at Summit, N. J., recommended that the club grant its certificate of merit therefor. Phyllis is being introduced by John N. May, Summit, N. J.

Flamingo

The accompanying photograph of a bench of the scarlet carnation Flamingo, photographed January 5, 1905, illustrates the productiveness of this variety. This same center bench produced a heavy cut for Christmas and again for New Year's, and five days later was again a mass of bloom. L. E. Marquisee, of Syracuse, N. Y., the introducer of Flamingo, has not given the plants any feeding to date, so the results obtained are not the outcome of any special treatment.

J. B. B.

Variegated Lawson

(Photographs and description by F. R. Pierson Co., Tarrytown, N. Y.)

Variegated Lawson is a sport from Mrs. Thos. W. Lawson. It is pure ivory white, with delicate carmine pencillings, almost the exact shade of Mrs. M. A. Patten, with the true Lawson habit. From what we have seen of it, we consider the stem of Variegated Lawson considerably longer than that of Lawson, for some reason or other. The flower is not so much inclined to burst as the true Lawson.

John E. Haines

The John E. Haines carnation has been grown four years. It is an early, free and continuous bloomer, flowering from October to July, keeping its good color and size of flower—3½ inches and over. The stems are stiff and long; in the month of March they attain a length of three feet. The stalks produce no extra grass. All shoots will make flowers. The carnation will be disseminated in 1906. The John E. Haines carnation has received the following awards: A certificate of merit, from American Carnation Society at Detroit; diploma at Lenox, Mass.; certificate of merits each at Madison, N. J.; Red Bank, N. J.; Bay Shore, L. I.; Orange, N. J.; New York, N. Y. The seedling was raised by John E. Haines, Bethlehem, Pa.

White Lawson

(Photographs and descriptions by F. R. Pierson Co., Tarrytown, N. Y.)

Nothing need be said in praise of White Lawson except to state that it is a true sport of Mrs. Thomas W. Lawson and as good as that variety in every respect, and has all its remarkably free-blooming qualities, but is pure white. No extended description is necessary; its value will appeal at once to every carnation grower. This originated with Mr. Charles H. Allen, Floral Park, N. Y., one of our most expert growers, and recognizing at once its great value, we purchased his entire stock.

Imperial

The Imperial carnation is now being grown in its fourth year, and is a fancy and also a commercial variety. It is a strong grower and a continual producer of flowers, average size, 3½ inches, with stems in November 3 feet long, and in Spring as much as 4 feet long. The color is a very delicate pink, variegated with Lawson Pink. The growth is on the Lawson type, but stronger.

The Imperial carnation received the following awards in the Fall of 1904: Diploma at Lenox, Mass.; certificates of merit each at Madison, N. J.; Red Bank, N. J.; Bay Shore, L. I.; Orange, N. J.; New York, N. Y.; Providence, R. I.

This seedling was raised by John E. Haines, Bethlehem, Pa., to whom we are indebted for photographs and descriptions.

Daheim

(Photographs and descriptions by F. R. Pierson Co., Tarrytown, N. Y.)

Daheim was raised by W. C. Russell, superintendent for C. F. Dieterich, Esq., Millbrook, N. Y., from whom we purchased the entire stock. The flowers are of mammoth size, averaging fully three and one-half inches in diameter, of splendid shape, compact, well built up in the centre, and possessing magnificent keeping qualities. It never shows the slightest tendency to go to sleep. The color is that desirable shade of crimson called the Harvard color—crimson, slightly shaded with maroon—wonderfully brilliant in the sunlight or artificial light. The flowers are also very fragrant, having a decidedly strong clove fragrance. The habit of the plant, foliage, freedom of bloom, stem, etc., are after the style of Mrs. Thomas W. Lawson; in fact, it might be called a crimson Lawson, as it has all the characteristics of that variety as far as freedom of flowering, habit of growth, foliage, etc., are concerned. It has a grand stiff stem, holding the flowers perfectly erect, the calyx never bursts, it is a very free and abundant bloomer and develops very quickly.

Begonia Tunford Hall

The accompanying photographs represent a house of Tunford Hall begonia and a specimen plant of same at J. A. Peterson's, of Cincinnati. For the benefit of those who have never seen this begonia, I will say that the color is that of a crab-apple blossom. Mr. Peterson is an expert grower of Begonia Gloire de Lorraine, and he now has in the sand 56,000 cuttings of both that variety and Tunford Hall. These plants Mr. Peterson has sold in all the large cities of the United States, for Christmas, and he also sells the leaf-cuttings to some of the largest growers in the trade.

E. G. GILLET.



SINGLE PLANT OF BEGONIA TUNFORD HALL.
Grower, J. A. Peterson, Cincinnati, Ohio.

secretaryship, or more work might be done, easily, within the year. It has always seemed to me, in the case of the S. A. F., unwise to turn a good man out of office, and ask him to make suggestions, in his annual address, for some other fellow to develop and consummate or not, as he felt inclined. Then, too, the S. A. F. O. II. might do more of this necessary work at its conventions by weeding out the president's reception, the bowling day—which could be changed to night—and other accessories that are prodigal of time—when there is so much that is necessary to be done.

But why should Mr. Vaughan seek to place the supervision of plant nomenclature in the hands of a national council? For he says: "It is well known that the Society of American Florists, through its nomenclature committee, acted as a great check to the reckless seedsmen or plantsmen, who some years ago were sending out varieties under false names. Some such action in a national way is now needed." I had always understood that the work of the S. A. F. along nomenclature lines was not circumscribed, but national; and if the society was capable of doing effective and efficient service in the past, why not again? Re-establish your nomenclature committee, Mr. President, and see to it that they work—as hard as the peony committee, for instance? The S. A. F. should be the Ultima Thule of all horticultural interests in America. We need no council to supervise us, as long as we have a good executive committee, and other working committees, provided, of course, the appointments on these are made on account of worth and capability, and are not merely complimentary.

JOB.

will not be grown again. The same may be said of Governor Wolcott; and Queen will be discarded on account of its having too many second-class, or imperfect flowers. By far the best white in the whole establishment is the new seedling, Mrs. W. L. Lewis, which has just been brought to public notice for the first time. It is a cross between Mary Wood and Flora Hill. The illustration shows a bench as it appeared at New Year's and represents fairly well what sort of a variety it is for the Midwinter or short day season. So far as the writer could see, there was not the slightest appearance of bursting calyces, something that may be said of few whites at this season. Its color is pure white, and its habit of growth and form of flower are good, and there is every reason for its becoming one of the leading white carnations. It might be mentioned that the approximate cut from 1,200 plants for the two weeks just ended was 1,800 blooms—not very bad for the dull days of the year.

Mr. Lewis owes much of his success not only to his able management as a grower, but to the shrewd advertising of his business. He is continually distributing among his customers small souvenirs which contain cuts of different views of his place: now it will be his delivery wagon (which, by the way, is one of the best up to date we have seen); next it will be a partial view of his greenhouses; then again it will be a view of a house of carnations, and so on. In addition to this, Mr. Lewis says the best advertising medium he has found is The Florists' Exchange.

Mr. Lewis disposes of his wholesale products (cut blooms) through Welch Bros.' Market, Boston.

J. W. DUNCAN.

Reflections on Current Topics.

MR. EDITOR: At this period, when "Dread Winter spreads his latest glooms, And reigns tremendous o'er the conquered year," it feels particularly comfortable to a patriarch like myself to have so many bouquets thrown at him. My friend and co-scribbler, Arthur H. Ewing, of Canada, says he finds that my reflections contain "horse" sense—some times, and afford him amusement at others. Does that now take me out of the "donkey" class to which your contemporary and John Birnie have so ruthlessly consigned me? But why, oh, why, do my critics continue to class me in the equine category?

Mr. Ewing also asks if I have ever run a trade paper on small capital? Never; nor would I. Had I brains enough to start and operate a horticultural trade paper, I should go out among and solicit the optimistic horticultural capitalists—and run the paper on their capital.

Then, William Falconer insinuates that I am a gardening-paper-editor failure—like himself, too. An erroneous deduction. He should not, though, class himself with the failures among horticultural paper editors. He was, in my humble opinion, a genuine success as such; but he evidently operated before his time, for now, he thinks, there is "room at the top and an immense field" for such a publication; notwithstanding the fact that our gardening papers continue to go out of business. And his pet? Poor "Gardening;" it is now but the shadow of its once illuminative self, and the replica of a periodical that begins to show the earmarks of advancing age. Never mind: I am sure every intelligent gardener and florist eagerly reads Mr. Falconer's comments in The Florists' Exchange. They demonstrate that his practiced hand has lost none of its cunning, even though he may at times disagree with myself; and they continue to swell the "gossip" columns of your interesting paper which help make it the "best of its kind extant."

Now, as to the newcomer. Far be it from me to "kick" anyone for honest endeavor. But here, again, I seem to have put my foot in it, in trying to keep the horticultural (paper) world straight. Just my luck. I thought the new editor might profit by the suggestions he himself had published; and merely called his attention to something that he seemed to have overlooked.

However, we are indebted to him for having had unearthed the fact that the "ornamental horticulturist" existed long before the Scotchman began to wear kilts. He has shown in his journal that gardening had its origin in Egypt—before Adam knew what a spade was—and that the Egyptian practitioners were clothed mostly in smiles. So that history but repeats itself, in the appearance of our modern "ornamental horticulturist," in abbreviated skirts, and John Birnie's medal will not be forthcoming.

* * *

I have been following, with much interest, the remarks of the various speakers at the recent Horticultural Congress held in St. Louis. I notice that President Vaughan, of the S. A. F. O. H., says: "The officials of many of our national societies, such as those of seedsmen, florists, nurserymen, pomologists, etc., have long recognized the fact that the annual reunion is altogether too small for the proper carrying forward of the yearly work of their organizations, and have felt, when giving up office after having served for a year, that the work had not been carried on or developed as it could and should have been." Well, it seems to me, that evil could be remedied by giving these officials "an extension of time," say, ten years as president, and a lifetime as regards the



HOUSE OF BEGONIA TUNFORD HALL. GROWER J. A. PETERSON, CINCINNATI, OHIO

AMONG THE GROWERS.

The Lewis Conservatories, Marlboro, Mass.

In the younger class of growers for the Boston market one of the most up-to-date is W. L. Lewis, of Marlboro, Mass. His establishment is one of the best-kept we have seen, and he has perfected a system of general management by which he keeps himself posted from day to day on all the conditions of his business. By that I mean he knows just how many blooms a certain number of plants, or a certain variety, has produced and what he has realized from them, etc. The whole establishment comprises nearly 60,000 feet of glass, the latest addition being a house 150x110 feet, on the ridge and furrow style, built two years ago by the Lord & Burnham Co. Two large Lord & Burnham boilers heat the whole place, and Mr. Lewis feels perfectly satisfied that it is one of the best equipped extant. For fumigating purposes Mr. Lewis uses Hunt's Tobacco, which, he says, is far superior to the old way of fumigation; besides, it costs less than one-third.

The establishment is entirely devoted to carnations, although a large retail as well as wholesale trade is carried on. Not so many varieties are grown as at some places, but there are few failures to be seen. Mrs. Thomas W. Lawson is well grown for a dark pink variety. Enchantress and Fair Maid are both grown in quantity, but the former is the variety that is best liked. Mrs. M. A. Patten is exceedingly well grown and is considered the best variety of its class. Estelle has been grown this season, but will be discarded, because it throws too many single or semi-double blooms. J. H. Manley is considered good of its color.

A house of Queen Louise looks well, and although it is one of the best whites that has been tried, it

Krick's Factory, Brooklyn, N. Y.

Retail florists throughout the country are all familiar with Krick's florists' letters, Krick's pot hangers, and Krick's Christmas tree holders; in fact, the name of Krick has become more widely known than any other name connected with the retail flower business, owing to the various labor-saving devices that he has introduced to the trade during the last fifteen or sixteen years.

W. C. Krick is now located in a commodious factory at 1164-1166 Greene avenue, Brooklyn, N. Y., and a visit to his factory reveals many things of interest, particularly should the visitor happen to be an admirer of mechanical genius.

That Mr. Krick is a genius, his many self-made and patented machines give ample evidence of. His florists' letters are all made by machinery. Hard maple planks, three inches thick and ten inches wide, are cut up into block letters with a speed that is astonishing. The making of the pot hangers is also a marvelous piece of work. The wire from the coil is run through one machine and becomes perfectly straightened, then the wire is cut into even lengths, according to the size of the pot hanger to be made. These short lengths are then placed in another machine; two handles are pulled simultaneously and the pot hanger is half made. Another piece of wire is placed on a machine, and two turns of the fingers complete the other half; the two halves are joined together in a second, and the pot hanger is complete.

Mr. Krick has invented his own machinery, and has what one might term a "lead pipe cinch" in the industry. His products are growing more and more in demand every year. He is ably assisted in his factory by his son, George, who acts as general manager. The superintendent of the engines and machinery is an ex-Mayor of Idlewild, N. Y., Jerome Weinig; while the bookkeeping department is under the careful supervision of Miss Sturgiss.

SCALE OF POINTS

This scale shall be employed in judging all seedlings for Certificate of Merit, or for any special prize, and in all classes where competition is close. It shall be used to arrive at a decision:

Color	-	25
Size	-	20
Calyx	-	5
Stem	-	20
Substance	-	10
Form	-	15
Fragrance	-	5
Total	-	100

American Carnation Society

FOURTEENTH ANNUAL MEETING CHICAGO, JANUARY 25 & 26, 1905



Full Report of the Proceedings and Exhibition



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PRESIDENT JAMES HARTSHORNE.

Wednesday, January 25.

(Special Telegram to The Florists' Exchange.)

The inevitable snowstorm which Dame Nature seems to have willed shall be the portion of the American Carnation Society for its annual meeting and exhibition was not wanting in this year of nineteen hundred and five. When the New York delegates arrived in Chicago, two hours late, Tuesday night, a keen northwest wind was blowing, with a temperature of ten degrees below zero.

Wednesday morning a miniature blizzard raged, but the degree of cold had modified somewhat. Many trains were from two to four hours late. Only one shipment arrived frozen. Some were late in getting to the exhibition hall, among them that of Richard Witterstetter, owing to a wreck on the road. Notwithstanding these untoward conditions, a grand exhibition and a most gratifying attendance materialized.

The show was held in the ninth floor dining hall of the Auditorium Hotel, the mural decorations of which, with numerous electric lights, provided an elegant setting for the flowers. The quality of the stock shown, generally, was in advance of that presented in previous years.

There was keen competition in several of the classes, and in but few of them were there no entries. In class A alone, there were fifty-five entries. Cardinal and Robert Craig were the winners, in the order named. Victory, on account of its long journey, did not show up so well here as at other exhibitions where it has been staged. Fiancee was shown in splendid shape, again capturing the Lawson gold medal, while Robert Craig took the silver Lawson medal. My Maryland taking the bronze Lawson medal. The winners in the other classes will be found in the prize list.

C. W. Ward had his flowers packed in fine shape, in a felt-lined trunk, all reaching their destination in fit condition to be staged. The attendance included trade representatives from Denver, Colo., east to New York.

A preliminary meeting was held at 10 a. m. to select a substitute judge in place of William Scott, who was unable to be present, on account of sickness. Mr. Eugene Dailledouze was unanimously chosen.

The management of the exhibition was in charge of Phil Hauswirth, who had everything systematically arranged, so that the judging was done in an extremely expeditious manner; even so it took four hours to accomplish this work.

The judges were Messrs. W. N. Rudd, William Nicholson and Eugene Dailledouze.

On Tuesday evening the World's Fair Flower Show Association presented Phil Hauswirth with a beautiful

gold watch, engraved with his initials, Mr. J. C. Vaughan making the presentation, and the recipient replying fitly. This was a well-merited reward for the work which had been done last November at St. Louis by Mr. Hauswirth.

Evening Session, 8 P. M.

Mr. Willis N. Rudd introduced Mr. Taylor, prosecuting attorney of the City Law Department, who on behalf of Mayor Harrison welcomed the society to the city of Chicago. That gentleman said he was not alarmed by the congress of carnationists, and no extra police protection had been taken, as he did not fear a riot; he thought that when the carnation men went away they would take with them nothing but the hearts of the people of Chicago. He then spoke of the prodigious advances in the culture of the carnation, humorously stating that he had discovered something in regard to the hybridizing of the carnation since visiting the exhibition, namely, that it took a "daisy" to produce the kind of flowers shown. (Laughter and applause.) The carnation men were pursuing their own grail—the four-inch carnation; to illustrate, he narrated a Bill Nye story, showing the result of tenacity of purpose. He said that the Chicago florists would take good care of the visitors and that the veteran J. C. Vaughan would escort them to all the places in the town that they ought to visit. (Laughter and applause.)

Mr. E. G. Hill responded in a felicitous manner. Chicago's hospitality, he said, was known to the world over. He regretted that that city was sending all its good fertilizing material to St. Louis, and that if their florists whipped the Chicago florists the sanitary department of the latter's would be responsible for the defeat. Chicago's new version of the Lord's Prayer was: "Do others, or others will do you." Growing more serious, Mr. Hill said that he thought the four-inch carnation was not far off, and, further, believed that John Thorpe's six-inch flower would materialize in the near future. He closed his remarks by expressing appreciation of the hearty welcome extended by Mayor Harrison's representative, believing that the florists' prayer to Vaughan should be "Lead us not into temptation." (Applause.)

The next speaker was Mr. Rudd, who expressed great pleasure at having the Carnation Society meet here for the second time, which pleasure was enhanced by the fact that the presiding officer on the present occasion was a Chicago man. He then introduced President James Hartshorne, who read his address, as follows:

President Hartshorne's Address.

What little I wish to say to you must be fragmentary, owing to my desire to avoid boring you with a long address. We meet to-day in our fourteenth annual convention. My predecessor has said, did he believe in signs and omens he would be fearful of the success of his thirteenth annual meeting. Now, I would say were I a believer in them I would be fearful of what was going to happen to me, as I have the honor of being your thirteenth president; but if I may judge from the many old-time faces before me and such a goodly sprinkling of enthusiastic new ones, the welfare of our society and the success of this meeting are not going to suffer on that account. Some of you have come a thousand miles or more to pay homage to (dare I say the "Queen"?)—well, to many of us the queen of flowers—the carnation.

The Work of the Society.

This society has done a great work since its organization in promoting these exhibitions, offering prizes and certificates for new as well as old carnations, thus making our hybridists work harder than ever before to keep pace and meet the ideals of our judges. Without this society I am afraid we would still be plodding along in a marking-time fashion, as we were doing fifteen to twenty years ago. It is just fourteen years ago since the dissemination of that once great carnation Daybreak, which really marked a new era in carnationdom. While several good varieties made a bid for our favor in the following year, it was nine years before Mr. Fisher gave us the Mrs. Thomas W. Lawson, the real next sensation. After that came Prosperity, a variety that is still in a class by itself on account of its distinctiveness. Then

came Enchantress and now Lady Bountiful and Fiancee. Therefore, it looks to me, from now on, that it is reasonable to expect a new wonder about every year.

While we cannot all raise a wonder, each individual member of this society can take some share of the credit for what has been done in advancing the carnation in general. For you support the society, and the society enthuses and stimulates the hybridizer to keep pegging away. That gentleman is now having some valuable help from the sportive tendency of what were at one time his seedlings, but now good standard varieties. The Mrs. Lawson, for instance has given us the White Lawson. There is no question but what this variety, now thoroughly fixed will become a valuable standard. It originated in two or three different establishments, and, I believe each one of them is conceded to be identical with the other. It was a good thing for the trade when the owners of these several sports got together and agreed on one name for all of them.

There are several other sports which, I believe, are identical in every respect with each other, now being registered with the society under different names. This should be stopped, as it only causes confusion to the trade in general.

Judging Seedlings—An All-American Flower Show

A matter that has been discussed pro and con in our past conventions is one relative to judging seedlings at various seasons, and another one regarding the best month in which to hold our annual exhibition, both of which are worthy of our further consideration. I wish to offer a few suggestions along these lines: I would like to have the society go on record as favoring an "Annual All-American Flower Show," to be held in November, and in a different city each year. I believe the time is ripe for it. Perhaps the Society of American Florists, or the World's Fair Flower Show Association, could be induced to take up the matter. If there were such an exhibitor it would enable us to see the new carnations in the Fall, as well as at our own grand show later in the season, without any extra expense to the American



WILLIS N. RUDD,
President Chicago Florists' Club.



GEORGE ASMUS

Financial Secretary Chicago Florists' Club

Carnation Society. We could offer our certificates there, which might be termed "Fall certificates," and also collect an entry fee, the same as usual. This, in a measure, would cover the part relative to judging seedlings at different seasons, and be a great benefit to introducer and buyer alike of a new variety, as well as to the trade in general. And then, we need not be so particular as to the date of our own exhibition.

Committees to Judge Seedlings.

Here is another suggestion: If a certain grower has a new carnation for distribution to the trade, give him the chance of receiving our endorsement, or otherwise, of its commercial value, by applying to our president for a committee of judges, or practical growers, to visit his establishment and inspect the variety growing, say two or three times during the season. The committee could consist of three good men, living in his, the grower's, vicinity. I believe this plan is followed by the New York Florists' Club. It would be just as easy to get the committees for this purpose, as it is for the Chrysanthemum Society of America to secure its several committees, to meet every Saturday for two or three months.

Health of Standard Sorts.

One feature of the carnation plant we can congratulate ourselves upon more than any other, I believe, is the healthiness of the acknowledged present day standard varieties. We do not hear so much about stem rot, bacteria, rust, etc., as we did four or five years ago. The reason for this I lay to the fact that the hybridist has refrained from using for crossing purposes varieties that are subject to those diseases, and, again, to our semi-indoor mode of culture, early planting, which I recommended in my essay at the Buffalo meeting.

About Prices.

The prices obtained for carnation blooms the past few years have hardly kept pace with the improvement and the quality of the flowers. When we held our convention in this city seven years ago, fancy carnations were bringing eight cents at the holidays, and occasionally higher prices were heard of. The best varieties at that time were Jubilee, Mayor Pingree, Mrs. McBurney, and Mrs. Geo. M. Bradt. The same prices were realized this season for improved varieties that were better grown, but the years between rarely saw the top figures, and yet the cost of production is much higher. The reason for this state of affairs is no doubt due to over-production; but when you take into consideration that there are a million more plants grown in this vicinity alone, producing about fourteen million more blooms a year for this, the Chicago market, we can hardly be surprised at the non-advancement of the price. Still, I doubt if we have much reason to complain, for during that period we have had no panic in the business world, and no serious slump in flowerdom, and the prospects for the future, I think, are encouraging. Personally, I think we are on the eve of an unusually prosperous era, and I trust the carnationists will reap their share of the benefits.

Where to Meet.

Since we last met in Chicago, we have been to Philadelphia, Buffalo and Baltimore, each one of these cities, approximately a thousand miles from the Western carnation belt, making it very difficult for growers in that vicinity to make creditable showings. In the years following the convention mentioned, we went to Indianapolis, Brooklyn, Detroit and, now, Chicago. This is as it should be. Now let us go East again, the Middle East, or even enter new fields, as I believe great benefits are derived by our society in spreading the knowledge of our work, and showing the products of our skill in any city within a reasonable shipping distance of a carnation center.

The Carnation League.

The growth of the carnation's popularity among all classes of people should be very gratifying to us, and still I believe it to be only in its infancy. One thing more than all others that will, I am sure, increase this popularity in the future, is that grand body, The Carnation League of America, with 3,000,000 members, each wearing a carnation on each January 29, as a tribute to the memory of our beloved President McKinley.

A Little Advice.

We shall soon hear the report of the judges of the present exhibition. Some of us will be disappointed; others will experience those thrills of joy which victory brings. If you are a new exhibitor and are beaten, do not be discouraged. Take your defeat with good grace; find out if possible the weak points of your exhibit, and return home with a determination to overcome them next year.

Before concluding, I beg of you, one and all, to attend the sessions, and stay until each one is over; help us to get through with what business we have, and make this convention what it ought to be—the greatest yet. After the sessions are over there will be plenty of time to explode your otherwise pent-up enthusiasm. That your Chicago friends will be with you, and stay with you to the end, is a foregone conclusion. Now to business.



J. P. RISCH

Vice-President Chicago Florists' Club

The report of the judges was then read by Secretary Albert M. Herr. (This report will be found in full in another column.)

Mr. Rudd called attention to a slight error in the list, the Foley Cup not having been awarded, the exhibit not meriting same.

Secretary Herr then read his report:

Secretary's Report.

Your secretary reports having issued the regular printed matter of this society during the past year and mailing the same to all the members of the society.

The attempt was made of issuing the full premium

list early in the Fall and mailing the same at two different times, once in October and again in January. The idea was to give the advertisers in this list the advantage of a double circulation. The attempt can hardly be called a success, as it was almost impossible to get advertising and specials together in September; they were received so slowly that it came to be a rush job, and an error or two in the copy was the result. These were corrected in the issue sent out in January, and a few additions made to the list in the form of a supplement.

We are as yet without a permanent stenographer (that is, the same stenographer for every meeting), and until we get one, our reports are bound to be incomplete in some respect. We were fortunate in securing at the last meeting and for this one stenographers who have had some experience in horticultural matters; but to give us a complete report such as this society should have, requires a stenographer who will be with us year after year, get acquainted with us, know our names, our voices and the meaning of all the terms we use.

There were during the year the usual number of complaints as to mail matter not reaching the members, in several instances four pieces having been sent the same party. In justice to myself I want to say that all regular matter, such as circulars, premium lists, etc., are sent out addressed by a machine that makes it a mechanical impossibility to miss any one.

While we are not by any means in financial straits yet, there are so many things the society could do with ample funds back of it that we should use every endeavor to increase our permanent fund, and our membership, as well. For the latter I would suggest a display advertisement, gotten up with a cut of the front cover of our annual report, and inserted in the trade papers the week the report is sent out, at a cost not to exceed \$5 for each paper used, and one insertion only. With the papers presented for this meeting our report ought to be a good one, and a strong, pictured, good-sized advertisement ought to pay well in the increase of our membership.

Any member who has either criticism or new ideas for the advancement of this society can have the same brought before the Board of Directors promptly by sending them in writing to the secretary, either at this meeting or at any time during the year. There is no stop to the development of the carnation; there can be none to this, its patron society; but we need the assistance of every member, as well as the Board of Directors and other officers.

Mr. Herr's statement was followed by the report of Treasurer F. E. Dorner, from which we extract the following:

Permanent fund, February 20, 1904: Balance, \$1,910.21; cash received to this fund, \$86; total on hand, \$1,996.21. Working fund: Balance on hand, February 20, 1904, \$253.36; cash received to this fund, \$912.41; total, \$1,165.77; expenses during the year, \$752.64; leaving a cash balance on hand of \$413.13.

Both above reports were received as read.

H. M. Altick reported for the Committee on the McKinley Memorial Fund that some twenty thousand pieces of mail matter had been distributed throughout the country and the committee had counteracted to a great extent the erroneous idea as to the late President having favored a special color of carnation. About \$500 had been received in cash, with pledges for \$500 more.

Mr. Altick pointed out the great stimulus given to the sale of flowers on McKinley Day, and added that if each florist would contribute but one dollar, some twelve thousand dollars would be added to the fund. He spoke of the action of the Chicago club mentioned in last week's Exchange. Mr. Ward stated that he was willing to donate two per cent. of his sales made for McKinley Day, and that a similar donation from every florist would simply be a small commission on a large amount of business the trade had already received.

The subject was further discussed by Messrs. Gillett and Asmus, who pointed out the success attending the efforts of the Chicago Florists' Club. Mr. Cushman alluded to the effect the wearing of a carnation



HOUSE OF VARIEGATED LAWSON—GROWN BY F. R. PIERSON CO., TARRYTOWN, N. Y.



ROBERT CRAIG (Ward)
As grown at Cottage Gardens, Queens, N. Y.

By Indianapolis Flower & Plant Co., Indianapolis, Ind., Coral, Allspice and Candace.

By W. A. Harkett, Dubuque, Iowa, Maid of Honor.

By Robert C. Pye, Nyack, N. Y., Senator Crane.

By D. C. Noble, Columbia City, Ind., Uncle Peter.

There has been some complaint about the name Senator Crane from the members of this committee, lest it be confounded with the variety, G. H. Crane. The secretary took up this matter with Mr. Pye, and he replied that it was named because the flower was associated with the Crane family, and that by the time it was likely to be introduced the older variety Crane would no longer be grown, so he refused to change the name.

The variety Uncle Peter is similar in description to Melody, and we hope, at this show, to have the two varieties together for comparison, the variety Melody having priority of registration.

Prof. Hasselbring, of the University of Chicago, then read his paper, entitled:

Carnation Diseases.

With the extended cultivation and amelioration of the carnation, new diseases and disorders have made their appearance. Are these troubles the result of cultivation? Has the continued high culture predisposed the plants to certain forms of disease? What are the diseases that threaten the carnation to-day and how can they be prevented? These are questions of ever-increasing importance to the florist. Their importance will increase with every extension of the cultivation of the carnation. In no other branch of horticulture is the investment and risk so great as in floriculture; no other branch of agriculture and all the related pursuits expends so large a proportion of the returns for labor. A failure means a corresponding loss. Every factor that is likely to cause failure should be thoroughly understood.

The whole question has received far from sufficient attention. Our Experiment Stations, while they have vastly furthered the interests of other branches of agriculture and horticulture, have left the whole field of florists' problems almost untouched. In this State (Illinois), containing the largest greenhouse industry in the world, our Experiment Station cannot legally take up any question relating to the culture of plants under glass. The florist must stand on his own feet. In the absence of sufficient experimental investigation, it will be possible to touch only the main features of the question of diseases, and point out the possible future of the carnation in relation to them.

In the main, the troubles with which the florist has to deal may be classed under three categories: Insect enemies, physiological disorders and fungous diseases. Fortunately, the carnation has but few insect enemies, and those are so well understood that I will not take up the time to speak of them. The others are not so well understood. Physiological diseases result from the disturbances of the functions of a plant from any cause whatever. Less than three-quarters of a century ago it was the common view that all cultivated plants must be regarded as diseased because they were not growing under natural conditions. Therefore, their functions must be disturbed. We no longer follow this mode of thinking. There is no reason to believe that plants are weakened or impaired in vitality by continued cultivation. It is true that we cannot define what we mean by "vitality" in a plant, but if its vitality was impaired by continuous cultivation we should finally expect it to die. This has not been our experience. Wheat has been in cultivation for thousands of years, and the plants are more vigorous and give greater yields to-day than 1,000 years ago. You will perhaps mention the "running out" of varieties. I do not think varieties have run out. They have been superseded by better ones, and by comparison the older variety has appeared to

"run out." We have no record but our judgment to show that any variety has "run out." It is true, certainly, that all plants vary under cultivation, and the



SINGLE BLOOM OF WHITE LAWSON
F. R. Pierson Co., Tarrytown, N. Y.

on that day would have on the development of trade generally. Mr. Rudd spoke on the sentimental side of the question and urged the giving of flowers to children unable to pay for them. He then moved the following resolution: "That a suitable offering of carnation blooms be sent by this society to be placed on the tomb of the late President McKinley on the day of the anniversary of his birth, which occurs in a few days." Carried. Messrs. Vaughan and Valentine also spoke on the subject. Finally a motion was made by James G. Hancock that the report of the committee be accepted, the committee continued and that the society indorse the methods of said committee in distributing circulars asking pledges of a certain percentage, by States, of carnations on the day in question.

The report of the Nomenclature Committee was then read by Secretary Herr, and ordered placed on file.

Report of the Nomenclature Committee.

There were registered during the year the following carnations:

By W. L. Lewis, Marlboro, Mass., Mrs. W. L. Lewis.
By Baur & Smith, Indianapolis, Ind., Flambeau and Beatrice.

By W. B. Arnold, Rockland, Mass., Variegated Lawson.

By F. A. Blake, Rochdale, Mass., Harvard Crimson.
By H. Weber & Son, Oakland, Md., My Maryland.
By L. F. Marquisee, Syracuse, N. Y., White Enchantress.

By F. R. Thornton, Streator, Ill., Melody.
By Guttman & Weber, New York, N. Y., Victory.



BENCH OF NEW CARNATION MRS. W. L. LEWIS, GROWN AT THE LEWIS' CONSERVATORIES, MARLBORO, MASS.

same seedpod may give some offsprings of a weak and some of a vigorous habit, but this is incident to cultivation and not caused thereby. The cause lies in the unknown factors governing the variation of plants.

As physiological troubles, we may mention the "sleeping" of flowers, and bursting of the calyx. The cause of those troubles rests to a great extent in the nature of the variety, but to some extent also in outer conditions. The very fact that the calyx of certain varieties bursts with some growers, but not with others, shows that this trouble is greatly influenced by outer conditions and can be solved by experimentation. As yet, as I have said, these subjects have never been scientifically investigated. It is to be hoped that some time these questions will receive their proper share of attention by our Experiment Stations.

In considering fungous diseases, we must keep in mind distinctly one thing: These diseases are caused by distinct parasitic organisms. A fungus is an individual organism just as much as the carnation plant is. It has a vegetative period and finally produces spores, which again reproduce the same fungus. Its whole development can be followed with the same certainty with which the development of any plant can be followed from seed to maturity. Parasitic fungi live in the tissues of other plants, spreading in the same manner as roots in the soil. In this way fungi produce diseases by destroying the tissues of the plants upon which they feed. Diseases of this nature are often attributed to some sort of unfavorable conditions, such as lack of ventilation, too much water, deep planting and the like. This is an error. While certain conditions favor the growth of fungi and thus cause disease to appear more abundantly, it is, nevertheless, true that such diseases would not appear if the fungi were absent. The fungi are in every instance the prime cause of disease—not the conditions.

There are at the present time but two fungous diseases of the carnation which we need to discuss—the rust and the stem-rot. The rust was a prevalent disease about ten years ago. At that time it was feared as the worst enemy of the carnation, as its frequent discussion in the horticultural literature of that time indicates. It still appears spasmodically here and there on some varieties, but it is no longer the dreaded enemy of the carnation. We will come back to the causes of this again. The stem rot is a far more serious disease and one which will be difficult to control. It is caused by a fungus of the genus fusarium. While the name of the fungus may not carry with it any special significance, we shall see presently that this is one of a great group of fungi which have received considerable attention of late, and that the study of this group has been the chief means of developing a new method for controlling diseases. These fungi are the causes of the now well-known "wilt diseases" of many plants. The wilt diseases of the cotton, cowpea, watermelon, flax and aster are caused by species of fusarium. These diseases have been carefully investigated and from the knowledge gained from them we can fill out, tentatively at least, such points as are still unknown in the life of the carnation fusarium.

The stem rot, which is not primarily a rotting of the stem, but a wilt disease first manifesting itself by a wilting of the leaves of some shoots. Very often only the leaves on one side of a shoot wilt, and in nearly all cases only a part of the plant is affected. This is more especially true during the early stages of the disease. It will frequently be found that the branches on one side of the plant are affected, and sometimes only those arising low down on the main stem. The disease always progresses upward. The



CARNATION PBYLLIS

Grower, John N. May, Summit, N. J.

nounced by many as a sure winner was Aristocrat, many varieties seem to be free from the disease. These are especially the strong growing varieties, such as Harlowarden, Enchantress, those of the Lawson type and Lady Bountiful. I have seen America planted where Crane died of stem-rot, yet the former variety was not affected. Some varieties seem to outgrow the disease even when affected. This seems to be true of Bradt and Lord. These observations are as yet of limited extent, but they point to one conclusion. Some varieties of carnations are immune from stem-rot.

The problem for the future will be the production and selection of immune varieties. It should be the aim of the originator to produce resistant varieties and only such varieties should be put upon the market. This plan is not impossible, for it has been successfully followed in the case of cotton. Through the work of the Department of Agriculture several varieties of cotton have been produced which are resistant to the wilt. Those can be planted in infected fields, where other varieties have been exterminated, without being attacked by the disease. I am convinced that we have a similar example in the carnation rust. Almost imperceptibly the discussion of this disease has dropped from horticultural literature. Why? If we examine the older catalogues we find many varieties advertised as "rust-proof." Those may or may not have proved as represented, but the fact shows the tendency of the time to produce rust-proof carnations. Only the varieties that actually proved rust-proof finally were extensively cultivated, and to-day the rust has practically disappeared from our greenhouses. I have no doubt that we will have a similar experience with the carnation stem-rot. We have already indications of the lines to follow, and experience has shown that they can be followed successfully.

Mr. Rudd in the ensuing discussion took exception to the statement that varieties do not run out. They certainly do. Lawson was cited as a case in point; it did not give either the quality or the quantity of two years ago. The speaker was not prepared to say it was in the nature of the variety, but thought it was practically the result of the present-day methods of treatment and the high-pressure system of growing. He remembered reading a paper by some one, attributing running-out to overfeeding, which caused chemical and physiological changes, reducing the quantity of the product and vigor of growth, which defects were transmitted to offspring. Some growers have old-time varieties in fine shape yet, but these men are not adopting the high-pressure system of cultivation. He mentioned the susceptibility of some varieties to stem rot; no question at all but this disease was carried over in the cuttings, and advised that carnations attacked with it be not used for propagation purposes. As regards rust, it was being combated by present growing methods, syringing less often and keeping the foliage as dry as possible.

C. W. Ward attributed the reduction of the seriousness of disease to proper cultivation; the plants are not more resistant to attacks now than they were before. Mr. Ward sterilizes his propagating sand, also his potting soil, and uses plants for propagation that are free from fungus of all kinds. Employs his fertilizing material very much weaker and less often. His ordinary compost consists of cow manure to a much greater extent and chemical fertilizers not used so often. Temperature formerly carried at 56 degrees now reduced to 48, 50 and 52 degrees. Used to run Lawson at 56 degrees, now at 52 degrees, preventing bursting. Rust had been combated greatly by the increased vitality of the stock now grown; affected seedling plants if treated properly will outgrow it in fourth year.

This matter was further discussed by Messrs. Haselbring, Fisher, Dailedouze, Valentine, Bauer and



LIEUTENANT PEARY (Ward)

As grown at Cottage Gardens, Queens, N. Y.

Weber. Mr. Fisher's experience was that stem rot proceeded from checks to plants and cited case where too dry soil had caused it. Mr. Ward corroborated this statement. Plants outdoors often suffered from droughts or excessive rains and when planted in the bench received a check from which disease resulted. William Weber believed that stem rot was nature's way of disposing of decaying matter. Good ventilation and absence of extremes in watering will do away with nearly all stem rot.

A vote of thanks was then awarded Professor Haselbring.

Boston in 1906.

Boston was selected as the next place of meeting. Toronto also gave an invitation, but later withdrew. That city expects to get the convention in 1907.

Nomination of Officers.

For president, Peter Fisher was nominated by Eugene Dailedouze, seconded by W. N. Rudd.

For vice-president, John Dunlop, of Toronto, nominated by Kasting and seconded by several. For secretary, Albert M. Herr, nominated by C. W. Ward, and seconded by several. For treasurer, F. E. Dörner was nominated by E. G. Hill and seconded by Wm. Nicholson. William Weber as a director was nominated by Mr. Kasting. Mr. Nicholson as judge for three years was nominated by Mr. Hill, seconded by Mr. Dailedouze.

Committee on the President's Address—Messrs. Rudd, Witterstetter and Lemon.

Meeting adjourned at 11.30 p. m.

The Exhibition.

Chicago said that it would give to the members of the Carnation Society the best show in the Association's history, and it did. The hall was light, roomy and airy. The quality of stock was good throughout, all the blooms having fine substance; not one of the vases staged appeared as they did in Detroit last March. Fiancee again came out victorious in every class in which it was entered. One variety which attracted much attention and which was pro-

leaves on the affected branches soon die and turn to a pale color without dropping. The upper leaves on these branches may be wilted, but still grow until the whole branch finally dies. The calyx lobes, or flower stems, usually turn yellow at the tips before the upper leaves begin to die. The root systems of these plants appear healthy externally with the exception of one or two roots. These are completely decayed, so that only a remnant of them is left. Yet, if the diseased plants are carefully examined after the roots have been washed, these decayed roots can always be found. Here is evidence that the fungus has entered the plant from the soil through the roots.

The cause of the fungus in the plant and the reason for the peculiar damage it causes can be easily seen by cutting microscopical sections at different parts in the diseased stem and branches. The fungus grows from the infected roots into the water-conducting channels of the stem and branches. When the disease is severe these can be seen to be literally plugged up with a mass of the mycelium of the fungus. It is then impossible for the plant to obtain sufficient water, and wilting and death are the results. Sometimes the fungus invades only the ducts on one side of the stem, and then the leaves and branches on this side wilt. Later, when the plant is dying, the other tissues are also invaded, first the pith and then the cortex. The fungus produces innumerable spores on the dead stems and on the lower portions of the leaves.

So much for the effect of the fungus on the carnation plant. Questions of more practical importance are: How does this disease get into the carnation beds, and how can it be prevented? The fusariums are a group of soil fungi. They are found nearly everywhere on decaying organic matter in the soil. I have been unable to collect evidence showing that the stem rot reappears in the same soil year after year, this being due to the fact that carnation growers change their soil annually. We know, however, that the plants are attacked from the soil, and this in connection with the fact that the fusariums are found almost everywhere, and can grow freely on dead matter in the soil, leaves scarcely any room for doubt that the soil is the source of infection. It has been definitely shown that the wilt fungus of the cotton, watermelon, cowpea and flax remain indefinitely in soils once infected. In fact, it has been found impossible to eradicate them. The same is probably true for the carnation wilt or stem-rot.

The most important question is, how to prevent the disease. Since it remains in the soil, it is, beyond the reach of the usual fungicides. It attacks the plants beneath the soil so that direct preventive measures are practically excluded. What hope have we then of ever controlling the disease? I think the solution of the question will come from a study of varieties. If we look over the different varieties now generally cultivated we find that some are badly affected, others less, and some seem not to suffer from the disease at all. It is somewhat difficult to collect exact data on this, but it seems to be everywhere conceded that such varieties as Crane, Morning Glory and Flora Hill are most subject to the disease; many growers have thrown these varieties out entirely. Flamingo, Apollo and White Cloud seem to suffer as much as those just mentioned. On the other hand,



CARNATION IMPERIAL, AS GROWN BY JOHN E. HAINES, BETHLEHEM, PA.



SINGLE BLOOMING VARIEGATED LAWSON
F. R. Pierson Co., Tarrytown, N. Y.

grown and exhibited by Richard Witterstatter. Unfortunately, this grower's flowers arrived too late for competition. The color of Aristocrat is about the same shade as Lawson, clear to the edge of the petals. J. A. Valentine, another of Mr. Witterstatter's varieties, is a beautiful flower, a shade darker than Enchantress. His Lady Bountiful was also shown in grand form, being the best vase of white in the hall. Cardinal and Robert Craig were the attractions in the red class. Victory had been out of water for forty-eight hours and, naturally, had lost some of its brilliancy; still, it made a creditable showing. My Maryland, grown and exhibited by Weber & Sons, Oakland, Md., is a grand white, and if it can be grown as well generally as the introducers do it, it will push Lady Bountiful for first place. The flowers of Governor Wolcott, exhibited by Emil Buettner, showed that around Chicago this variety well holds its own. Lawson was generally good in all the exhibits. Enchantress, also, was of fine color.

The Richmond rose was a great attraction. A few flowers exhibited at Detroit, on January 18, were put up at Chicago a week later and were still in excellent condition, proving the superb keeping qualities of this new variety.

C. KNOPF.

Award of Certificates of Merit.

W. N. Rudd, Mount Greenwood, Ill., with Lady Margaret, 85 points.

M. A. Patten Co., Tewksbury, Mass., with Mikado, 88 points.

C. W. Ward, Cottage Gardens Co., Queens, N. Y., with Robert Craig, 88 points; Lieutenant Peary, 88 points.

H. Weber & Sons, Oakland, Md., with My Maryland, 88 points.

Award of Preliminary Certificates.

C. W. Ward, Queens, N. Y.: No. 569, pink, 93 points; No. 234, crimson, 86 points; No. 211, crimson scarlet, 91 points; Alma Ward, white, 88 points; No. 2528, deep pink, 85 points; No. 2653, white, 86 points.

E. G. Hill Co.: No. 12, white, 85 points.
S. J. Goddard, Framingham, Mass.: Helen Goddard, 85 points.

Other exhibitions besides carnations were roses, Richmond and Rosalind Orr English, from the E. G. Hill Co.; Tarrytown Fern, from the F. H. Pierson Co.; Tarrytown, N. Y.; begonia, Tunford Hall, from J. A. Peterson Co., Cincinnati; rose, General McArthur, from J. M. Gasser Co., Cleveland; rose, La Detroit, and white, yellow and pink snapdragons, from J. Breitmeyer's Sons; Nephrolepis Scottii, from Vaughan's Greenhouses, Western Springs, Ill.; Boston fern, from Davis Bros., Geneva, Ill.; wooden gutter and iron supports, from A. Dietsch Co., Chicago; Everlasting greenhouse bench, from Cleveland Cut Flower Company; carnations supports, from the Eagle Machine Works, Richmond, Ind.

General Premium Awards.

CLASS A.

Open to all varieties, seedlings or standard sorts.
100 blooms white, E. G. Hill Co. first with Lady Bountiful; W. J. & M. S. Vesey second with same variety.

100 blooms Daybreak shade of pink, Chicago Carnation Co. first with Enchantress; E. G. Hill Co. second with same variety.

100 blooms Lawson shade of pink, Chicago Carnation Co. first with Lawson; Emil Buettner second with same variety.

100 blooms Scott shade of pink, Chicago Carnation Co. first with Fiancee.

100 blooms scarlet, Chicago Carnation Co. first with Cardinal; J. D. Thompson Co. second with Robert Craig.

100 blooms crimson, Chicago Carnation Co. first with Harlowarden; C. W. Ward second with The President.

100 blooms yellow variegated, Chicago Carnation Co. first with Dorothy Whitney.

100 blooms white variegated, J. D. Thompson Co. first with Mrs. M. A. Patten; W. J. & M. S. Vesey second with Glendale.

100 blooms any other color, Poehlmann Bros. Co. first with Prosperity.

The sweepstake in Class A, \$15 in cash to best vase, was won by Chicago Carnation Co. with Fiancee.

CLASS B.

Open to all varieties disseminated prior to July 1, 1903.

50 blooms white, Emil Buettner first with Governor Wolcott; E. G. Hill Co. second with Lady Bountiful.

50 blooms Daybreak shade of pink, E. G. Hill Co. first with Enchantress; Chicago Carnation Co. second with same variety.

50 blooms Lawson shade of pink, Emil Buettner first with Lawson; Poehlmann Bros. Co. second with same variety.

50 blooms Scott shade of pink, J. D. Thompson Co. first with Mrs. E. A. Nelson; H. Weber & Sons second with Genevieve Lord.

50 blooms scarlet, J. D. Thompson Co. first with Estelle; 50 blooms crimson, C. W. Ward first with The President; C. W. Ward second with Octoroon.

50 blooms yellow variegated, Chicago Carnation Co. first with Dorothy Whitney; F. Dorner & Sons Co. second with same variety.

50 blooms white variegated, Chicago Carnation Co. first with Mrs. M. A. Patten; E. G. Hill Co. second with same variety.

50 blooms any other color, Chicago Carnation Co. first with Prosperity; the second prize was divided between Poehlmann Bros. Co. and W. J. & M. S. Vesey, with same variety.

Sweepstake in Class B, \$10 in cash to best vase, was won by E. G. Hill Co., with Enchantress.

CLASS C.

Open to all varieties disseminated prior to July 1, 1902.

25 blooms white, Emil Buettner first with Governor Wolcott; J. D. Thompson Co. second with same variety.

25 blooms Daybreak shade of pink, Emil Buettner first with Morning Glory; Chicago Carnation Co. second with Fair Maid.

25 blooms Lawson shade of pink, Emil Buettner first with Lawson; Chicago Carnation Co. second with same variety.

25 blooms Scott shade of pink, J. D. Thompson Co. first with Mrs. E. C. Nelson; H. Weber & Sons second with Genevieve Lord.

25 blooms scarlet, H. Weber & Sons first with Estelle;



VASE OF WHITE LAWSON
F. R. Pierson Co., Tarrytown, N. Y.

J. D. Thompson & Co. second with same variety.
25 blooms yellow variegated, Chicago Carnation Co. first with Dorothy Whitney.
25 Blooms any other color, Guttman & Weber first with Prosperity; Vesey Co. second with same variety.

CLASS D.

Wm. Scott prize, for collection of 50 blooms scarlet, no more, none less, all varieties admissible that have not been disseminated prior to November 4, 1904. First prize of \$15 cash went to E. G. Hill Co. with Cardinal; second prize, \$10, was won by Guttman & Weber with Victory.

CLASS E.

E. G. Gillett prize for best vase of 50 blooms in the hall, prize \$5 cash, won by E. G. Hill Co. with Cardinal.

CLASS G.

H. Weber & Sons prize, vase of Gov. Lowndes scoring the highest number of points, \$10 cash, won by E. G. Hill Co.; vase of Genevieve Lord, scoring highest number of points, \$10 cash, won by Guttman & Weber.

CLASS H.

James Hartshorne prize, best vase of 50 blooms Crusader, \$10 cash, won by J. Breitmeyer's Sons.

CLASS I.

The Lawson Medals.

Gold medal for the best vase of 100 blooms, any variety, any color, was captured by Chicago Carnation Co. with Fiancee.

The silver medal for second best vase of 100 blooms, any variety, any color, was awarded to C. W. Ward with Robert Craig.

The bronze medal for the third best vase of 100 blooms, any variety, any color, was won by H. Weber & Sons with My Maryland.

CLASS J.

Special medals of the Society of American Florists. A silver medal awarded by the society, for the best vase of 50 blooms of carnations not yet disseminated, went to J. D. Thompson Co. with Robert Craig.

A bronze medal given for the second best vase of 50 blooms of carnations not yet disseminated, was awarded to H. Weber & Sons with My Maryland.

CLASS K.

Vaughan's Seed Store, Chicago.—Prize, a silver cup, value of \$25, for the best 50 blooms of an undisseeded variegated carnation, any color, was awarded to H. W. Buckbee, Rockford, Ill., with No. 38.

CLASS L.

A. Dietsch & Co., Chicago.—Prize, \$5 in cash, for the best undisseeded seedling carnation from the State of Illinois, not less than 12 blooms to a vase, was taken by J. D. Thompson Co. with Robert Craig.

CLASS M.

Baur & Smith, Indianapolis, Ind., prize \$10 in cash, for the best 50 blooms of carnation Indianapolis, was won by Emil Buettner.

CLASS N.

The J. C. Moninger Co., Chicago, Ill. prize offers were awarded as follows: 50 crimson, first and second prizes were divided between Poehlmann Bros. Co. and the Chicago Carnation Co., each showing Harlowarden; 50 yellow, first prize \$5 went to Chicago Carnation Co. with Dorothy Whitney.

CLASS O.

Foley Mfg. Co., Chicago.—Prize, a silver cup to value of \$25, offered for the best vase of 100 blooms, arranged for effect; foliage of any kind allowed, but no flowers excepting carnations. Open only to retail florists. Captured by Joseph M. Smely, Aurora, Ill.



CARNATION VICTORY—WEBER & GUTTMAN, LYNBROOK, N. Y., GROWERS



VASE OF BLOOMS OF VARIEGATED LAWSON
Grown by F. R. Pierson Co., January, 1905

The manner of handling these blooms, as adopted by most of the larger growers, is as follows:

The cutting of the flowers must be attended to with considerable judgment as regards the weather. If the weather is very cold the flower should be allowed to open a little more than usual, as if cut too close in very cold weather they soon go to sleep. Again, if there is a warm wave with lots of moisture in the atmosphere the flowers will be soft and must be cut pretty close; also during these warm spells the flowers should be kept in a little cooler temperature than usual to make the blooms as firm as possible. After the flowers are cut and tied in bunches of twenty-five each, they should be placed in bunches of soon as possible. This is best accomplished by having pails of fresh water standing handy to the benches, so that as soon as a bunch is tied up it can be placed in the water at once. This is very necessary, as it helps prolong the life of the flower. If the blooms are left out of water until the cutting is all finished a number of them will have wilted a little and the sap in the stem hardens up to such an extent that the flower will not suck up water freely.

After the cutting and bunching is finished the flowers should be placed in water in a closet or room where the temperature remains steady at about fifty-five degrees, and where no drafts of air will strike them. When packing to send them to the commission man or wholesale store, use a few sheets of newspaper between each layer of bunches, and keep the ends of the stems from touching any of the flowers. Two layers of bunches are enough to put in any package, as too many heads get broken when packed in too solid. The wholesale or commission house should put the flowers in water as soon as received.

Now, for short distances, where the flowers can be shipped on trains that will arrive early enough for the flowers to be delivered that same day the stock sent is usually that cut the night before; but for flowers that will have to remain packed in the boxes over night and for all long distance shipments the stock taken is always cut in the morning, and, after standing in water from three to six hours, is sent into the market and shipped away the same day. The old idea that a carnation keeps best if allowed to stand in water twelve to twenty-four hours before sending into market has been disproved by actual experience, and of the carnation blooms received by the wholesale growers at least two-thirds the stock is cut in the morning and shipped into their wholesale stores in the early afternoon to send away the same day. These flowers will arrive in better shape and last longer every time than if cut the day before.

After carnations have been kept eighteen or twenty hours in water they seem to get kind of soggy and do not ship well.

The boxes used for shipping carnations are made of thin wood, half-inch ends and quarter-inch tops, bottoms and sides, with two half-inch cleats to fasten the stems down and hold the ice securely. These boxes are usually twelve inches wide and four to eight inches deep and thirty-six to forty-six inches long. The boxes may appear too long at first, but they are better too long than too short. Line the boxes first with four to eight thicknesses of newspapers, depending on the weather. Then a single thickness of soft wax paper all around. Commence and put in a row of carnations, usually about six flowers to a row, and between each row of heads place a strip of wax paper about three inches wide and as long as the box is wide; about four rows of flowers in each end will constitute a layer, and between each layer place a sheet of wax paper the width of the box and long enough to cover all the heads in that layer; keep on until the box is completed.

It will be found that, with the extra long stems now being grown, four or five rows in each end of the box will be all that can be put in a layer, as by that time the stems will be within six inches of the opposite row of flower heads. The number of layers of flowers should not go over four or six, which will allow of from two hundred to three hundred carnations in



VASE OF DAHEIM
F. R. Pierson Co., Tarrytown, N. Y.

Thursday, January 26.

Morning Session.

Thursday morning session opened at 11 o'clock. President Hartsborne appointed as a committee on final resolutions, Messrs. Rackham, Patten and C. W. Johnson. The committee on the president's address, through Mr. Ward, who substituted for W. N. Rudd, took up the question of naming similar sports occurring in different localities from the same varieties. The matter was referred to the nomenclature committee. It was explained by Mr. Lemon that the committee was of the opinion that the first sport reported to the secretary, and named for registration, should have priority of name.

Considerable discussion ensued on the matter of holding an all-American flower show. The committee recommended for greater educational purposes and also to afford better opportunities of exhibition, that a standing committee of three, selected from widely separated sections of the country, be appointed with power to each and every member of that committee to confer with local associations in the principal cities for the purpose of holding a seedling carnation show under the auspices of the American Carnation Society in co-operation with the local chrysanthemum shows in the Fall, or other appropriate seasons. The recommendation was adopted, the appointment of a committee being left with the president. This committee will submit a selection of cities in which shows will be held to the board of directors for final choice.

Mr. C. L. Washburn, of Chicago, then read his paper, giving practical demonstration of packing flowers for shipment; he incidentally remarked that after considerable experimenting he preferred during warm periods to ship blooms in a kind of wilted condition without first having been placed in water.

Cutting, Packing and Shipping Carnations for Long and Short Distance Shipments.

The development of the shipping business has been the cause of the remarkable increase in the growing of carnations in this market. Ten years ago a very few of the blooms then being grown would do to ship, while the quantity raised was not over ten or twenty per cent. of the present output. The demand from outside points was very heavy and the problem to solve was how to ship the carnations so they would arrive in good condition. This brought about a close study of the methods of handling the flowers and also the constant trial of new varieties. As soon as the growers began to improve their stock and their system of handling the flowers there was an immense increase in the demand for the goods. This vast increase has taken place mostly in the last six or seven years, and every year has shown a larger amount of carnations planted and handled than the previous year. It is now almost impossible to get the exact amount of carnation blooms received each season, but a conservative opinion would place the number at about fifty thousand blooms per day during October and November, and then a gradual increase to one hundred thousand per day by Midwinter, and continued at this rate to the end of the season. At least seventy-five or eighty per cent. of this amount is shipped away from the city, and in the ability to deliver these flowers at their destination in first-class condition lies the successful conduct of the business.

one box. In the centre of the box, where the stems meet, there should be placed at least eight or ten thicknesses of well-saturated newspapers. These newspapers should be kept in a pail of water, so that they will have absorbed all the water they possibly can before being placed on the stems. After putting this wet paper on the stems, place the two cleats on and fasten them down securely with nails. Be careful in placing the cleats to put them only on the double rows of stems, and not beyond, and also see there is plenty of wet newspapers under them, so there will be no danger of breaking the stems by pushing the cleats too far down.

The subject of icing a box is a debatable point, but for long distance shipments our experience is that a small piece of ice, well wrapped with newspapers, helps to preserve the flowers from heat and also keeps the newspapers over the stems moist. For varieties that have brittle stems, like Lawson, care must be taken not to fasten the cleats down too tight or too near the neck of the flower, or the stems will be broken in handling the package. It is also well to put a few sheets of tissue paper well crumpled up between the cleats and the flower heads. This will absorb any damp cold air from the ice and will also serve as a cushion to protect the flowers from shaking up and down in the box by rough handling.

In order to dispose of our product to advantage it is absolutely necessary to continue to improve our methods of handling carnations intended for shipment. They must be grown stronger, more air given and great care taken in feeding. The effect of the warm Spring rains must be overcome in some way, as during such periods it is almost impossible to ship carnations any distance and not have them arrive fast asleep.



HOUSE OF FLAMINGO, AT L. E. MARQUISEE'S, SYRACUSE, N. Y.
From photograph taken January 5, 1905



SINGLE FLOWER OF CARNATION DAHEIM
F. R. Pierson Co., Tarrytown, N. Y.

Mr. C. L. Washburn, of Chicago, followed, with his paper on

All the little details of cutting, placing in water and shipping should be attended to with the greatest fidelity, and as we improve our methods of handling and our varieties of stock so shall we increase our volume of business. The advisability of devoting a certain amount of glass to growing plants for Spring and early Summer blooming is a point that should be considered. There are some varieties that are at their best during these periods, and there is no doubt that carnations always ship best when in full crop. If the creators of new varieties would give more attention to the keeping and shipping qualities of their new flowers instead of trying to increase the size so much they would be working along lines that are susceptible of considerable improvement. No matter how large a flower or how fragrant or brilliantly colored it is, if it will not keep well and ship well it cannot be grown extensively. The immense number of railroads centering here and reaching out in every direction, with frequent trains and quick express service, gives us a field to be supplied that reaches as far east as New York State or Pennsylvania, south to Florida, New Orleans, Galveston and various Texas points, while west we can reach all Colorado towns and some points in Montana, and then on north to Winnipeg. This vast scope of country makes Chicago the central flower market of the United States and has built up the immense greenhouse business of this vicinity.

E. G. Gillett, in the ensuing discussion, commended packing in layers when flowers were intended for retail buyers, but growers shipping to commission houses should buy their flowers in twenty-fives, adding one or two more in case of breakage. This saved much time. He condemned the carelessness in packing too often practiced by small growers. Flowers are oftentimes placed too close to ends of boxes,

many blooms being thereby bruised, especially when packed in layers. A vote of thanks was then passed to Mr. Washburn.

Secretary Herr then read the supplementary report of the judges on general and late exhibits:

F. R. Pierson Co., Tarrytown, N. Y.: Tarrytown fern; very fine.

Waban Conservatories, Natick, Mass.: Pink rose Wellesley; very fine.

Gasser Company, Cleveland, Ohio: Red rose General MacArthur; a very fine, fragrant, pretty flower.

Indianapolis Flower & Plant Co., and John Hartje, Indianapolis: Carnations Candace, a very pretty pink; Coral, promising; Daybreak, shale; Allspice, variegated, very good.

Swan Peterson Floral Co., Gibson City, Ill.: White Swan carnation, nice commercial white; the Belle and a nice display of other varieties.

J. Breitmeyer's Sons: Rose La Detroit and a fine display of antirrhinums; an excellent exhibit.

Eli Cross, Grand Rapids, Mich.: A good display of violets, single and double.

Robert Klagge, Mt. Clemens, Mich.: An interesting lot of seedling carnations.

B. K. & B. Floral Co., Richmond, Ind.: Display of carnation Richmond Gem.

J. A. Peterson, Cincinnati, Ohio: Begonia Tunford Hall; very interesting.

E. G. Hill Co., Richmond, Ind.: New rose Richmond, a magnificent rose, beautifully staged; Rosalind Orr English, a beautiful pink rose.

Nathan Smith & Son, Adrian, Mich.: Chrysanthemum John Burton, remarkably good for so late a date.

Richard Witterstatter, a fine exhibit, received too late for competition: Afterglow, Aristocrat, 1021 and B-1 among the new varieties not disseminated, were of unusual excellence; also an unusually well done Lady Bountiful.

F. Dornier & Sons Co., Lafayette, Ind.: A striking collection of many unnamed seedlings, in several vases, a very interesting display.

F. R. Pierson Co.: A good display of White Lawson.

Cottage Gardens Co.: A large display of Ethel Ward and unnamed seedlings.

Among the varieties showing up well on the second day were the following: Lady Bountiful, My Maryland, White Lawson, Governor Wolcott, Enchantress, Fiancee, Lawson, Mrs. M. A. Patten, Octeroon, The President, Cardinal, Robert Craig, Victory, Afterglow, Aristocrat, Morning Glory and Candace. In general, the flowers kept better than in Detroit.

Afternoon Session.

Thursday afternoon's session opened at 3 o'clock. Mr. Fred Lemon read his paper, entitled:

Exhibition Carnations.

In approaching the subject of "Exhibition Carnations," the first inclination is to seek a definition for the term. What are exhibition carnations, and who are the growers of exhibition carnations?

What Is an Exhibition Carnation?

When we speak of exhibition chrysanthemums there immediately arises before us a vision of immense reflexing or incurving Japanese blooms of various shades of color, some light, some dark, some gaudy, some dull, all beautiful, but scarcely any practicable for the purely commercial grower. We find these in the hands of a special class of growers—First, the large growers, importers and introducers of new chrysanthemums, whose aim in exhibiting the marvelous creations of the hybridizer is to arouse the interest of prospective buyers. Second, the private



CARNATION MRS. W. L. LEWIS
Grown by Lewis Conservatories, Malboro, Mass.

gardener, that true horticultural enthusiast, whose time and skill are devoted to perfecting the magnificent blooms, mainly to satisfy a love of the beautiful in Nature. When we turn to the carnation, however, and examine the exhibition and the exhibitor, we find a magnificently large collection of the very same varieties which are daily seen by thousands in the wholesale houses of the country, flowers a little better than the best in the market, perhaps (because more carefully handled), and exhibited by the very mer whose vast ranges supply the markets. This is the carnation distinctively the business man's flower, and an exhibition of carnations a most practical demonstration of what can be accomplished by care and attention in growing flowers for the market.

Selection and Cutting.

A consideration, therefore, of the subject now before us, must of necessity encroach, to a certain extent, upon the daily task of cutting, packing, and shipping carnations, because the very methods which result in putting flowers into the market in the best possible condition, must form a foundation for our plans and methods of putting our blooms into the exhibition hall, in perfect condition.

Granted then that we have flowers which we think are good enough to exhibit, (and we might say right here that they must be rather good in this day and age), the first question is the selection of blooms, and time and method of cutting. Just here a study of the scale of points for judging will be of great benefit. This shows us that color must be the first consideration, with stem and size counted equally for second place. Great care should be used to obtain a very evenly-colored lot of blooms even at the expense of other points. With this end in view, it is best when possible to cut all the flowers for one class about the same time, for there will surely be variations in color if some of the blooms have been kept in water sixty hours, and some only six hours.

Use a sharp knife to cut the blooms, and take every inch of stem you can get, without going into the hard wood. The proper condition of a bloom to be cut for exhibition, depends largely upon the variety, but may be generally stated as—just before that bloom reaches a state of perfection. Here is where the judgment of the operator is put to the test; here the point where many prizes are lost. Such a variety as Enchantress for instance, is in perfection when the flower is young and failure greets the man who allows his Enchantress to develop too fully before cutting; while that erstwhile grand variety Flora Hill only reaches a state of perfection for exhibition after having stood upon the plants for many days, and being allowed to develop very fully before cutting.

Between these two extremes are many gradations, and, as before stated, must call upon the best judgment and broadest experience at command.

In cutting for exhibition, cut each class complete, and keep that class to itself from this time until it is staged, only changing blooms to strengthen the class you are most desirous of winning in.

Blooms should not lie out of water long after cutting, and it is a good plan to make a fresh cut on the stems after you reach the storing room and before putting them into water.

Storing the Flowers.

Much has been written on the subject of a storing room for blooms, but I believe that any room, or cellar, which meets the following requirements, will be satisfactory: The air must be kept pure and sweet, and moderately dry, though a little continuously evaporating moisture is not injurious. It must not be totally dark. The temperature must be kept a few degrees lower than the night temperature of your greenhouse. In such a place the flowers should stand at least six hours, and may stand several days before packing. When kept more than twenty-four hours, the water should be freshened, and the stems recut every morning.

In handling blooms at all stages, especially with



CARNATION JOHN E. HAINES. GROWN BY JOHN E. HAINES, BETHLEHEM, PA.

varieties of intense color, such as Adonis, great care should be exercised to avoid bruising. This is a matter of great importance, as varieties of high color are especially easily bruised immediately after cutting, and if blooms are laid down on a rough board, or cement bench, or carelessly knocked together while carrying from the house to the cooling room, they will surely show the effect later, and on the observation of these minor points often hangs success.

All flowers which have an inclination to droop or hang their heads in the slightest degree, should be supported in a rigidly upright position. There are several methods of accomplishing this end. A wire ring, like an ordinary carnation support, may be attached to the jar in such a manner that it will act as a support for the blooms, and some people go to the trouble of tying a wire to each stem. Whatever method is used, the flowers must be supported from the very time they are cut, for the first two or three hours in water is the time when most of the stiffening and hardening takes place, and if the stems harden in a bent or curved position, subsequent supporting will be useless.

Packing and Shpping.

Like all other essential steps in the task of placing blooms in the exhibition hall, packing the flowers for shipment is an operation of the utmost importance. The aim being to get the blooms through in the most perfect condition, any extra attention which can be given to this work is certainly time well spent. The most important point is to prevent the blooms from becoming crushed, or mashed out of shape. This should be very carefully avoided, for if the broad bottom, or ray, petals become bent or pressed down, it is almost certain that they will not regain their proper form when set up for exhibition.

One of the simplest methods of accomplishing this



FRED. H. LEMON, ESSAYIST

end and one that is fairly efficacious, is to place the blooms upon pillows, or small rolls of paper, as long as the width of the box, and about 1½ inches thick. A more thorough method is to cut circular pastboard discs, the size of the blooms, with a hole in the center, large enough to slip over the stem and calyx, so that the disc will press against the back of the flower, holding the ray petals in a perfectly horizontal position. These must be used in connection with the pillows, and they keep the blooms in perfect shape—indeed, in many cases, improving the form of irregular blooms.

As to packing the blooms, there are as many different methods as there are exhibitors. If the shipment is a long one, we have found it a good plan to lay the ends of the stems upon wet tissue paper, and place a layer of wet tissue over every layer of stems, so that the ends of the stems, freshly recut, are all surrounded by moisture. The flowers should be packed with their heads all one way, and a cleat pressed firmly down near the lower end of the stems every fifth or sixth row.

For our Midwinter shows, very careful lining of boxes is necessary, so some expedient must be adopted to prevent the heavy layers of paper, which are turned over the top from resting on the blooms, as this will certainly press them out of shape.

If there are several boxes it is a good plan to mark the contents by classes on the outside of each.

If the discussion of this paper brings out a recipe for the safe and expeditious handling of the boxes by the express companies the writer will be devoutly thankful. The only rule we know is—"Give your boxes to the company and join the 'Don't Worry Club.'"

If your exhibit is small, however, an excellent method is to buy a cheap trunk; make three trays to fit in it, pack your flowers very firmly; fill your upper vest-pocket with cigars with bands around them, your lower pockets with quarters, and take it through as baggage. If you use this method you must not expect to "experunce the comforts of thravel," (to

quote Mr. Dooley), because it is necessary to follow the example of the elephant and stay close to your trunk.

Staging the Blooms.

Now, do not think because your blooms are fine, have been well packed, and have arrived in time, that the prize is won. It is impossible to over-estimate the value of staging the blooms properly. It is safe to assert that where there are a number of entries of almost equal merit, the blooms which are most perfectly staged have five points' advantage. This is mainly the result of "first impression on the judges." Judges are human and the most impartial man in the world cannot possibly avoid being influenced, to a certain extent, by his first impression, formed unconsciously the very instant his eyes take in the various entries.

The standard for an artistic parlor arrangement will not fit the exhibition. The aim here is to show every bloom in such a manner that it will emphasize the salient points of the scale for judging.

The blooms should be arranged evenly, if possible, not allowing any bloom to touch its neighbor. Every inch of stem possible should show above the vase; and the stems should be held very tightly at the bottom, in order to spread the blooms properly. It is frequently a good plan to use a smaller vase than the one supplied for the class, to accomplish this end.

When you begin unpacking, make a fresh cut on the ends of the stems as they are taken from the box; give the bloom a gentle downward rub with the hand to overcome any slight sleepy appearance, and lay them down on the table spread out so that each bloom may be examined. When one class is unpacked, carefully select and count out the exact number of blooms required for the class. Keep the scale of points in mind—evenness of color first, stem second, and size a close third. In arranging the blooms, select the longest stems first; take them up one at a time, and hold them by the extreme end of the stem, with the flower hanging down. Use the longest, strongest and straightest stems for a central bunch, placing the blooms exactly even. Work the blooms around this central bunch in circles, (if that expression may be used), turning the bunch in the hand, and adding blooms equally on all sides. Place the outer rows of blooms so that they will stand a little lower than the central bunch. When complete, place the whole bunch in a vase that will hold the stems as tightly as they have been held by the hand, and do not shove them too far down.

Study Color Effect.

After the blooms are arranged, a study of color effect in placing the vase is important. A light scarlet carnation may be fine, and deserve to win, but if placed next to a variety the color of Adonis, it will lose much of its effectiveness.

Fundamentally, of course, intrinsic merit in the flowers themselves, should win, but deep down in the heart of the florist who becomes the judge, is the artistic instinct which will not be denied, and in this day of close competition, a recognition of this fact, if combined with high grade stock, will aid materially in reaching the goal—first place against strong competition.

In summing up the points to be considered, one rule may be deducted—"if you want to win, nothing is too much trouble."

In the discussion which followed, Eugene Daille-douze said he used in packing flowers small strips of tissue paper soaked in water, with a swab, also wet, on the end of each stem, and flowers so treated required no recutting; he recommended as little handling of the blooms as possible. Every time a flower is handled, it is detrimental to it. A room with a temperature of from 40 to 45 degrees will be cool enough, provided there are not too many flowers to maintain them properly. He had had flowers keep ten days. To grow exhibition blooms one must start right, take good strong cuttings about March, pot them off, repot them and plant them under glass as early as possible, 12 by 12. Keep them pinched back, according to variety, and get the main crop in in time for exhibition. Mr. Witterstæter had kept flowers in good condition three weeks, and the water was only changed twice in that time; the temperature was 40, sometimes 38 degrees. A few drops of aqua ammonia proved beneficial in developing flowers. He cuts his blooms a little bit before fully developed, perhaps two or three days. The temperature he prefers is as near 45 as possible; 40 is too low, and 48 is a little too warm. A vote of thanks was passed to Mr. Lemon and other participants in the discussion.

The matter of a suitable floral offering to be placed on the late President McKinley's tomb was left in the hands of the directors.

The president appointed on the committee to arrange for shows of seedlings in the Fall, when the society's preliminary certificate will be awarded to meritorious varieties, Messrs. Ward, Lemon and Witterstæter.

A communication from the American Breeders' Association, asking the society as a body to become a member of same, was laid on the table.

The election of officers, a director and a judge, resulted in the nominees of the previous night being chosen, Messrs. Fisher, Herr and Dorner made suitable remarks, the former asking the co-operation of the members in the endeavor to make the Boston gathering a grand success.

Mr. Stuart, of Anderson, Ind., called attention to the financial needs of the experiment station of Purdue University in order to carry on its work under glass, explaining the action taken by the State Flor-

ists' Association of Indiana to petition the State Legislature for suitable appropriation, and asking the indorsement of the Carnation Society. This matter was discussed by Messrs. Ward and Valentine, it being pointed out that Purdue was among the few experiment stations that had evidenced any practical desire to assist the florists' trade and carnation growers in particular. A motion was passed authorizing the secretary to correspond with the Indiana State Florists' Association as to the form of indorsement desired to best secure the object aimed at.

Mr. Valentine moved that the society express sympathy with William Scott, of Buffalo, in his illness, hoping for a speedy recovery; this was unanimously carried.

On motion of J. A. Valentine, the secretary was instructed to convey to the family of the late E. H. Peirce, of Waltham, Mass., its sense of the loss of that gentleman.

The judges made an additional report on the vase of Red Lawson shown by Palmer & Son, an one of Variegated Lawson, exhibited by F. R. Pierson Co. Both were fine and worthy of special mention.

Mr. Stuart mentioned that Professor Arthur was willing to analyze soil or make other experiments for florists, even though not residents of Indiana.

The meeting adjourned at 4 o'clock, to reassemble in Boston at the same time of the year in 1906.

Peter Fisher,

(President-Elect American Carnation Society.)

Peter Fisher, of Ellis, Mass., was born November 4, 1857, at St. Colmes farm, parish of Dowally, Perthshire, Scotland, the home farm of the Duke of Athol, to whom his father was land steward for a period of



PETER FISHER
President-elect A. C. S.

nineteen years, and until his death, in September, 1861. Mr. Fisher received his early education in the parish schools of Dunkeld, Perthshire, Scotland, and at the age of fifteen years began to serve an apprenticeship of three years in the Dunkeld Gardens, the seat of the Dowager Duchess of Athol. There he remained for seven years, subsequently removing to London, England, where he was employed in the nurseries of B. S. Williams, Upper Holloway, and, later, in private establishments in the south and north of England.

Mr. Fisher came to America in 1884, landing in New York on June 22 of that year. He was first employed on the Payson estate, in Belmont, Mass., and, subsequently, at Oakley, Mass., on the estate of Robert M. Pratt, Esq. In company with his brother he started in business in a commercial way in September, 1886, under the firm name of Fisher Bros. & Co. Having sold out his interest in that concern, Mr. Fisher moved to Ellis, Mass., on May 31, 1899. Here he became actively interested in the carnation, in 1892.

In 1893, he raised the varieties Edith Foster and Freedom, both white varieties, crosses of Lizzie McGowan and Silver Spray. Edith Foster was disseminated in 1896 and Freedom in 1897. The now famous Mrs. Thomas W. Lawson carnation, cerise, was disseminated in 1900. The price at which this carnation was sold was \$11,500, the highest figure ever obtained for one variety of carnation up to that time. The Mrs. Thomas W. Lawson carnation was raised from Daybreak, crossed with Van Leewen, the former variety being the seed bearer, the latter the pollen parent, in color, cerise, resembling the variety, Tidal Wave. The seed was sown April 2, 1894, and the first flowers were obtained in September of the same year. The variety Mrs. Lawson has won five silver cups, two silver medals, a gold medal at the American Carnation Society meeting, held at Baltimore in 1901, and numerous other certificates of merit.

Another of Mr. Fisher's productions is the variety Governor Wolcott, white, which was disseminated in 1902. It was obtained from Flora Hill, white, crossed

with Mrs. Thomas W. Lawson, cerise, the former being the seed bearer. The seed of this variety was sown in March, 1898, and the plants bloomed the following September. It has been awarded numerous certificates of merit.

Enchantress, another of Mr. Fisher's productions, was raised from Mrs. George M. Bradt, crossed with Mrs. Thomas W. Lawson, in 1899. The seed was sown in March of that year; the variety first bloomed in the following August. Enchantress was introduced to the trade by the J. D. Thompson Carnation Company, of Joliet, Ill., to whom Mr. Fisher sold all the stock, less 3,000 plants for his own use, for the sum of \$7,000.



JOHN H. DUNLOP
Vice-President Elect, A. C. S.

John H. Dunlop,

Vice-President-Elect American Carnation Society.

Mr. John H. Dunlop, the newly-elected vice-president of the American Carnation Society, was born in New York City, January 7, 1855.

Moving to Toronto while very young, he there received a public school education, and later learned the trade of carpenter. After following that occupation for some time, he took up the florist business, and built his first greenhouse when he was twenty-five years of age. To-day Mr. Dunlop is one of the most enthusiastic men in the trade; as a producer of high-grade roses he has obtained a national reputation, both in the United States and Canada. His greenhouse establishment embraces over 100,000 square feet of glass, and he also conducts two up-to-date retail stores in the city of Toronto. He is a strong Horticultural Society man and a member of all the leading organizations in that line both in the United States and Canada.

The Banquet.

The banquet given by the Chicago Florists' Club and allied trades to the American Carnation Society occurred Thursday night in the auditorium. Fully two hundred were present and thoroughly enjoyed the excellent menu provided by this famous Chicago hostelry. Pres. W. N. Rudd, of the local club, presided, also acting as toastmaster, and acquitted himself in his usual acceptable way. Tables were beautifully decorated by Phil. Hauswirth. He welcomed the guests in a neat speech. The toasts included The American Carnation Society, responded to by Pres.-elect Fisher, who referred to the work of the society and to the fine flowers grown in Chicago. A pull together, unity of interest, would raise the standard of the flower and keep it at the front; he promised all a good time in Boston. Pres. Rudd stated that pulling together had won out for the society.

Frenzied Floriculture was replied to by E. G. Hill, who considered it a mistake to over-exploit anything, and thought florists suffered by it; reaction following misstatements. The public are inclined to look upon the trade as prevaricators; to a certain extent a truthful statement in regard to purchase price of a carnation should be made if necessary to be made at all. Judgment should be used in the matter of producing varieties and markets should be studied. The trade has been frenzied in regard to heating greenhouses; instead of getting the judgment of a heating expert, thousands of dollars had been spent in self-experimenting.

Mr. J. C. Vaughan, president Society of American Florists, responded to Conventions and Flower Shows. All should try to bring their friends to the conventions and explain to them the reason why they should go. Floriculture and horticulture are more in the public eye to-day and because of that attendance at conventions is necessary to plan to meet public demands.

The press is always ready to publish matter on horticultural topics, but the trade is not responsible for yellow journalism and its exaggerated statements. Mr. Vaughan spoke of the success of the St. Louis show and the influence of the press reports of that exhibition on the development of business. Conventions are for the good of every one in the trade, and he called for a record-breaking delegation to Washington next August.

The Good Old Times was responded to by Mr. Miller, of Beacondale, Ont., in an eloquent speech. C. W. Ward spoke on What About the Future; he said the improvement of the carnation, so far as size is concerned, is first begun; the four-inch carnation is already here; he believed we can get carnations six inches in diameter and expected to fulfill that prophecy during the next ten years. Improvement will be all along the line; better stores and better men will come in the next decade; profiting by present experience, the young generation will impress the business with their personality and have advantages greater than their forefathers commanded. Conventions will continue to remove jealousies, existing between tradesmen, and every member of each society will hold his own association in high esteem, while recognizing merit in all. The Florist has made his way, not only in the elevation of his business, but also in the elevation of himself. In fact, there are those among them who have reached that high state of culture where they can ask questions of a professor (laughter). He spoke of his grand reception in France by horticulturists. The florist calling is hound to improve the American nation, for the profession is one of the greatest educators we have. He advised giving floriculture our best endeavor and to pursue the flower while it wends its way onward and upward. (Applause.)

W. J. Lawrence, Toronto, treated the audience to a beautiful song; he is possessed of a fine tenor voice, and his rendition so pleased the audience that they demanded an encore.

The Lawson gold medal, awarded to Fiancee, was presented by Mr. Rudd to James Hartshorne in a pleasant speech, to which the recipient fittingly replied. The silver Lawson medal was presented to C. W. Ward for Robert Craig, and the bronze medal to Weber & Sons for My Maryland. Fred. Dörner, Jr., told of the great interest yet taken by his father in all carnation matters and expressed regret that he was not present on this occasion.

Mr. F. R. Pierson referred to the recent story of the \$20,000 carnation sale, but thought no harm was done by it; such reports added greatly to the profession and gave people an idea of the value of a carnation; the Lawson received a greater impetus from the \$30,000 story than it otherwise would have done. He spoke of the National Council of Horticulture, organized at St. Louis, and the good work that may be done by it in spreading useful information, settling intricate questions, and otherwise.

Other speakers were Lewis Ullrich, of Tiffin, O., who urged support of the McKinley fund, and Phil. Hauswirth, who hoped the West would go to Boston and make as good a showing there as the Middle States had done at Chicago. The proceedings were closed by Geo. A. Rackham with the reading of final resolutions and thanks by Mr. Rudd, on behalf of the Chicago florists, for the fine exhibits presented at the show.

The visiting ladies were treated to a supper in the auditorium annex on Thursday evening, afterward attending in a body the Studebaker Theater. The dinner tables were decorated with Palmer's Red Lawson carnation. The directors of the American Carnation Society have decided to offer at Boston, next year, a prize, amounting to one hundred dollars in cash divided as follows: Fifty dollars for first, thirty for second, and twenty for third, for best display of ten varieties, fifty blooms in a vase. The constitution and by-laws will also be revised.

Mr. Ward has come to the conclusion, after careful investigation and examination of the variety Victory shown at Chicago, that this carnation is not one of his seedlings, and except that for a short time he had some plants on trial last Summer he has never had Victory on his place.

So endeth in a blaze of success the Fourteenth Chapter of the History of the American Carnation Society.

List of Delegates.

Altick, H. M., Dayton, O.; Baer, H., Peoria, Ill.; Bartholomew, G., Dayton, O.; Bate, G. E., Cleveland, O.; Baur, A. F. J., Indianapolis, Ind.; Bertermann, E., Indianapolis, Ind.; Bertermann, J., Indianapolis, Ind.; Boehring, G., Bay City, Mich.; Buckbee, H. W., Rockford, Ill.; Buerlein, Peter, Elmhurst, L. I.; Bunyard, H. A., New York; Burkl, F., Allegheny, Pa.

Clark, W. A., Pittsburg, Pa.; Clelland, Jos., Grove City, Pa.; Cohn, Mrs. L. G., Manistee, Mich.; Coles, W. W., Kokomo, Ind.; Cushman, E. H., Sylvania, O.

Dörner, F. E., La Fayette, Ind.; Dew, A. H., Albion, Mich.; Dilger, Wm., Detroit, Mich.; Dudley, C. P., Parkersburg, W. Va.; Dunlop, J. H., Toronto, Ont.; Evans, J. A., Richmond, Ind.; Fisher, Peter, Ellis, Mass.; Foster, E. A., Cincinnati, O.; Frothingham, J. R., Tarrytown, N. Y.

Gans, N. H., Martintville, Ind.; Garland, E. W., Washington, Pa.; Gasser, J. M., Cleveland, O.; Goetz, W. T., Saginaw, Mich.; Gullett, C., Lincoln, Ill.; Guy, E. M., Belleville, Wis.; Hagenburger, Carl, West Merton, O.; Haines, J. E., Bethlehem, Pa.; Hart, H. A., Cleveland, O.; Hartje, J., Indianapolis, Ind.; Hartshorne, Jas., Joliet, Ill.; Hasselmann, F. G., Indianapolis, Ind.; Hayes, R. B., Shelby, O.; Hellscher, Wm., Detroit, Mich.; Heiter, Chas. G., Kansas City, Mo.; Herr, Albert M., Lancaster, Pa.; Hill, E. G., Richmond, Ind.; Hoffman, Chas., De Haven, Pa.; Holz-nagel, Frank, Detroit, Mich.; Huckelde, T., Indianapolis, Ind.

Jablonsky, A. J., Wellston, Mo.; Jensen, J. E., Joliet, O.; Johnson, C. W., Rockford, Ill.; Joy, J. C., Nashville, Tenn.;

Kasting, W. F., Buffalo, N. Y.; Kelffaber, Mr., Dayton, O.; Kellogg, G. M., Pleasant Hill, Mo.; Knickman, C. B., New York; Knopf, C., Richmond, Ind.; Koenig, O. J., St. Louis, Mo.; Kroninger, E. N., Allentown, Pa.; Krueger, H. J., Meadville, Pa.; Kuhl, Geo. A., Pekin, Ill.; Kunzman, C. H., Louisville, Ky.

Lamborn, L. L., Alliance, O.; Mattson, G. H., Chester Heights, Pa.; Meinhardt, F. St. Louis, Mo.; Menze, Felix, Glen Cove, N. Y.; Merkel, M. C., West Mentor, O.; Murchie, J. Sharon, Pa.; Murray, S., Kansas City, Mo.; Newby, L., Logansport, Ind.; Nicholson, Wm., Framingham, Mass.; Noble, D. C., Columbus City, Ind.

Patten, M. A., Tewksbury, Mass.; Pennock, S. S., Philadelphia, Pa.; Peterson, A., Paxton, Ill.; Peterson, J. A., Cincinnati, O.; Peterson, Swan, Gibson City, Ill.; Pierce, C. A., Waltham, Mass.; Pierson, F. R., Tarrytown, N. Y.

Rockham, Geo. A., Detroit, Mich.; Reimels, John, Woodhaven, L. I.; Rolker, W., New York; Rudd, W. N., Mt. Greenwood, Ill.

Schmitt, C. A., Cleveland, O.; Shaw, J. Austin, New York; Sim, Wm., Cliftondale, Mass.; Skidelsky, S. S., Philadelphia, Pa.; Smith, Henry, Grand Rapids, Mich.; Smith, H. C., Piqua, O.; Steidle, J., Central, Mo.; Stoll, O., Detroit, Mich.; Strond, E. A., Stafford, Pa.; Stroup, T. B., New Philadelphia, O.; Stuart, J. S., Anderson, Ind.; Sullivan, J. F., Detroit, Mich.; Sunderbruch, A., Cincinnati, O.; Swayne, Wm., Kennett Square, Pa.

Talpkie, G. H., Detroit, Mich.; Thompson, J. D., Joliet, Ill.; Trudde, F., Joliet, Ill.; Ulrich, L. & Son, Tiffin, O.; Valentine, J. A., Denver, Col.; Van Rochove, J. R., Kalamazoo, Mich.

Walker, J., Youngstown, O.; Wallace, Alex., New York; Ward, C. W., Queens, N. Y.; Warwick, G. H., Washington, Pa.; Weber, F. C., St. Louis, Mo.; Wilcox, J. F., Council Bluffs, Iowa; Williams, F. R., Cleveland, O.; Witterstetter, R., Cincinnati, O.; Wyland, John L., De Haven, Pa.; Zweifel, N., Milwaukee, Wis.

The Canna.

By L. H. READ, Fruitdale, Ala.

This beautiful plant is one of our favorites; therefore we have devoted considerable space to its cultivation, as well as much time to its study.

It is but a few short years since the improved large-flowered types came into cultivation. We can remember when only the old small-flowered Indian shot varieties were available. But the last few years have brought out a multitude of new sorts, many of which are very fine, either as single specimens or as a help to make out a collection.

We have bought and grown many of the newer sorts of recent introduction, as well as those known as standard varieties, and although we admire them all, yet we can see defects in many varieties. And the object of this series of articles upon this plant is two-fold: First, to create a greater interest in the canna, and, secondly, to show the grower the defects as well as the good points of the many varieties in cultivation.

With the constant improvement that is going on and that will continue to go on for years to come, we should never say, as some dealers do say, "that we have a dozen of the standard sorts, and that is enough!" Although several of the first among the large-flowered, or Crozy type, are still among the popular favorites, it is but a question of time when these first favorites will all be superseded by those that are better.

We do not, however, advocate the entire suppression of the older sorts, for we think that for those who have the room to grow them a collection of as many varieties as possible is one of the most interesting displays that one can make.

We have been growing about one hundred named sorts, besides our own new seedlings, and wish to add at least as many more varieties to our list this season. Quite a few of them will be among the older varieties, as we wish to be able to show to every visitor the great advancement that has been made in the cultivation of this beautiful flower.

We have a criticism to make of the propagators of new sorts: They have worked toward the production of a larger blossom without regard to the beauty of the plant. We believe this is a great mistake. A plant with beautiful foliage is just as desirable as one with a large blossom. Of late there has been great effort put forth to produce varieties with bronze foliage and large blooms, and in making the combination they secured the large flower, but, in most cases, did not retain the beautiful form and coloring of the foliage. We know of but two varieties that one can say were a pronounced advance in both flower and foliage over older sorts of the bronze foliage kinds; these are Brandywine and King Humbert. But we would like both of these varieties better if they were taller.

We think another mistake has been made in trying to see how dwarf a plant can be produced. Such varieties as Express and Philadelphia would be far better, in our opinion, if they were taller. The canna is a plant of tropical appearance, and a bed of plants, 5 to 8 feet high, has far greater beauty, we think, than a dwarf one that is only 2 feet high. If one wants a low bed, why not use geraniums or phlox? The effect will be better. But when we plant a tropical plant, select one that has a look of massive beauty, with its broad leaves of green or bronze.

We aim at the production of the best foliage possible in our production of new varieties, combined with as wide a range of colors and combination of colors as we can get.

(To be continued.)

The Florists' Club, of Columbus, Ohio, had a smoker Tuesday of last week. A program of music and impersonations afforded the members several hours of enjoyment at the club rooms, on South High street. Paul Moore impersonated a Dutch comedian, and one of the hits of the evening was made by T. J. Ludwig in a German recitation.

OUR READERS' VIEWS

(Contributions to this Column are Always Welcome.)

More Lawson Sports.

Editor Florists' Exchange:

We have a light pink sport of Lawson that promises well and which we intended exhibiting at Chicago this week; but we cut it back hard in December to increase our stock, and although we have a fine crop of blooms coming on, they will be a few days late for the show. We expect to send this variety out in 1906, if it keeps up its present reputation. We hope later to be able to furnish you some interesting pictures, especially of the Lawson, as we have three of them—white, light pink and dark pink—growing at our place.

F. R. THORNTON.

Streator, Ill.

The Tales of a Traveler.

First Impressions of California.

After crossing the almost desert plains of New Mexico and Arizona, one finds oneself as if by magic transferred to a different world. The wonderful growth of vegetation and the beauties of California are all the more striking when compared with the arid plains and the treeless hills which are passed before this land of sunshine and flowers appears to the eye of the traveler. The most striking feature of it all is the growth which all plants seem to make so rapidly in this climate, and the immense size which the palms and the flowering plants attain in such short spaces of time. In direct contrast are the dry plains between the various towns; for here, as in all the localities where the rainfall is slight, irrigation is depended upon, and without water nothing can be grown with profit. We do, however, see extensive vineyards which are not irrigated, but the citrus fruits, on which the business of this part of the State depends, must have abundant irrigation. The enterprise of the East has made this what it is, and the many towns are made beautiful by the homes of people of wealth from our Eastern States, who spend the Winter in this part of California, and who have, by good cultivation and a knowledge of landscape work, taken advantage of the possibilities of plant growth to build up and adorn these many beautiful spots, which, without water, would be forbidding deserts.

The fact that the climate favors rapid growth is taken advantage of by many firms who are interested in nursery work, and returns are very quick. Stock can be produced in one season which will equal in size that grown in the East for two seasons. The long growing period here will in one season yield more wood than any two New England Summers could produce.

It was my good fortune to have a little time in that beautiful town, Riverside. Here we see the orange grown to perfection, but the better paying crop of tourists can be more depended upon, and the town can boast of the finest hotel in all California with which to extract the needful from them.

Eastern industry has here shown the possibilities of the section and the business of growing roses in California for the Eastern trade is carried on by the Chase Rose Company, on a very large scale. The noticeable feature of this business is the absence of expense. The place consists of several low greenhouses, a large number of hotbeds and perhaps twenty acres of nurseries. In these hotbeds the cuttings are rooted. Sand comes from the river bottom. A layer of manure in the bottom of the bed gives enough heat, and the cuttings are placed in the beds, much as a cutting is put into the bench in the East. They root slowly, but a good percentage do root, and the crop is then potted off and allowed to stand for some time in the low greenhouses. When well rooted in pots they go into the field. Very little stock is allowed to get over one year old, and these same plants give the wood for the next year's crop. Cuttings are taken in October and make sizeable plants for the next Fall sales. About 500,000 plants are grown yearly at this establishment, and while the largest percentage are hybrids, there are many teas. The tea roses are mostly sold in this State, but the hardy varieties supply the East with their roses for outdoor planting. This firm is a connection of Chase Brothers, of Rochester, N. Y., which accounts for their knowledge of business industry and thrift.

Some little heat is required during an occasional chilly night in the houses, and water heated by an oil burner gives them the heat required. Here again they have an advantage, for crude oil is produced in California in such quantities that it is a very slight expense.

Civilization moves Westward, and allowing for a decent space of time the tourist follows, and with this class comes the florist, for the native of the State does not need to buy flowers. The Winter population of the State is very large, and on the Winter residents the so-called florists must depend. Strolling up the main street of Riverside I stopped to visit one of its florists, whose greenhouses were along the street, and the crude methods of the place were an eye-opener to me. A house of laths and only a small house, which was filled with hot air and emptiness, made up the establishment, and yet in this lath house there was considerable business being done. Asparagus Sprengeri and plumosus, palms, etc., were the principal items, and these were moving along to their Winter homes in a very lively manner and at good

prices. "Where do you get your Sprengeri?" I asked, and he of the lath house replied, "Oh, it comes up around the sides where the seeds happen to fall." I was satisfied, and could only think how fortunate some people are. Tin cans were in many cases the receptacles which held the plants, but still they sold, and one can but wonder what the same people who bought them would say of the same stock and the same methods on their native heath.

W. R. PIERSON.

Contrastive Conditions of the Boston Market

Editor Florists' Exchange:

While I cherish no desire to monopolize the columns of your valuable medium, by promoting a lengthy controversy, still I cannot refrain from expressing the amusement and interest afforded me while reading your correspondent's response to my communication which appeared in the previous issue of the Exchange.

His efforts to belittle my remarks are worthy of more than passing note, for, instead of imparting to me the information I had sought in a kindly and intentionally friendly way, your correspondent retaliates by indulgence in the "art" of mud slinging, accusing me of being evidently ignorant of the business ways and customs incidental to floral business in a great city. To the reader versed in both sides of this argument it will readily appear that this remark is wholly uncalled for, inasmuch as my inability to understand market quotations in comparison with the market conditions as I had found them throughout the Winter, was the object of my inquiry.

Among the expressions selected at random by your correspondent, and subjected to ridicule, is the fact that I asked for quotations on cut flowers from growers. Could this be reasonably termed another instance of gross ignorance when the words "Cut Flowers at Wholesale and Retail," or an announcement to that effect, greeted the eye upon the letterheads, and in many instances upon the gateposts of every party with whom I communicated? And, again, all Winter long I had read in your correspondent's reports that white carnations were plentiful and in little demand; so being in want of these goods I thought I might be able to find the same among the growers, and, being aware of the comparatively high prices which wholesalers had quoted me at weekly intervals, I knew I could not deal with them (the dealers) to mutual advantage.

The growers seemingly appreciated my inquiries, thanking me for the same, and expressing regret at their inability to supply me. Again, your correspondent used language wholly unnecessary when he would have your readers infer that I placed the dealers in the role of a forecaster, by asking for quotations long before they knew what the demands and conditions of the trade would be. Here, too, has your correspondent drawn a wrong conclusion; for I was in communication with the wholesalers at frequent intervals and on each and every occasion was their prices fully \$1 per hundred in advance of your correspondent's quotations of same date.

In December 31 issue of the Exchange, Boston market reports for December 27 were: \$1.50 to \$2 for common stock in white; \$2 to \$3 for fancy grades of white. The house to which your correspondent in his self-styled spirit to "help anyone along" referred me, as contained in the last paragraph of his letter, charged me (and I paid them) \$4 per hundred for the common grade white carnations, on December 27; the variety was Queen Louise; cash accompanied order.

Elsewhere, in Boston, \$4 to \$6 per 100 was the wholesale price quoted direct to me on December 27; therefore, if white carnations of any grade could have been bought at \$1.50 to \$3, common sense arises with me when I venture to ask, where?

Nor is December 27 the one and only date, when I found these conditions apparent. I could, if necessary, produce correspondence (from Boston) sent me weekly, during several weeks previous, which, when brought into comparison with the Boston market reports, will substantiate every statement I have made.

Your correspondent's efforts to "help along" and enlighten me consisted of a postal stating "If you are good for what you say in your letter in the Exchange, _____ of Boston, will supply you at a lower price than I quote for first-class stock." The place to which he referred me was one where I had found conditions as previously explained in this controversy, and because I did not see fit to immediately rush on an order, your correspondent, who, by the way, seems to be deeply concerned in this particular house, would have your readers form conclusions and believe me an impostor; that I am ignorant; that I never did nor never will buy a carnation. These are the impressions he presents in response to a business inquiry, substituting personality for business policy and leaving the situation as problematical as before.

In view of these impressions, it may interest those directly and indirectly concerned, to learn that since October 1, 1904, I have dropped over \$2,200 in "long green" into the pockets of New England florists, whose products were the direct inspiration of pleasure which hundreds of individuals found at church, society, private and public enterprises and functions.

Not for a moment do I question the fact that white carnations are, or have been, a drug on the market; but, despite these conditions, my experience prompts me to question the ability of any man to buy at Boston market quotations. I have cast no insinuations as to the right or wrong of any one; no intentional malice has by me been extended to any one; I have visited the market and have been unable to find conditions as your correspondent portrayed. I have openly expressed the facts as revealed to me; in conse-

quence, I am placed by him in the class of the ignorant. Others may have become financially "wise" through my experience, but I am certainly still ignorant, and free to admit it, and as my ignorance was the inspiration of this controversy I am perfectly contented to rest the same and enlist the subject and cause of "Contrastive Conditions of the Boston Market" in the vocabulary of mysterious things that cannot be explained.

A CARNATIONIST.

A Subscriber's Suggestions.

Editor Florists' Exchange:

Herewith another big dollar; and while I have to use the pen and spend 2c. for postage I might as well make the letter carry its full weight.

Now, Mr. Editor, the cut flower growers, especially, can't kick because they don't get enough valuable information from the pages of your paper, for not only are the proper methods of culture thoroughly described by experienced growers, but also the novelties are given a free discussion; while those who are anxious or forced to build or rebuild can find the necessary points thoroughly explained, if they would only take the time to read it. And the unlucky whose plants are so sadly troubled with lice and diseases always seem to find you willing to put the important questions before your readers and publish the answers in a following issue, even if these same questions were answered and published perhaps two or three weeks ago. A question box always contains some valuable information and should not only be read, but studied carefully for future use and reference. A question box often invites a general discussion, is the one cheap and reliable attorney for advice when in doubt or trouble and should be used by a much larger number in the trade—employees as well as employers. But let us look over a few back numbers to see if, practically, the same question has not been answered shortly before, thus saving trouble and expense.

Timme's Timely Teachings provide a free course of horticultural education, and the young fellow who reads The Florists' Exchange and a woman's magazine, full of love stories, should have just enough love left for Flora to read Timme's first.

I like to read Mr. Meehan's articles on the various kinds of trees, shrubs, vines, evergreens, etc., and especially since I have moved to my Summer and Winter resort of the lovely Northwest, where our mild climate drops its temperature sometimes to 40 or 50 degrees below zero. But I am sorry to say that Mr. Meehan and the other able writers on hardy nursery stock, and also hardy perennials, do not always give the lowest temperature, as far as is known, that those hardy plants have stood. If this could be given, or the furthest point north they are known to be hardy, this would be a valuable addition, indeed. And this is where our catalogue men are missing it, for many vines, shrubs, trees, perennials, etc., are simply called hardy, and do not even stand the Winters in Central New York State, or Ohio. And, although we cannot grow here a liquidambar or a Japanese iris and many other beautiful trees, shrubs, vines and perennials, yet we have the beautiful hydrangea paniculata grandiflora, peony, and hundreds of other things that are beautiful and admired by our prosperous wheat-growing farmers; while the cut-leaved birch, elm, mountain ash and linden play an important part for shade and ornamental purposes.

The year 1904, with all its glory and prosperity, saw many improvements; but the wage scale is still among our unfinished business. We are but poorly paid for our many years of study and experience, compared with other trades, and this is undoubtedly one of the causes of scarcity of good experienced help and "the failure to encourage the young men to learn the greenhouse or nursery trade."

Another very weak point in our trade is the fact that some very good young men are held down for several reasons without any good cause. It is true that in some establishments the foreman occasionally gets his "throat cut" by some "sucker," but it is also true that some foremen are too anxious to keep their jobs and do not give the young, industrious and attentive man the credit he deserves. One of several of these cases I have in mind is at a place where 80,000 rose cuttings were put in, and the foreman looked after them himself until the nineteenth day, when he had to go away for two days, and he gave another man orders to look after them, telling him just how and what to do. The entire batch was a failure, only about 7,000 being rooted, and the foreman blamed the other fellow for not attending to them as he was ordered. Now, any one acquainted with Summer propagation of everblooming roses in hotbeds will agree with me that when such cuttings have been in the beds eighteen days they are long past the danger mark, as I have often found them well rooted and potted up when twenty-one days in the bed. The foreman had this man discharged, but, as it happened, the proprietor looked into this case a little deeper than usual and put the man back in his former place. Where a man is in charge and shows his ability by the success he has made, he need not fear a "sucker," as they never last, any way; but the young man who is trying his best and is interested in his work should be given full credit for what he does.

Now, in conclusion: Job, you are a crank and an everlasting never-satisfied kicker, worse than one of Buffalo Bill's wild ponies. But go on, old man; am pleased we have at least one nifty old soldier in our large army. And when Job gets tired, let us hope and wish that his young (?) daughter will take up her pen and finish the part that her papa left undone.

Minnesota.

DUTCHY.

CLUB AND SOCIETY DOINGS

New York Botanical Garden.

The annual meeting of the Board of Managers of the New York Botanical Garden occurred January 9. The report of the director, Dr. N. L. Britton, showed that 12,053 species of plants were represented in the collections during the year, an increase of 451 over 1903. A large number of specimens have been replaced by better ones of the same species, and the number of individual plants cultivated in the conservatories has been somewhat reduced by the elimination of imperfect specimens or of duplicates, many of which have been sent to other institutions in exchange. The director recommends that plans be prepared for the construction of another range of greenhouses, the present capacity of the public conservatories for the housing of plants having nearly been reached. With the intention of building an additional range of glass, the present range was designed essentially for tropical plants of large or of considerable size, deferring the construction of smaller houses to the future. This proposed new structure, says Dr. Britton, should have a floor area at least as great as the present range, and, "even with this development we would not have as much glass as has been found necessary at the Royal Gardens at Kew, England, where a very much milder climate permits the cultivation of many more species out of doors.

"It seems desirable from the present development of the Garden, that this proposed new greenhouse should be built east of the Bronx river, in order to establish it at a considerable distance from the present conservatories and from the Museum building, and to provide a prominent feature on the east side of the grounds, which will probably soon become easily accessible from the south by the extension of the rapid transit system. It will be desirable to design this proposed new structure in such a way that it may be built in sections, necessitating no very heavy expenditure during any one year, and to include in it space for considerable floral display."

The past year Dr. Arthur, of Purdue University, Indiana, spent a month at the Garden, during which time he made some critical studies of the Uredineæ (rusts) for the purpose of completing his investigations of the polymorphism of these interesting parasites, which spend portions of their life-cycle on different species of plants.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.—President Vaughan has appointed Messrs. E. V. Hallock, of Queens, N. Y., and W. H. Elliott, of Brighton, Mass., to serve as directors for the three-year term beginning January 1, 1905; also the following gentlemen to serve as State vice-presidents for the year 1905:

Alabama, Hugh Seale, Birmingham; California, Hans Plath, San Francisco; Colorado, J. A. Valentine, Denver; Connecticut, John Coombs, Hartford; Florida, C. D. Mills, Jacksonville; Georgia, A. C. Oelschig, Savannah; Southern Illinois, John Willis, Danville; Illinois, P. J. Hauswirth, Chicago; Indiana, Irwin C. Bertermann, Indianapolis; Iowa, Theo. Ewaldt, Davenport; Kansas, C. P. Mueller, Wichita; Louisiana, Harry Papworth, New Orleans; Maryland, R. Vincent, Jr., White Marsh; Massachusetts, W. W. Edgar, Waverly, and Thos. Collins, Hinsdale; Michigan, Henry Smith, Grand Rapids, and R. G. Boehring, Bay City; Minnesota, O. J. Olsen, St. Paul; Missouri, W. J. Billmore, St. Louis; Western Missouri, Albert Baibe, Kansas City; New Jersey, C. W. Turley, Haddonfield; Eastern New York, F. H. Traendly, New York City; Western New York, George W. McClure, Buffalo; North Carolina, James M. Lamb, Fayetteville; Northern Ohio, James Eadie, Cleveland; Southern Ohio, H. M. Altick, Dayton; Eastern Pennsylvania, H. H. Battles, 108 S. 12th street, Philadelphia; Rhode Island, Arthur Griffin, Newport; South Carolina, C. A. Moss, Spartauburg; Texas, H. Kaden, Gainesville; Virginia, C. Ponnet, Alexandria; Wisconsin, W. A. Kennedy, Milwaukee, and Geo. Vatter, Marinette; Ontario, T. W. Dugan, Brampton.

WM. J. STEWART, Secretary.

MASSACHUSETTS HORTICULTURAL SOCIETY, BOSTON.—Theodore F. Borst was the speaker at the weekly meeting of the Massachusetts Horticultural Society on Saturday last. The subject was, "Forest Planting for Profit in Massachusetts," and by using stereopticon views the lecturer made his subject all the more interesting to the audience. After briefly referring to the importance of forests and how indiscriminate cutting in the past had reduced the supply, the speaker took up the problem of how forests should be planted, how seedling trees are raised and how a plantation should be properly made and cared for with profitable results. A very interesting part of his subject was his showing how tree seeds were collected and cared for in the nursery. Mr. Borst spoke of the many thousands of acres of land in Massachusetts that could be profitably planted to forest trees, at comparatively slight expense, and gave data to show the actual cost per acre. He recommended white pine, chestnut, hickory, ash, oak, maple and tamarack as the most suitable trees for planting in this State, but said that under certain conditions

Mr. Borst strongly commended the planting of waste lands that are now bringing no returns, and his lecture throughout showed strongly that timber planting could be profitably carried on in this State.

J. W. D.

THE AMERICAN BREEDERS' ASSOCIATION.—The second annual meeting of the American Breeders' Association will be held at the College of Agriculture, Champaign, Ill., February 1, 2 and 3, 1905; the meeting convenes Wednesday, the first day, at 1.30 p. m. The Wednesday and Thursday afternoon sessions will be entirely devoted to the plant section.

Wednesday afternoon the following papers will be read: "Breeding Nitrogen Fixing Clover Bacteria," Dr. George T. Moore, U. S. Department of Agriculture; "Breeding Grapes," Mr. T. V. Munson, Denison, Tex.; "Improvement of the Strawberry by Selection," F. E. Beatty, Three Rivers, Mich.; "Carnation Breeding" (lantern slides), C. W. Ward, Queens, N. Y.

The program for the Thursday afternoon is as follows: "The Breeding of Disease Resistant Plants," W. A. Orton, U. S. Department of Agriculture; "Breeding Wilt Resistant Flax," Prof. H. L. Bolley, Experiment Station, Fargo, N. D.; "Breeding Mildew Resistant Sand Cherries," Prof. N. E. Hansen, Experiment Station, Brookings, S. D.; "The Breeding of a Hardy Alfalfa," Prof. W. M. Hays, Assistant Secretary of Agriculture; "Breeding New Cotton Varieties for Boll-Weevil Infected Regions," A. W. Edson, Department of Agriculture; "Cotton Breeding for Earliness and Productiveness," Prof. R. L. Bennett, Texas Agricultural College; "Plant Improvement by Hybridization," H. H. Groff, Simeco, Ont.

Among papers for Friday morning are: "Heridity," Luther Burbank, Santa Rosa, Cal.; "Explanation of Mendel's Law," Dr. H. J. Webber, Washington, D. C. Friday afternoon: "Inbreeding Plants" (moving pictures), Prof. W. M. Hays, Washington, D. C., will be read among other papers.

In all, a most interesting program has been arranged, one that will undoubtedly arouse the enthusiasm of all interested in breeding, whether it be plants or live stock. Railway tickets may be had on the certificate plan.

ANNUAL MEETING OF STATE ASSOCIATION OF INDIANA.—The State Florists' Association of Indiana held its annual meeting at the Commercial Club, Indianapolis, January 17, and later gave a show of carnations at the State House. The organization will give its support to the show of flowers to be held next Fall in Indianapolis by the Indiana Floral Festival Association. The following officers were elected: President, Fred Lemon, Richmond; vice-president, Herman Junge, Indianapolis; second vice-president, John Rieman, Indianapolis; secretary, Fred Hukreide, Indianapolis; treasurer, John Heidenreich, Indianapolis. Executive Committee—J. E. Haugh, Anderson; Gunnar Teilmann, Marion; J. A. Evans, Richmond, and E. A. Nelson and Adolph Baur, Indianapolis.

It was reported that the floral experiment station at Purdue University may be forced to close from lack of funds. A committee of florists was named to investigate the report, and if it is found to be true the State association will ask the Legislature to give financial aid to the station.

The Bertermann Bros. Co. won a certificate of merit with a new seedling carnation at the State House.

BOSTON GARDENERS' AND FLORISTS' CLUB.—At the meeting of the Gardeners' and Florists' Club, January 17, which was reported last week, the following recommendations for awards were made by the Committee on Exhibits: Certificate of superior merit to Guttman & Weber, for carnation Victory; certificate of superior merit to E. O. Orpet, for cattleya + Susanne (C. Skinner + C. Warner); certificates of merit to Cottage Gardens, for carnations Ethel Ward, Robert Craig and President; to Charles Sander, for begonia Tunford Hall, and to Palmer & Son, for carnation Red Lawson. A seedling carnation (white) from Ernest Wild was highly commended and requested to be exhibited again. Vote of thanks was passed to E. O. Orpet, for seedling orchids; to Wm. Sim, for sweet pea Mont Blanc; to Alex. Ogg, for Lillium Harrisii; to Jas. Wheeler, for begonia Vesuvius; to H. A. Stevens & Co., for carnations; to Thos. Waldie, for seedling carnations; to Baeker & Co., for carnations.

J. W. D.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.—The Executive Committee met in Springfield, January 18. The principal business transacted was the selection of a place for holding the annual convention, Buffalo, N. Y., was the city selected, the meeting days being June 28, 29, 30. It was also decided to print the bulletins of the association, which are becoming more and more valuable as the membership of the association increases. A very enjoyable day was spent in Springfield visiting the very pretty park which that city possesses. Unfortunately, three of the members were unable to be present, on account of sickness. Those attending were: J. F. Cowell, Buffalo; W. S. Egerton, Albany; Byron Worthen, Manchester, N. H.; Jas. Draper, Worcester, Mass.; J. A. Pettigrew, and J. W. Dunean, Boston; Theo. Wirth and G. A. Parker, Hartford, Conn.; G. X. Amrhy, New Haven, Conn.; C. E. Keith, Bridgeport, Conn.

J. W. D.

MONMOUTH COUNTY HORTICULTURAL.—The semi-monthly meeting of this society was held at Oceanic, N. J., January 20; our visitors were Mrs. Charles H. Totty, Madison, N. J.; Alfred Richart, New York; Anton Bauers and John Schackla, Deal Beach, N. J. G. H. Hale exhibited some *Primula obconica grandiflora* and *Grandiflora rubra*, for which he received 90 points. Mr. Turner showed some very fine carnations, Harlowarden, Enchantress and Governor Wolcott, which scored 85 points. Mr. Kettel was asked how he raised such fine tulips at such an early date as December 15. They had stems 9 inches and over in length. He explained that when they are boxed he just leaves them outside without any covering whatever for about three or four weeks; then he puts them in a cool cellar and covers them with about one foot of salt hay. When he puts them in the house he covers them with an empty box to draw them.

The society decided to hold the annual ball on February 10. Remarks were made by Charles H. Totty, Alfred Richarts, H. A. Kettel, N. Butterbach, A. G. Williams and others. The judges of the evening were W. W. Kennedy, A. G. Williams and Percy Hicks.

B.

THE NEWPORT (R. I.) HORTICULTURAL SOCIETY held its regular meeting for the month last Wednesday, with a very good attendance, President James J. Sullivan in the chair. The matter of the prize schedule for 1905 came up for discussion, and quite a difference of opinion developed regarding the number of large public exhibitions to be held by the society during the coming year. Several of our best members wish to do away with the rose and strawberry show of June and have one very elaborate exhibition, say in August, to take the place of both the June show and the annual exhibition, which for some years has been held the latter part of September. There has been a feeling for some time that a fine exhibition, held in the Casino, or equally fashionable quarter, when society is here in full force, in August, could be made an annual function with the "Four Hundred" the same as our horse and dog shows are now. Such an exhibition once "the thing," the financial part would be assured. It is no easy matter to decide just what is best to do under all the circumstances. There is to be in Rhode Island a Federation of Agricultural and Horticultural Societies, and our treasurer, Andrew K. McMahon we have chosen as a delegate thereto. We have also selected a Building Committee of five members to advance the "ways and means" to the end that we have a home of our own as soon as we can possibly compass it. This committee consists of Andrew K. McMahon, James J. Sullivan, Andrew S. Meikle, John Mahan and David McIntosh. It has been recommended by the Executive Committee, and approved by the society, that "no money be expended from our building fund without a two-thirds vote of all the active members of the society." It appears that by mistake sixteen members were chosen on the Executive Committee at the annual meeting, in December last, instead of fifteen, as called for in our by-laws. In order to simplify matters, M. B. Faxon resigned from this committee. The society has hired an upright piano for the use of its members. John Robert Clarke, the seedsman to the George A. Weaver Co., was proposed for active membership. Mr. H. B. Odell, of Weeber & Don, New York, was with us at this meeting, and we were very glad to see him. Our next meeting will be held Wednesday, February 1, when Professor Barlow, of the State Agricultural College, will deliver his lecture on "Economic Insects and Bird-Life."

F. W.

Show Chrysanthemums in England.

In the issue of the Gardeners' Chronicle, London, for December 24, 1904, a correspondent contributes the subjoined information regarding prize-winning varieties of chrysanthemums exhibited at the English shows the past season: "The following twenty-four varieties of Japanese chrysanthemums have proved themselves to be the most generally good this season. Their names have been taken from the winning prize stands of thirty-six of the principal shows in the country. I have given them in their order, with the number of times shown. It will doubtless be helpful to those just making a collection for exhibition purposes, and interesting to practised exhibitors. Included are the best six novelties of last season (according to the exhibits)—a guide for those requiring up-to-date varieties:

Position.	Name.	Times Shown.	Position.	Name.	Times Shown.
1.	F. S. Vallis	92	13.	Madame Gustave Henry	21
2.	Bessie Godfrey	79	14.	Madame Carnot	20
3.	Madame P. Radaell	58	15.	Miss Mildred Ware	19
4.	Mrs. F. W. Vallis	49	16.	M. V. Venosta	19
5.	W. R. Church	46	16.	M. A. M. Nagel-machers	19
6.	Mrs. Barkley	38	18.	M. Louis Remy	19
7.	Duchess of Sutherland	35	19.	J. Lawrence	16
8.	Mrs. G. Mileham	35	20.	J. H. Silsbury	15
9.	General Hutton	30	21.	Miss Elsie Fulton	13
10.	Mafeking Hero	28	22.	Mrs. Bryant	12
11.	Mrs. Mease	27	23.	President Viger	12
12.	Henry Perkins	25	24.	Lady M. Conyers	12

The following are the six best newer varieties:

Position.	Name.	Times Shown.	Position.	Name.	Times Shown.
1.	J. H. Silsbury	15	4.	Mrs. J. Hadaway	6
2.	Mrs. J. Dunn	8	5.	Beauty of Leigh	4
2.	Valerie Greenham	6	6.	Maud du Cros	4

The King of All Scarlet Carnations

THE NEW SCARLET SEEDLING

ROBERT CRAIG

C. W. WARD, Originator

IT HAS BEEN AWARDED THE FOLLOWING HONORS

- Preliminary Certificate**
American Carnation Society. 92 points.
- Special Diploma**
American Institute of New York.
- First Class Certificates of Merit**
Massachusetts Horticultural Society.
Pennsylvania Horticultural Society.
New York Florists' Club. 89 points.
Confirmatory Judgment (1904)
New York Florists' Club. 93 points.
- First Class Certificate of Merit and Special Prize, Morris Co. (N. J.) Gardeners and Florists' Society.**
- Craig Cup, for Best Undisseminated Seedling, Philadelphia, 1904.**
- G. Hartman Kuhn, Special Prize for Best Undisseminated Seedling, Philadelphia, 1904.**
- First Prize for Best 100 Blooms Scarlet, Chicago, 1904.**
- First Prize for Best Scarlet Seedling, Chicago, 1904.**



WILL BE READY FOR DELIVERY ON DECEMBER 1st, 1905

No Cuttings Will Be Delivered Before That Date

THE IDEAL CHRISTMAS CARNATION

An enormous bloom on an ideal stem; same habit as the well-known J. H. Manley, but much stronger and more vigorous from every point of view, and will prove as free a bloomer. May well be termed **A SCARLET LAWSON**. An authentic descendant of the **Lawson**, which was the pollen parent. A grand $3\frac{1}{4}$ to $3\frac{1}{2}$ inch bloom, grand form, perfect calyx, fine fragrance, and just the color of the **Holly Berry**. There is **no doubt** about **ROBERT CRAIG**. It has no stem rot; no disease of any kind. It is an easy doer. **Anybody can grow it.** It combines size, strength of stem, perfect constitution and vigor, form, perfect calyx, ideal color and fragrance, with grand shipping and keeping qualities. Is anything more needed? There will be benched, in all, between 40,000 and 50,000 plants for growing the season of 1905 and 1906. This will give ample stock from which to propagate only selected cuttings and will insure early deliveries as well.

PRICES For Selected Cuttings, for delivery commencing December 1, 1905:	}	\$12.00 per 100.	\$100.00 per 1000	A DISCOUNT Of 5 per cent. when cash is sent with the order.
		2,500 at \$95.00 per 1000		
		5,000 at \$90.00 per 1000		
		10,000 at \$80.00 per 1000		

Orders will be entered now, subject to cancellation any time prior to December 1, 1905, if upon inspection the variety does not prove satisfactory

WILL BE INTRODUCED JOINTLY BY

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J. D. THOMPSON CARNATION CO.

C. W. WARD, Manager

QUEENS, L. I., N. Y.

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CLASSIFIED ADVERTISEMENTS

Cash with Order
The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.
Our charge is 10 cts. per line (7 words to the line), set sold, without display.
Display advertisements in these columns 15 cents per line; count 14 lines to the inch.
No advertisement taken for less than 50 cents (35 words), except Situations Wanted.
[If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.]

STOCK FOR SALE

MRS. T. W. LAWSON, 3000 rooted cuttings from selected stock, \$1.75 per 100; \$15.00 per 1000; sample 10c. T. J. Oppermans, Camphill, Pa.
CARNATIONS—Unrooted cuttings. All the leading bread-and-butter kinds. Write for varieties and prices; they are all right. Paul Thomson, Florist, West Hartford, Conn.

Announcement

ALFRED E. WHEELER wishes to announce to the trade that he has purchased the interest of C. H. Penn in the firm of W. E. Marshall & Co., dealers in seeds, plants and bulbs, the said firm now being composed solely of W. E. Marshall and Alfred E. Wheeler, with store and offices at 146 West 23d Street, New York.

SITUATIONS WANTED

GERMAN florist, sober, references, wishes position for general greenhouse work, \$10 per week. Address, D. C., care Florists' Exchange.
YOUNG LADY wishes position as maker-up and saleslady; seven years' experience; best of references. Address, D. D., care Florists' Exchange.
YOUNG man, 11 years in the trade, wants position with grower of general stock; good references. State wages. Address, D. D., care Florists' Exchange.
SITUATION wanted by a boy 15 years of age, strong and willing to learn the florist and nursery business; private or commercial. Address C. J., care Florists' Exchange.
GARDENER, florist, 29, single; strictly sober, life experience in all branches, best of references, wants steady position; please state wages. Address Florist, 527 Courtland avenue, New York City.
GARDENER, florist, married, competent in all branches of floriculture and horticulture; 23 years' experience, wishes engagement as head gardener; four years in last position; highly recommended. P. O. Box 435, Tarrytown, N. Y.
POSITION wanted by a young man, 28 years old, as foreman in a commercial place; used to handling men; good references from old country, as well as from this. Specialist in carnations, bedding and Easter stock. Address, D. K., care Florists' Exchange.
POSITION wanted, by young American, 30, in general gardening, greenhouses, mushrooms, etc. Have had practical experience in all in Germany, France and America; also one year special course in American agricultural college. Steady, temperate; references, Robert L. Golms, care Mr. Place, Franklin Savings Bank, Boston, Mass.

HELP WANTED

WANTED—An assistant on carnations and bedding plants; rapid potter. Wages, \$10.00 per week. John Reck & Son, Bridgeport, Conn.
WANTED—Man for private place; must have good habits. Send reference and place where last employed. State wages expected. Box 54, Springfield, Mass.
WANTED—Steady man to assist in greenhouses; one having some experience with roses preferred; must have good references. Wages, \$40 per month and room to start. Address, D. H., care Florists' Exchange.
WANTED—Fireman for night firing, one with experience as such, and having good references; steady place; \$12 per week. Hession, Florist, Clarkson St., near Utica ave., Flatbush, Brooklyn, N. Y. Take Reid Ave. car.

WANTED, two practical, experienced rose growers; single men preferred. Apply with references. Wm. Plumb, Bedford Station, N. Y.



EVERY GROWER SHOULD USE THIS TAG

25 CARNATIONS

...Grown by

F. A. BLAKE,

ROCHDALE, MASS.

NOTE SPECIAL ADVANTAGES: Light, Neat, Attractive Waterproof, Adaptable to Any Stock, Easily Put On, and an Advertisement for you wherever your goods are seen.

- 1,000 Tags, - \$2 00
- 2,000 Tags, - 3 50
- 3,000 Tags, - 4 50
- 5,000 Tags, - 6 00
- 10,000 Tags, - 10 00

If so desired you can have printed on the tag the name of each variety; for instance:
Carnation—Flora Hill
For each change so ordered add 10 cents to price quoted.

Please write your order carefully and legibly.
The blank (within rules) on left hand side of the tag is for any check or other mark you may wish to stamp thereon; or the name of the variety may be placed there, if you so desire.

If you wish to furnish the tags with the strings on as shown, add \$1.25 per 1000 to the prices quoted.

Printed to order only, punched, but without strings in lots of not less than 1000.

Cash must accompany all orders for these goods.

Samples forwarded on application.

A. T. De La Mare Printing & Publishing Co. Ltd., 2 Duane Street, New York

WANTED—Man with experience in rose growing, as assistant in greenhouses; one with some knowledge of American Beauty roses preferred. Good wages to right party. Address, with full particulars, D. L., care Florists' Exchange.

YOUNG MAN of temperate habits and good appearance; must be first-class make-up, good decorator and AI window dresser; permanent position; good money for right party. References, etc., in first letter. Address, D. G., care Florists' Exchange.

WANTED—Experienced man for store work; must be up in design work, and first-class decorator; sober, industrious and have best of references. Place near New York city. State age, experience and salary expected. Address, D. E., care Florists' Exchange.

A GARDENER WANTED.—The undersigned is desirous of securing the services of a first-class gardener, with experience and skill on the general lines of this work, and especially under glass, both hot and cold, for flower and fruit culture. Gardener's cottage on estate. Apply in writing, stating references, to CONYER'S MANOR, Greenwich, Conn.

WANTED, a seed traveler by an Eastern wholesale house; one but fully experienced man need take the trouble to apply, as no one will be considered who cannot furnish unquestionably good references as to success in the past and as to diligence, sobriety and acquaintances with seed buyers in the South, Southwest and Middle West; six months on the road and six months in seed house. Address B. D., care FLORISTS' EXCHANGE.

OPEN of the best known Florist Supply Houses with well established and extensive trade has opening for partner to increase business. Applications must state full particulars as to present occupation, experience, capital ready for investment, or no notice. Address D. A., care Florists' Exchange.

WANTED

Order clerk and store salesman; one with a good knowledge of Flower Seeds and Plants preferred. Apply, stating age, experience, etc., to

HENRY A. DREER,
214 Chestnut Street, Philadelphia, Pa.

BUSINESS OPPORTUNITIES

FOR SALE, to settle estate, triple greenhouses, 5,000 feet of glass, well stocked, doing a fine retail jobbing trade. Enquire H. C. PICKHARDT, Meriden, Conn.

FOR SALE—Seven acres of ground, good house and barn with three greenhouses; also 140 cypress sash, 75 boxes, 11x12, double thick glass, and oil engine. Address Box 61, Wyckoff, N. J.

FOR SALE—The greenhouses, dwellings, and land is offered for sale in part or whole, at a sacrifice, to close the estate of the late Grove P. Rawson, Elmira, N. Y. Address, Eva J. Rawson, Administratrix.

IF YOU have five to ten thousand dollars that you want to put into a first-class business with or without your own services, according to amount invested, correspond at once with C. H., care Florists' Exchange.

SACRIFICE SALE—Who wants to buy my United States patent and valuable moulds for manufacture of the best plant syringes ever invented for amateur's use? Good reason for selling. If you are interested, write for particulars to Reel, F. Hill, 118 Main street, Astoria, L. I. C., N. Y.

MISCELLANEOUS

WANTED TO PURCHASE, GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLORISTS' EXCHANGE.

WANTED to rent near Philadelphia, three or four acres of ground (good rose soil), with 10,000 to 15,000 feet of modern glass; suitable for growing roses for Philadelphia market; possession April 1st. Address B. F., care FLORISTS' EXCHANGE.

WANTED TO BUY greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange.

SECOND-HAND BOILERS

One nine section Howatt boiler, capacity 2-400 ft. 4 in. cast iron pipe.
One Weathered double dome No. 6, capacity 1,500 ft.
Three Hitchings boilers, Nos. 17, 16, 15. The above boilers are complete in every way and tested before leaving my shop. Wm. H. Luton, Heating and Ventilating, West Side Station, Jersey City, N. J.

FOR SALE

Greenhouse Material
Milled strictly of Louisiana Cypress. Will cut and splice to order. Hot Bed Sash a specialty. Try V. E. Reich's Oxford Putty, specially made for greenhouse purposes. Estimates freely furnished for greenhouse and hot bed glass.
V. E. REICH, 1429 Metropolitan Brooklyn, N. Y. Avenue.
Mention the Florists' Exchange when writing.

For Sale NO. 12 FURMAN STEAM BOILER

as good as new; has only been fired for two weeks. Cost \$600. Price \$200.

ROBERT SCOTT & SON
Sharon Hill, Del. Co., Pa.

Mention the Florists' Exchange when writing.

HOLLYHOCKS—Choice Seeds

We offer superb, separate single colors, 8 kinds, 90c. per oz. We offer superb single colors, 8 kinds mixed, 80c. per oz. Double Hollyhocks, in 6 separate colors, 90c. per oz. Double Hollyhocks, 6 varieties mixed, 80c. per oz. Hollyhocks, strong field plants, double colors, \$5.00 per 100. Hollyhocks, strong field plants, single colors, \$5.00 per 100. Cash with order, please. JOHN CHARLTON & SONS, Rochester, N. Y.
Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings BIO STOCK

ORANGE TREES Write for Price List
The Philippi Nurseries, PHILIPPI BROS. Props.
ROCKLIN, CAL.
Mention the Florists' Exchange when writing

ROOTED CUTTINGS CARNATIONS

	Per 100	Per 10
Enchantress . . .	. \$3.00	Floriana . . . \$1.50
Lawson . . .	2.00	Morning Glory . . . 1.10
Queen Louise . . .	2.00	Gov. Roosevelt . . . 1.10
Mary Taylor . . .	1.50	

Strong healthy stock. Satisfaction guaranteed. Cash with order, please.
JEWETT CITY GREENHOUSES, Jewett City, Conn.
Mention the Florists' Exchange when writing

ROOTED CUTTINGS

	Per 10
Salvia	\$1.00
Vinca Variegata	1.00
Giant Double Sweet Alyssum	1.00
Heliotrope, dark	1.00
Coleus, 15 varieties	6
Ageratum, Parline and Gurney	6
Fuchsias	12
Double Petanias	12
Vinca Variegata, 3 in. pots	4.00
Heliotrope, 2 in. pots	2.00
Ivy Geraniums and Mme. Sallerol, 2 in. pots	2.00
Geranium Jean Vland, 2 in. pots	2.00

Cash With Order.
ERNEST HARRIS, - DELANSON, N. Y.
Mention the Florists' Exchange when writing.

FOUND!

A place where new and old material for the complete erection or repairing of

GREENHOUSES

can be procured in

Exchange for Cash

Economical florists get our prices on Glass, Boilers, Ventilating Apparatus, Fittings, Pipe, White Lead, Paint, Putty, Hot Bed Sash, Etc.

OLD GREENHOUSES, BOUGHT.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.
References: Dun, Bradstreet, and Broadway Bank of Brooklyn.
Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Lily of the Valley.

From now on the new importations of lily of the valley pips, received last Fall, may be forced successfully. If they are safely stored in outside frames a certain number, as needed, is brought in from time to time, and, if frozen, thawed out by degrees. A dipping of the roots in cold water will help drive the frost out. A little of the roots, about half an inch, is cut off before the pips go into the sand bed, the pots or the boxes, in whichever way the grower prefers to force them. They are planted in pots or pans, if wanted for the plant trade; while, as a cut-flower crop, the boxes, or a bench, are the proper places. Any boxes, six inches deep, filled with sand and placed on a hot bottom, sometimes directly on the pipes, will do for the forcing of the pips. These boxes are removed to a cool place after the flowers are fully developed.

This is one way of doing the work, and it will serve all purposes, where only small quantities are to be handled; but on places where several thousands are forced weekly, a bench especially constructed or arranged gives better satisfaction. This bench, about fourteen inches high, or deep, and wide enough to allow of being covered by a set of well-fitting sashes, or shutters, is filled to the height of six or seven inches with sand, which should at all times be heated up to an even 85 degrees, while the atmospheric or surface temperature should never be much over 50 degrees. In this bed, then, the pips are planted, at distances of two inches or even less between the plants. The long roots, after being shortened in a little with a sharp knife, as advised above, should be straight up and down in the sand, and the pips, or crowns, just above the level of the sand. Some growers cover the crowns with finely chopped moss an inch or more, but this is not absolutely necessary, and only called for where the bed is not fully up to requirements, defective or ill constructed, or where the temperature of the house is apt to drop too low occasionally. After being planted and the bed thoroughly watered down, the additional sash is let down over them, and on these heavy paper or boards are placed in order to darken the bed. After a forcing of two weeks the light is admitted, still using a light shading, however, for a few days, and only, when the flowers begin to open, all covering is removed and light, as well as some air given.

Of course, all this time heavy watering is necessary, which may be applied overhead every day until the spikes are well up and the bloom begins to show color, after which no water must touch the flowers, and only the sand is kept moist by a more careful watering. It takes just about three full weeks to force the pips into bloom. By subjecting the plants to a course of forcing under ordinary greenhouse heat and conditions, only a poor product will result, instead of a finer grade, as may be supposed. In this respect the lily of the valley differs greatly from all other thoroughly hardy outdoor plants, requiring the most extreme measure of bottom heat and rapid forcing to bring it out to perfection. Treating the forcing pips to regular rotations of liquid manure, as I have seen done, will probably do no harm, nor will it do any good whatever. Clear water, and lots of it, is all this charming little fairy drinks.

Peonies.

Peonies hardly ever are a great success as Easter plants, but may be had in bloom quite early in May. They object to any kind of severe forcing, and it is, therefore, time to gradually set them aging now, so that they may have plenty of time in an intermediate heat to produce faultless flowers in early Spring. Three or four-year-old clumps, especially selected and grown outdoors for this work, are taken up carefully in October and planted into a bench, or in pots, if only a limited number is wanted. All early flowering sorts, as those of the officinals group, the single and double *Paeonia tenuifolia* and some of the earliest varieties of the Japanese arborea or Moutan sorts, give fullest satisfaction, if previously prepared by a three-year course of outdoor culture, as alluded to above.

On private estates and for the decoration of the conservatories in public parks, the forcing of a few peonies every year is looked upon merely as a playful experiment, and the cost of labor and possibility of loss of plants are not deemed weighty enough to deserve consideration, when the question of success is discussed. But, commercially, we are beyond the first experimental stage in peony forcing, and the grower in this line figures on a reasonable profit. If he selects those kinds named for a future venture, and, when ready, subjects them to a mild and gentle heat and an ordinary good treatment, he would not be likely to lose any of the plants, and his returns for the marketed flowers could be counted upon as being sufficiently high to render this feature of flower growing quite profit-

able, for they would just come in when most wanted.

Those peonies which are found to be suitable for pot culture should have been potted up in the Fall, kept growing and allowed to become fully established in their pots during the following Summer. Such roots are in a better condition to be forced than those newly potted up, although the flowers may be somewhat smaller. The best variety for this purpose and, indeed, a grand subject for pots is *Paeonia tenuifolia*, and the single-flowered variety is quite as good as the double sort. Both are strikingly effective with their flowers of a deep, glowing red and their feathery, airy foliage. Such plants are eagerly bought, not only because they are exceedingly beautiful, but mainly because the people know what to do with them after they have done blooming, and when planted out into their gardens this peony never fails to ultimately fully come up to expectations.

Otaheite Oranges.

Nice, shapely specimens of Otaheite orange, well set with fruit and flowers,

we must have it. Small pieces of good clover sod, the robust red, as well as the little white clover, are placed on the soil, or regularly planted into it, and kept watered. Any empty space in a bench will do. If they are started now, quite a profusion of fine, suitable material will be ready at the right date. Common clover, under greenhouse culture, loses all its coarseness and assumes quite an air of importance and respectability. Although this may not be shamrock, and you do not claim it to be, it is in great demand all the same, as being the next thing to it. Therefore no deception need be practiced.

The florist, booking orders for the decoration of the banquet hall and banquet tables on St. Patrick's Day, should bear in mind that no two Irishmen agree on what shamrock really is, or what particular plant should be held as entitled to that great honor. Even learned sages of high authority declare that the question of what species of plant should be regarded as the true shamrock is still a much disputed matter. Some hold that it is *Trifolium pratense*, others say that none other but *Trifolium repens* is the

line Schmitt. In order to encourage these sorts to do their best and to grow quickly into something worthy of a place in any collection of highly finished pot plants, it becomes a matter of necessity to grow them in a moist hothouse temperature, and to give them a shift into new soil and a larger pot before they become thoroughly potbound and their roots hard and inactive. There never is a lack of buyers for nicely raised plants of this kind.

Of the white-leaved varieties, generally used for an edging in bedding, Mountain of Snow is the slowest grower, and cannot be relied upon as growing into an even border-line outdoors. This sort should now be propagated, but cuttings from its sister variety, the fast growing Madame Salleron, need not go into the sand until the end of February. Any little piece of this variety will root and quickly grow into nice three-inch plants, the size most suitable for immediate planting out. Ivy-leaved geraniums need not be propagated before March, or a bare and lanky lot of these most valuable plants will disfigure your benches.

Fuchsias.

The cuttings of fuchsias, now put into a warm corner of the propagating bed, will root in a few days, and if then potted up and repotted, whenever needed, will grow into plants of enormous size by the time the general pot-plant trade is in full swing. Some of the tall sorts may be grown into standards with a two-foot stem and a crown nearly as much across, by taking away the lower branches as soon as formed, until the desired height of stem is attained. Whether it pays or not to practice these fancy touches and cultural tricks of old I am not prepared to say, not finding sufficient time to do much of the kind nowadays, but I know that once more it pays to grow good fuchsias, that they are again in favor, and good selling market plants, if well done, and that to do them well is the easiest thing in the art of growing plants. A warm and moist place, lots of room, a shading later on at the brightest hours of the day, frequent transplanting when small, and a good, rich soil are the essential points in the culture of fuchsias.

Pansies.

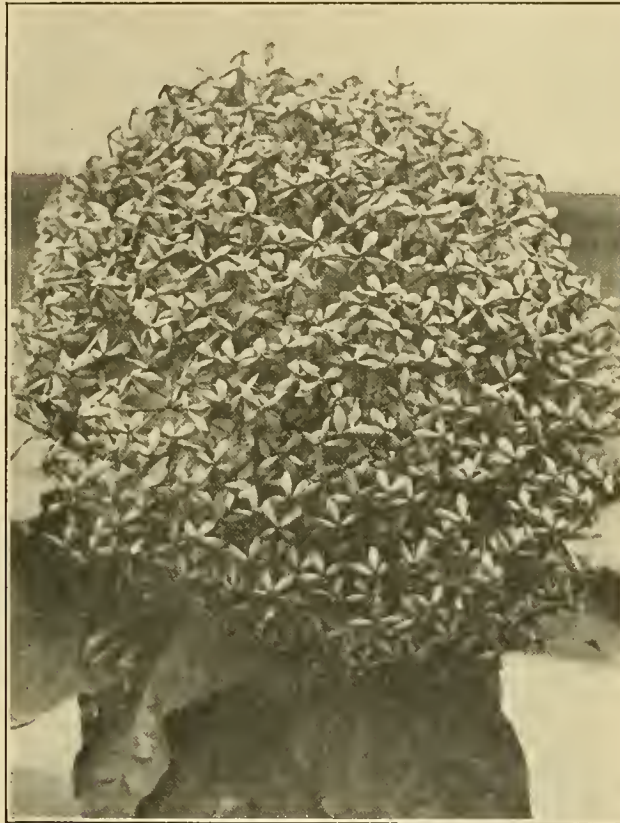
In early Spring, the cut flowers from good strains of pansies are often called for and generally bring \$1 per 100 blooms. At this price the grower should consider himself generously compensated for the little extra labor and small share of bench room given over to a thousand or two of pansies. Plants that were started last August from seed and now in frames outdoors, may be brought in and planted at distances of six inches each way into a bench. They require the same treatment as violets, and will yield a continuous crop of very long-stemmed flowers way into late Spring, after which, of course, their career as useful stock is ended.

Carnations.

You have been told repeatedly that January is by far the best time to put in your main crop of cuttings, and in your anxiety to faithfully obey this fixed and rigid dictum you may be led to indiscriminately rob the plants of anything and everything rootable and unrootable. This should not be. Do not let your impatience outrun your judgment. While January indeed is a good month in which to strike carnation cuttings, it is not the set time, when the plants have the entire season's cuttings ready for the propagator. A cutting should be just right, and such cuttings are furnished by most of our present varieties right along from one end of the season to the other. A cutting which was just right for propagation in November and December has become unfit by this time, and one which would be excellent material for propagation in March is yet too soft to be risked as a cutting.

Where the grower aims to work up only sufficient stock for the coming season, as needed on his place, a few cuttings, taken now and then from each plant, will result in better plants than if taken off all at one time, even if rooted before or after January. It is also true that the plants grown from cuttings thus selected from time to time prove far superior in every way to those derived from mass propagation, the product of plants made to produce two and three heavy crops of cuttings, and especially set to work in this direction. A carnation, no matter what variety which is made to produce nothing but cuttings, and is denuded of all its healthy foliage several times in a few months, often enough is the root of all evil points seen in new carnations. F. W. TIMME.

TEWKSBURY, MASS.—Mr. M. A. Patten left with the Boston party Monday evening; destination, Chicago; objective, the meeting of the American Carnation Society. Mr. Patten will exhibit "Mikado," illustrations of which will be found in another column.



IXORA MACROTHYRSA AS GROWN IN ENGLAND

IXORA MACROTHYRSA.—The *Ixora* are not quite so popular as they were a few years ago, yet anyone in search of novelties should appreciate this fine species. It has immense heads of bright scarlet flowers, and rather long oval leaves, of a bright fresh green. Some fine examples were shown at a recent meeting of the Royal Horticultural Society. They came from

the gardens of Sir Trevor Lawrence, and were much admired. The illustration gives some idea of the fine clusters of bloom; they measured fully 18 inches in diameter. The plant was introduced from Strong Island, in 1878, and a first-class certificate was awarded it by the Royal Horticultural Society on October 6, 1891, when it was first exhibited by Sir Trevor Lawrence. It is sometimes named *Ixora Duffi*.

are the best selling plants I know of. Unfortunately, this variety of citrus is also the most difficult of plants to handle, and is not likely to be grown extensively in any place in the future, unless it can be made to behave better than it is doing now. Were it not such a fast selling and most attractive plant, when well done, hardly any would be in cultivation now. Mealy bug, scale and other insect enemies combine with blight and rot to render the raising of a respectable lot of Otaheite oranges almost an impossibility. I have of late been led to the belief that this truly tropical plant has, as a rule, been probably grown in houses too cool and airy for its nature, and that in a true hothouse temperature and a more moist atmosphere it would perhaps have deteriorated less rapidly. We should give it another chance.

Shamrock.

Shamrock, or something very much like it, plays an important part in the various kinds of decorative work, ordered and in order for St. Patrick's Day, which comes on the 17th of March. Any amount of it is called for and usually well paid for nearly every year for the occasion. So

true Irish shamrock, while there is still another faction putting forward *Oxalis acetosella* as the only plant meant by the term shamrock. It seems there is not sufficient evidence to determine the point, and the question is still open for unlimited debate. But since all agree that the plant cannot be grown out of Ireland we are justified in providing a pretty substitute.

Fancy Geraniums.

The latter end of January, or the beginning of February, cuttings of all the varieties of variegated, fancy and scented geraniums should go into the propagating bed. They will now root quickly and grow into nice salable stock by May. The old stock plants of these kinds, after having furnished the desired supply of cuttings, will not amount to very much and you may then as well make room for something more valuable. The new set of young, thrifty plants will be much finer stock, will grow faster, and the colors in foliage and flowers will be more distinct and much brighter in all their fine markings. This is especially true of such varieties as Prince Bismarck, Happy Thought, Mrs. Pollock and Caro-

New York.

News Notes.

This city was visited with a blizzard on Wednesday, the like of which has not occurred before in the last sixteen years. The railroads were tied up on Wednesday and Thursday, a genuine cold wave followed the fierce gales and drifting snow, and the flower business in general is paralyzed.

At the Cut Flower Exchange on Wednesday morning but five growers put in an appearance, while on the following morning not a single grower attended, consequently not a flower arrived at that market. The wholesale commission men's district was little better off, however, as not a single consignment was received on Thursday morning, and such a dearth of flowers was never before experienced.

The retail business throughout the city is about at a standstill, and the fact of the supply being cut off is causing no little uneasiness in that quarter.

On Wednesday, during the storm, the horse and wagon belonging to Charles Lustgarten, of Elmhurst, N. Y., which had been left standing in front of the Cut Flower Exchange Building, could not be found when the driver returned, and after a search of many hours the outfit, minus the blankets, was found at the corner of 68th street and Broadway. The overland express, which conveys the products of the Madison, N. J., rose growers to the New York market, has just completed its second year of service. It is worthy of note that since its commencement, two years ago, the express has arrived on time every morning, with its load of precious flowers, whatever kind of weather prevailed, through fierce snowstorms or fog; Winter and Summer, the wagon has never missed a single trip, neither has there been any damage done to the flowers in transit, either by frost or heat since this service was instituted. Growers who send their flowers by this express find it a great convenience; the consignments are called for at the greenhouse, and the empty boxes from the previous day are left at the same time. By this method the grower saves himself the cost of taking his flowers to the station, and has the satisfaction of seeing them at once sheltered from the cold.

The severe storm this week proved too much for the overland, however, and on Thursday morning those who receive shipments by this route were informed by telephone that, owing to the impassable condition of the roads, the wagon could not be started on its journey.

Wm. H. Johnson, who had charge of the greenhouses at Sing Sing Prison, died on Friday, January 20, aged 54 years. Paralysis was the immediate cause of his death.

Mr. J. H. Pepper, the eastern representative of the American Florist, was waylaid and robbed while returning home from the bowling club on Monday evening. Mr. Pepper was beaten quite severely by the thugs, who held him up.

On Friday, January 20, Mrs. Edward Bourque died very suddenly from heart disease at her home in Yonkers, N. Y. Her husband, Edward Bourque, is the well-known salesman for Charles Dards, and the sympathy of the craft will go out to him in his sad bereavement.

The outing committee of the New York Florists' Club met and organized on Saturday afternoon last. Wm. J. Elliott is chairman; Chas. Schenck, treasurer; J. A. Shaw, secretary.

Next Saturday, February 4, the annual dinner of the Florists' Club takes place at the St. Denis Hotel. Any members or friends of the club who wish to donate flowers for the decoration of the tables will confer a great favor on the dinner committee if they will forward such flowers to the secretary of the club, Mr. John Young, 51 West 28th street, on the day of the dinner.

The American Society of Landscape Architects held their annual dinner in the Hotel Astor recently, and elected the following officers for the ensuing year: President, J. C. Olmsted; vice-president, Samuel Parsons, Jr.; treasurer, C. N. Lowrie; secretary, Downing Yaux; member of executive committee, Prof. Greenleaf.

Among the New Yorkers who attended the annual meeting of the American Carnation Society in Chicago this week were Alex. Wallace, editor of The Flor-

ists' Exchange; Mr. and Mrs. Eugene Dailedouze, Mr. and Mrs. Ludwig, parents of Mrs. Dailedouze, John Reimels, J. A. Shaw, A. J. Guttman and C. W. Ward.

Alfred E. Wheeler has purchased the interest of C. H. Renn, of the firm of M. E. Marshall & Co., seed and bulb merchants, 146 West 23d street, and has become an active member of that firm.

Philadelphia.

The florists' business lacks the vim that is usual at this time of the year. While there are plenty of social affairs going on, it is apparent that not so many flowers are being used. Some will say overproduction; that is true to a certain extent, but personally the writer has seen four decorations this past week, one of which, five years ago, used twenty thousand carnations and several hundred strings of smilax; this year two hundred roses and five hundred Von Sion narcissus was the cut flower total. Southern smilax was used largely with Japanese draperies, etc., to give color effect.

Roses, that is, fancy grades, have been scarce, but we still have an overabundance of carnations, as others have expressed it, "every grower has a good crop;" even with so many in the market, extra choice is yet recognized. This week Wm. J. Baker has the call; he is receiving some grand flowers of Enchantress; while practically only half open, they are then as large as they are usually seen at their full.

Plant growers are complaining of poor business around here; palms appear to be the worst assets just now; in fact, some say palms have not paid for the past four years.

The Canadian convention is on, and, as usual, with it comes a blizzard. Wednesday morning here there was ten inches of snow on the ground; temperature, 20 degrees, still snowing, and a strong northwest wind blowing. By afternoon, shipments of flowers from growers were from one to two hours late.

Samuel S. Pennock, Edward A. Stroud and William Swayne have gone West to view new carnations at the convention. DAVID RUST.

It will be carnation night at the Florists' Club on Tuesday, February 7, when it is hoped and expected that all the meritorious varieties, whether new or old, will be on exhibition. If they cannot be brought to the meeting they may be sent prepaid, by express, in care of David Rust, Horticultural Hall, Broad street, Philadelphia, Pa.

EDWIN LONSDALE,
Secretary.

Newport, R. I.

Trade Conditions.

There is little to say, except that it is very quiet with the seedsmen, as expected at this season; the florists' trade has been fair the past week. The weather has been the best of the Winter thus far, we having had a good spell of clear, beautiful days. It is seldom that a finer collection of funeral flowers is seen than those sent last Friday to the Island Cemetery at the burial of Mrs. Lewis Cass Ledyard. There were some sixty beautiful pieces, and Thorley's representative, who had charge of the flowers, stated that two hundred pieces were left behind in New York. The local paper has had several articles within the past few days with illustrated plans of the George A. Weaver Company's Agricultural Emporium on Broadway, showing how the structure could be enlarged and adapted for a hotel. It is reported that a stock company may be formed to reconstruct and fit out this property for that purpose.

George A. Weaver, of the George A. Weaver Company, has gone to Hot Springs, Ark., for the benefit of his health. It is announced that in April Carl Jurgens, Jr., will be married to Miss Florida Hubbard, of Washington. Mr. and Mrs. Robert Hunnack will celebrate their silver wedding January 30. Hodgson supplied a lot of very choice roses and other cut flowers for Mrs. John Jacob Astor's "Small Dance" at the New York mansion last Monday.

Visitors the past week were H. R. Odell, of Weber & Don, New York, and David S. F. Adam, representing J. M. Thorburn Co. F. W.

Oakland, Md.

A number of the Baltimore craft visited Messrs. H. Weber & Sons at Oakland, Md., last Sunday. When we left Baltimore Saturday night the weather was clear and fine; when we arrived early the next morning at Oakland it was snowing hard; this, however, did not mar the pleasure of the trip. We were met at the depot and taken to the hotel for breakfast, after which we took a delightful sleigh ride of about a mile to the objective point. Messrs. Wm. and John Weber took us through and explained all points of interest, of which there were many. On leaving the office the door of a house 35x240 feet was opened, and we found ourselves in this large house filled entirely with the great My Maryland carnation. Many blooms were standing there on large, long, stiff stems, and not a bursted calyx to be seen. They have some 40,000 cuttings of this variety now in the sand, and are still putting in more. It was originally intended to send it out this year, but the firm has since decided not to disseminate it until 1906.

The firm has more than 100,000 square feet of glass in all, mostly devoted to carnations; several houses were filled with seedlings only, many of which will doubtless find their way to the markets in the near future and prove valuable additions to the carnation family.

There are six boys in the family, all actively engaged in the business, each carefully and energetically looking after their respective duties. Two of the sons, Henry and William, are married and have their residences on the estate (which is more than 500 acres). All the hay, grain, etc., raised on the place is consumed by the fifty head of horses and cattle, giving all the manure needed. Mr. Weber informed us that during the coming Summer they will rebuild one block of about an acre and erect an additional new block for chrysanthemums.

There are two water systems throughout the houses, one for liquid manure, the other for fresh water, which is supplied from a 40,000 gallon tank. The place is equipped with a sawmill and box factory for the exclusive use of their large business. They also have a large cut-flower vault. The major part of their products are disposed of at wholesale, the quality being such as to command the best prices. Just two miles east of their place is Mountain Lake Park, which is a great religious summering place. Three miles farther east is the popular and fashionable Deer Park; these two resorts are heavy retail buyers during the summer season. The residence is very large and handsome, with all modern improvements, built on a hilltop overlooking a beautiful valley to the mountain beyond.

Baltimore.

We are in the grasp of a severe snowstorm approaching a blizzard; it began to snow Tuesday and has kept it up steadily to the present writing. Business was nearly at a standstill today in consequence. Roses are a little scarce; all other stock is in supply equal to the demand, and a little left over.

The Gardeners' Club had a poor attendance Monday night. A committee was appointed to suggest some appropriate reward to the member bringing the largest amount of new members into the club during the year.

The committee on carnation show is hard at work arranging for a successful exhibition for Monday, February 27.

Messrs. Hammond Bros. have dissolved partnership and discontinued the business, at least temporarily.

JOHN J. PERRY.

Boston.

A new flower store has been opened at 388 Boylston street, with the title of the Arboretum Flower Shop. The proprietors are John J. O'Brien and Minnie J. Wren, both of whom have been with Carbone for several years and are well known among the local florists. They have the well wishes of a large host of friends.

Alexander McKay has purchased a ten-acre farm at Ashland, and will at once start the erection of a range of greenhouses, growing material for the Boston market. Mr. McKay has been

known as one of Boston's most successful private gardeners, having been one of the leading exhibitors of chrysanthemums a few years ago. His fine specimen plants and exhibits of large blooms are well remembered, and that he may be successful in his new enterprise is the wish of his many friends in this vicinity.

Galvin is having a large call for orchids, gardenias and other choice flowers. He is receiving some very fine blooms of each of the former from Julius Roehrs, Rutherford, N. J., and also some fine gardenias from Wild, of Jersey City.

Single English primroses are a choice flower at Macmulkin's.

Robert Cameron has a fine display of primroses at the Harvard Botanical Gardens; some very fine types of *P. obconica* are seen.

W. J. Stewart has been confined to his home for several days with an attack of the grippe.

S. J. Reuter, of Westerly, R. I., one of the largest shippers of cut flowers to Boston, sailed for Europe on the 19th inst.

The Horticultural Club met Thursday evening, with A. Leuthy in the chair. J. W. D.

Cincinnati.

By this time next week we shall know who did not attend the American Carnation meeting and who did not get premiums and gold medals. I believe Cincinnati will win some of the prizes, as R. Witterstetter never had his place in better shape. The writer was there Friday, and some of his exhibition stock was cut and in water, and they were certainly fine. His place, with the exception of one bench of Enchantress, is devoted to the growing of his own seedlings, and he certainly has some good ones. Last year he was producing pink colors; this year it is all white. E. G. Hill was in the city Saturday and was out at Mr. Witterstetter's; evidently he has his weather eye on some one of these newcomers.

Will Murphy is busy putting two new tubes in his boiler, which blew out Sunday night; always something doing to keep a grower busy.

A. J. Peterson, Alfred Forder, Sunderbruch and R. Witterstetter are the "big four" that left here over the "Big Four" for Chicago Tuesday evening. E. G. GILLETT.

Barneveld, N. Y.

With Mr. Harry Mathews your scribe recently visited Barneveld, seventeen miles north of Utica, to see Mr. Nicholson's place, where nothing but carnations find a home. We were met by Mr. A. O. Grassl, who took great pains in showing us through the plant. Last Summer was added two new houses, each 200 feet, making now six in all, 20x200 feet; and also a new propagating house, 6x200 feet. A new boiler of 80 horse power, set on the level of the houses, with the condensed steam pumped back to boiler, has been installed. They like it very well, indeed. In fact, it works perfectly. All overhead pipes are being done away with. Everything here is on benches. One house of Lawson was in grand condition; one of Queen looked more like a wheat field just headed out; one house of Enchantress was hard to beat—grand, good flowers, and any amount of them; we also saw Flamingo, Sun Bird and Albatross. Flamingo and Albatross will be given another trial next year; Mr. Grassl thinks that Flamingo can stand more heat than any other kind; say about 56 degrees. Mr. Grassl showed us some very promising new seedlings, a fine pink the color of Marquis; also a fine white large flower looks as if it would be a comer; he also has several other seedlings which are good.

Their propagating house is one of the finest I have seen. Mr. Grassl is rooting every thing in sifted ashes; he says there is no danger of fungus in that way, and cuttings root just as well with less attention.

FIRMS WHO ARE BUILDING.

WHEELING, W. VA.—Jacob Sneider is erecting a large greenhouse on Twelfth street.

PHILADELPHIA, PA.—William Didden has secured a permit to build a new greenhouse, 20x64 feet.

The FLORISTS' EXCHANGE is subscribed for by the live men of the Trade.

The FLORISTS' EXCHANGE is a Trade Journal, and published on behalf of the Trade only. There is no paper published that more zealously guards the interest of its patrons.

The FLORISTS' EXCHANGE furnishes every item of news and information necessary for the successful conduct of your business, whether you be seedsman, nurseryman or florist, two in one, or all three combined; therefore, the FLORISTS' EXCHANGE is deserving of your most hearty support.

The columns of the FLORISTS' EXCHANGE contain more real, live and instructive reading matter, more news, and more helpful Trade information, than can be found in any other journal.

The average trade paper is happy with a circulation representing 20 per cent. of the industry it covers; the weekly circulation of the FLORISTS' EXCHANGE covers over 60 per cent. of its available clientele—and all to paid subscribers.

Strict application to business methods and courteous attention to all have placed the FLORISTS' EXCHANGE at the top and it intends to stick there.

WHY WE SOLICIT YOUR BUSINESS

NOT BECAUSE Our advertising rates are cheaper than those of other similar journals!

NOT BECAUSE We advance the unproven statement that our circulation is larger than that of the other trade journals!

NOT BECAUSE We make the claim that our journal is paid for and read!

BUT BECAUSE THE FLORISTS' EXCHANGE pays its Advertisers better than any other journal in the trade.

This claim is substantiated by the self-evident fact that THE FLORISTS' EXCHANGE, though charging more per inch for advertising than any other like journal, still has The Largest Paid Advertising Patronage of All

PROVING

That the wide-awake tradesman does not seek cheap mediums in which to advertise his goods. That he knows cheap articles of any kind are often dear at any price. That he gets value for value when he advertises in **The Florists' Exchange**. That the florist is more of a business man than some publishers would give him credit for being. That foolish fancies, palaver and contradictory claims have no weight with him.

WE REPEAT:

We do not insert advertising FREE; we do not claim to charge the cheapest rate. Your business is solicited on the ground, that as IT PAYS OTHERS to advertise in THE FLORISTS' EXCHANGE, it follows IT WILL ALSO PAY YOU. TRY IT!

THE FLORISTS' EXCHANGE P. O. Box 1697 N.Y. 2 DUANE ST., NEW YORK

Sweet Peas in England.

Henry Eckford's New Departure.

The appearance of Henry Eckford's catalogue for 1905 sets at rest a good many rumors that have been floating round regarding the veteran's intentions, and, to the surprise of many it consists in turning his own children out of doors. To quote his own words: "Kindly note that in the following pages a good many sweet peas are marked 'discarded.' I still grow and can supply seed of these, but it is my intention to eventually exclude them from the list, as other and better varieties in similar colors have taken their place."

In the ranks of the discarded will be found Crown Jewel, Coquette, Maid of Honor, Boreation, Orange Prince, Katherine Tracy, Mrs. Sankey, Emily Henderson and some twenty-three other varieties, partly raised by Eckford and partly from other sources. Against this sweeping reduction in the list are set the following novelties:

Romolo Piazzani—Color almost a true violet blue self; flower slightly hooded.

Black Michael—A bright, shining reddish maroon, with slightly paler wings.

David R. Williamson—Standards of bright indigo blue, wings a slightly paler shade.

Not a very startling trio.

Some such step as the foregoing has been inevitable ever since the Sweet Pea Society commenced its work. The lovers of sweet peas have had their minds enlightened and their taste cultivated, and already many of the larger dealers, who had become heartily sick of the unwieldy list of varieties, differing in many instances by only the shadow of a shade, had struck out all, or nearly all, of the list now sacrificed by Eckford. He does well to follow their good example.

One other most important effect of the operations of the Sweet Pea Society has been the development of wholesome competition. For many years, with the almost solitary exception of Laxton, Eckford had absolute sway. To-day the work of Breadmore, Cole, Dobbie, Molyneux, Unwin and a host of others (to say nothing of the grand work done in America) is beginning to make itself felt, and Eckford has done wisely in deleting from his list varieties that have had their day, but are now not worth cultivating.

The Sweet Pea Society continues to make most satisfactory progress. In addition to a very liberal prize list, which embraces among its donors the names of C. C. Morse & Co., Santa Clara; Archibald Smith, late of Boston, and all the best firms in England, Sutton & Sons are offering a silver challenge cup, value 15 guineas (\$80), for the best exhibit in the special audit class, and the society also offers a gold medal to the winner as a permanent memento of his success.

Only favorable weather is needed to ensure a magnificent display on July 4.

S. B. DICKS, F. R. H. S.



NEW SEEDLING CHRYSANTHEMUM, Color, Lemon Yellow Raiser, Alfred Bellamy, Syracuse, N. Y.

A New Seedling Chrysanthemum.

The accompanying picture is that of a seedling chrysanthemum raised in 1902 by Alfred Bellamy, who has charge of the conservatories in Oakwood Cemetery, Syracuse, N. Y.

As the picture shows, it is a very fine incurved variety; is a lemon yellow, midseason, of firm, strong stem and leathery foliage, and altogether is a fine commercial variety, as it is an easy doer. J. B. B.

A German Trade Directory.

Thalacker's Address Book for the Year 1905, published by Bernhard Thalacker, Leipsiz-Gohlis, Ger-

many. This book contains the names and addresses of all the horticultural establishments in Germany, arranged geographically, with distinguishing marks showing exactly in what branch of the trade each firm is engaged. Addresses of 26,000 establishments in over 6,000 different places are given. Since the last edition, we understand that 1,500 firms have gone out of business, but that 3,000 new ones have started up, showing the necessity for issuing a new edition yearly. The book is of handy pocket size, particularly advantageous to commercial travelers, and contains besides the directory much other interesting information, such as legal advice, postal, railroad and steamship information, as well as a diary for the year. The book includes a number of advertisements of enterprising German firms.

Greenhouse Materials.

WROUGHT IRON PIPE.—Conditions in the pipe trade have continued satisfactory and business has been good since the first of the year. The market is exceedingly firm and some in the trade believe that prices will again be advanced before long.

WINDOW GLASS.—At a meeting of the Executive Committee of the Manufacturers' and Jobbers' Window Glass Company, held last week, an advance in the minimum price at which manufacturers may sell to jobbers was made. New York jobbers are quoting without change, as follows: First two brackets, single, 90 and 15 per cent. discount; larger sizes and all double strength, 90 and 5 per cent. discount, from jobbers' list of October 1, 1903. The demand is active for the season.—Metal Worker.

California Carnation Cuttings.

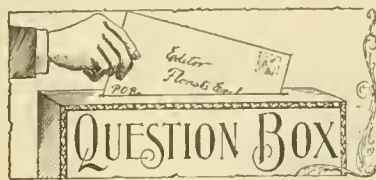
Editor Florists' Exchange:

Through the columns of your paper I begin to see that others have had trouble with California carnation cuttings besides myself. Last Spring I received cuttings from there, of which only 7 per cent. lived. I said nothing about it at the time, thinking that the trouble was probably with me, although I gave them good care and attention, but now I have reason to think otherwise. They were on the road four days, and arrived apparently in good shape, but seemed to be hard and woody; these as well as those spoken of in your paper were unrooted cuttings. I think were they rooted there, they would be more satisfactory.

New York.

SMITH.

CLEVELAND, O.—Reports received by the Home Gardening Association, in the form of letters from pupils in the public schools of Cleveland, show that at the lowest calculation 30,000 children are engaged in the growing of plants. Last April 181,000 packets of flower seeds were distributed by the association and prizes were offered to the school in which the largest per cent. of the scholars reported as having planted the seed.



Nitrate of Soda for Ferns.

(48) Kindly advise me how many pounds of nitrate of soda I should use for a kerosene barrel full of water, for watering ferns, etc., in want of feeding.

—For the watering of tender plants one-half ounce of nitrate of soda to one gallon of water is sufficient, and we would not advise that for use on ferns even, unless they are very strong growing varieties. For tender stove ferns it would not be safe at all. If feeding of the ferns is contemplated, it will be far safer to make a liquid from barnyard manure, and use that in a very weak state.

Branching Cyclamen.

(49) I have this year among my cyclamen several that have thrown up leaf stalks that have branched, throwing out new leaves and buds at the point where it branched. Is this a common occurrence, and would seed saved from these plants be likely to produce plants with the same characteristics?

—From the description given of the leaf stem of the cyclamen, branching and throwing both flowers and leaves, we should pronounce the freak a very uncommon one, indeed, but whether that peculiar trait will be transmitted to the next generation or not can only be learned by actual experiment.

Plants for Spring Sales.

(50) When shall I sow the following to have nice stocky plants for Spring sales for outdoor planting: Asters, verbenas, heliotrope, pansy, salvia, forget-me-not?

—The verberna, heliotrope, pansy, salvia and forget-me-not should be sown at once; the asters need not be sown until early in March.

Nicotiana Sanderae.

(51) Will Nicotiana Sanderae bloom in a carnation house if seed is sown in pots now?

—The nicotiana, sown now, would not bloom early enough for Spring trade, but could be planted outdoors, where it would flower during the Summer.

Chrysanthemums.

(52) Can I get as good chrysanthemum stock from cuttings taken now, and then cuttings taken from those, as I could from stock plants? How late will it do to take cuttings of early and midseason varieties? I have no chrysanthemum stock, but know where I can get cuttings. What do you consider the best book on chrysanthemum culture?

—There is no choice between the two methods suggested; first-class stock can be grown either way. The middle of April is as late as one should take the cuttings to have really good blooms. Smith's Chrysanthemum Manual is the latest work on this subject, and can be safely recommended. It can be obtained from this office; price, 25c.

White Fly on Hibiscus.

(53) I enclose three leaves of hibiscus, the under part of which is covered with insects which are not old enough to fly. When they are fully developed they dart about like tiny white flies. Please tell me what they are and how to eradicate them. They came to me last year on rooted cuttings of pelargonium, multiplied rapidly, and during the Summer were as destructive out of doors as in the greenhouses.

—The leaves are infested with the common white fly, *Alysiodes*, and it is a difficult pest to eradicate. The best remedy is pyrethrum powder. Get this and apply it with a bellows, dusting every part of the plants that are infested.

Grafting Grape Vines.

(54) Please inform me whether it would be possible for me to graft or bud Muscat-Hamburg grapes on to

Gros Colman and Gros Maroc vines? We have all three growing side by side but the two last named are of undesirable flavor. If practicable, how would I proceed? Would they fruit the same year?

—Grape vines can be grafted, budded or inarched; I prefer the latter method. But suppose we are to graft a grapevine, owing to the nature of the vine and the liability of bleeding, which would destroy the graft, it would be well to wait until the vines had started into growth. By this means, the surplus sap is carried into the young growth. If I were to graft a vine, I should leave three or four inches of last season's wood at the base, or wherever I intended to put the graft. However, on whatever part the graft is set, leave a growing shoot in front of the graft for a time, to help carry off the surplus sap. Whip grafting is a good method. It would be well to have the cion in a warm place for a time, or the eyes, at almost the point of breaking. After the graft is put on and tied, a cover of grafting wax completes the operation. Still inarching is the best and quickest way of renewing, but this would mean buying as many pot vines as were desired to be inarched, starting up the pot vines at the same time as the vines in the house intended to be inarched. When the young shoots are, say, a foot long, or the young wood just firm enough to handle, then inarch, which is a simple process. Bring the young wood of the pot vine against the young wood of the permanent vine, cutting the young wood of each, where the two meet; then tie them with raffia. In a short time they will unite and grow away rapidly. The following season the old cane can be cut away. If they have made good canes, they would be in condition to carry a couple of bunches the following season. Gros Colman and Gros Marde should make good stock for Muscat Hamburg.

W. TURNER.

Wood Alcohol for Mealy Bug on Grapes.

(55) What is the method of applying wood alcohol for the destruction of mealy bug on grapes?

—Wood alcohol should be applied when the vines are dormant, or, say, after the vines have been cleaned in the usual manner. Take a paint brush and paint the canes all over, just enough to wet them. It will do no harm whatever to the vines; but certainly will make short work of the bugs.

WM. TURNER.

Wanted—A Filler for an Idle Bench

(56) Having a lot of idle bench space, which I will not need until June in a house I can keep from 50 to 60 degrees. I will be much obliged if you could kindly suggest something I could grow, perhaps from seed, for Spring trade with a reasonable hope of clearing same out at a margin. I have a lot of fresh home-grown browallia seed; would it be likely to have a ready sale from 2 1/4-in. pots? No local demand.

J.

—If we knew better what kind of a demand there is for plants in your locality, we could answer such a question more intelligently. Stocks, asters, verbenas, petunias and a host of other annuals could be sown now, and marketed before the first of June. If it is necessary to find a market elsewhere, however we would suggest purchasing young stock of geraniums and growing them on to flowering size; these, if well grown, can be sold and shipped easily to any point. We do not believe there could be much of a market found for the browallia.

Carnations.

(57) I have a house of carnations. I grow Queen Louise, Lawson pink and Mrs. Potter Palmer. In your judgment, what would be the best three kinds to grow in a house 50 to 56 degrees? White, pink and scarlet Mrs. Lawson and Queen Louise burst.

—The three varieties of carnations we would recommend for such a house would be: White; The Queen; pink, Enchantress; scarlet, J. H. Manley.

Carnations Sleeping on Plants.

(58) Can you tell me what is the cause of carnations going to sleep on the plants? I have a house of Wm. Scott, Mrs. Frances Joost, Queen Louise, Flora Hill, and other varieties. This house was planted only November 15, from the field, as the house was not finished before; and, of course, the stock is not what it should be. The other day I had to water the house, although it was a dark and cold day, but I couldn't wait longer. The same night I smoked the house quite heavily, and kept it a little warmer (60; usual 50-55) to help the plants to dry off, and the next morning I found all the open and half-open flowers asleep. What was the cause of that? I have never had it happen before in my 15 years' experience with carnations. I kept the house all along a little warmer than carnations are ordinarily kept, for the reason that they were planted so late.

—From the foregoing communication we would gather that the plants were very much on the dry side, or the watering would not have been done during such unsatisfactory weather conditions. The plants were evidently in a semi-wilted state for several days; and the fumigating, together with an excessively high temperature through the night, was the cause of the flowers going to sleep.

Hlon, N. Y.

Visits were made here recently on Theo. Schish, on West Hill, and Hakes & Son. The cut on flowers at Schish's had been cut very close, but everything was looking good. A grand bench of callas and plenty of them was seen at Seward Hakes's. Carnations here were good. Mr. Hakes grows a large number of bedding plants, thousands of geraniums, a big lot of vincas.

BOWLING.

FLATBUSH VS NEW YORK.—On Thursday evening, January 19, nine picked men from the New York Club went over to Flatbush to play a return match with that suburban club. The Flatbush bowlers have the best ventilated and most commodious alleys of any club that we know, and it is always a pleasure to meet that team on their own stamping ground. Four alleys were used in the match, so that it did not take long to decide who the winners were, even though there were nine men on each side. When the totals of the two games were counted, New York was 406 pins ahead.

After the match both teams sat down to an excellent dinner, provided by the Flatbush Club, and it was midnight nearly when that interesting session was brought to a finish. One more friendly game was enjoyed after the dinner, then Patrick O'Mara proposed three cheers for Flatbush, which were heartily given and brought to a close one of the most enjoyable bowling events of the season. The individual scores follow:

FLATBUSH.	
D. Y. Mellis	124
L. Schmitz	191
E. Dailleouze	136
W. H. Siebrecht	158
H. Dailleouze	129
P. Riley	166
C. Wocker	110
J. Scott	135
A. Zeller	130
Totals	1279

NEW YORK.	
F. H. Traendly	147
P. Kessler	197
A. S. Burns	176
J. Fenrich	139
J. A. Manda	153
S. S. Butterfield	128
J. A. Shaw	101
F. C. Holt	203
P. O'Mara	205
Totals	1454

Mr. O'Mara was awarded a miniature loving cup for making the highest score, 205.

WEST HOBOKEN, N. J.—The North Hudson Florists' Bowling Club has commenced to have weekly practice at their alleys in West Hoboken, and the following scores were made on Monday evening:

M. Hansen	153
L. Hansen	126
P. Fischer	125
O. Grundemann	128
E. Tschupp	108
H. Eicke	99
J. Birnie	111
W. Otte	133
H. C. Steinhoff	125
E. Bachler	117
H. Stern	132
— Bauman	90
— Helms	97

WASHINGTON, D. C.—The florists' bowling team made a good record last Wednesday night. The following are the scores:

Geo. Cooke	154
Geo. Schaffer	178
S. Simmonds	149
John Barry	127
Robt. McLennan	155

"THERE IS ONLY ONE"

The Fumigating Kind Tobacco Powder

What a Few Say, All That Use It Say

<p>NEW LONDON, CONN. "No, all flower growers are not liars." Your Fumigating Kind Tobacco Powder fits the bill. Clean, quick and efficacious. No dirty tobacco stems to litter up the pots, and taint the carnation flowers with an offensive odor that never leaves them. E. W. CLARK.</p>	<p>ST. CLOUD, MINN. Kindly send at once 50 lbs. The Fumigating Kind Tobacco Powder; best thing we ever used; cannot get same good results with any other preparation. THE KINDLER FLORAL CO.</p>	<p>NEW CASTLE, PA. Duplicating so often the past two years our order for The Fumigating Kind Tobacco Powder is a sure indication that it has no equal in our estimation; as an effective insecticide it does the work well. BUTZ BROS.</p>	<p>WEST WHITELAND, P. O. We have tried many fumigants but have found nothing in the market so effectual and easily used as The Fumigating Kind Tobacco Powder. Your prices are reasonable for so good an article. J. LEHMAN MAULL, Pres.</p>
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A FREE trial five-pound bag will cost you nothing more than the express charges on it. The trial bag will prove our assertion that it is the most effective, cleanest and quickest, as well as the cheapest (10 cents per 100-foot house) article to fumigate with. All aphids killed in one night—our booklet tells of it; we mail one on request.

THE H. A. STOOFFHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York

January 28, 1905

VIOLETS

Marie Louise, clean and healthy in every particular. \$5.00 per 100; \$45.00 per 1000. Cash with order. W. J. CHINNICK, Trenton, N. J.

GERANIUMS R. C. Single and double Grant. Nutt, Hill, B. Poitevine, J. Viaud. Favorite, J. Doyle, \$1.25 per 100; \$10.00 per 1000. From 2 1/4 in., strong, \$2.00 per 100; \$18.00 per 1000. Salvia and Achyranthus, from sand, \$10.00 per 1000. Cash please.

JAS. AMBACHER, West End, N. J. Mention the Florists' Exchange when writing.

CYCLAMEN Once transplanted, ready March 1. Seed of only selected flowers and choicest stock; none better. \$2.00 per 100; \$18.00 per 1000.

C. WINTERICH, Defiance, Ohio. Mention the Florists' Exchange when writing.

GERANIUMS

ROOTED CUTTINGS Fifteen varieties at \$10.00 and \$12.50 per 1000. Send for complete price list of Geraniums and Carnations.

ALBERTM. HERR, Lancaster, Pa.

GERANIUMS

2 1/4 in. fine stock, \$2.25 per 100. HELIOTROPE, 2 1/4 in., \$2.00 per 100. COLEUS, 2 1/4 in., \$2.00 per 100. BOSTON FERNS, 3 in. to close out, \$3.00 per 100. Cash with order, please.

W. H. PARSIL, Summit, N. J. Mention the Florists' Exchange when writing.

GERANIUMS

All cuttings booked until February 15. S. A. Nutt, transplanted stock, \$14.00 per 1,000. 2 1/4 in., \$20.00 per 1,000, ready for shipment. Cash with order.

PETER BROWN, Lancaster, Pa. Mention the Florists' Exchange when writing.

Gineraria Hybrida

Michell's best strain, 4 in., \$8.00. CASH WITH ORDER, PLEASE.

GODFREY ASCHMANN Wholesale Grower and Importer of Pot Plants 1012 Ontario St., PHILADELPHIA, PA.

Vinca Variegata

4 in. pots, \$8.00 per 100.

BOSTON FERNS Fine plants, 5 in. pots, 20c.; 4 in. pots, 15c.

Nephrolepis Fosteriana, fine, 4 in. pots, 15c.

T. W. A. SMITH, Biddeford, Me. Mention the Florists' Exchange when writing.

BERKSHIRE

New Seedling Double Pink Petunia Fringed.

Strong grower, very free bloomer and a beautiful shade of pink—color of Bridesmaid rose. I guarantee this Petunia to be as represented. Orders filled in rotation at the following prices: Rooted cuttings, prepaid, 25 for \$1.00; 50 for \$1.75; 100 for \$3.00; 2 1/4 in. pot plants, \$5.00 per 100, express. Cash with order.

L. W. ACHESON, Hamlin Street, Pittsfield, Mass. Mention the Florists' Exchange when writing.

30,000 DOUBLE PETUNIAS

Beautiful White, lovely shades of pink, splendid reds, crimson and purple and variegated. Rooted cuttings, by mail, \$1.25 per 100; \$10.00 per 1000, by express.

Petunia Grandiflora, 20 varieties, single	Per 100
Giant	\$1.25
Abutilon, 8 vars., R. C.	1.50
Mme. Sallerol, R. C.	2.00
Trailing Lantana, R. C.	1.25
Genista Fragrans, 4 in.	5.00
Strobilanthus Dyeriana, strong, September cent.	1.50
Gazania Splendens, R. C.	1.50
Ageratum, 3 varieties, R. C.	.75
Guphea, clear plant, R. C.	.75
Salvia, dwarf and tall	1.00

CASH with order, please.

GEORGE J. HUGHES, Berlin, N. J. Mention the Florists' Exchange when writing.

CANADIAN NEWS

TORONTO.—The event of last week was the open meeting of the Gardeners and Florists' Association held Tuesday night, January 17; about ninety members and friends attended. President George Douglas and the executive committee were all on deck to help move things along. J. H. Dunlop was asked to take the chair, and served with his usual ability. E. G. Hill, of Richmond, Ind., who, luckily, was in the city with a fine vase of his beautiful new rose Richmond, was called to a seat on the platform, as was R. J. Scoor, who was president of the late show here. A splendid program was rendered by Miss Crawford, J. Milne, W. J. Lawrence, Mrs. Houle and Miss Lawrence. The Foresters' Cup, won by Mr. Lawrence at the late show, was presented to him by Mr. Scoor. Mr. Hill gave a short, but very pleasing address. Mr. Hill says gardeners are poor talkers, but we think that he, for one, can touch responsive chords without much trouble. His new rose was much admired, and I fancy he must have booked some good orders for stock of it. Refreshments were served, and a very pleasant evening spent. It is safe to say that when we have an open night again we shall be obliged to have a considerably larger room.

The annual meeting of the Toronto Horticultural Society was held Tuesday, January 10. The evening was very stormy and only about thirty-five members were present. The election of officers resulted as follows: President, H. R. Frankland; vice-president, W. Rook; directors, H. Simmers, Wm. Jay, Wm. Foord, George Douglas, Geo. Mills, Wm. Tyrrell, Ross and Manton. The delegates to the exhibition are: H. R. Frankland and Wm. Rook. T. M.

MONTREAL.—Our Florists' Club will hold a Carnation Show on February 23 in Scroggie's departmental store. We expect that this will be the best exhibition of its kind held in this city. A silver cup will be offered for new varieties. Intending exhibitors should communicate with Mr. Horobin, 23 Closse street, Montreal.

The club dinner took place Monday night, January 16, in the club rooms. About fifty sat down and did justice to a fine bill of fare. The tables were beautifully decorated by Mr. Wilshire and Mr. Bennett.

B. Graves has a fine stock of freesias and other bulbous stock in store.

Geo. A. Robinson, of Hall & Robinson, has been elected a member of the Town Council of Outremont.

W. C. H.

ROCKFORD, ILL.—H. O. Hinkley writes us that the item which appeared in our issue of the 14th inst. is not exactly correct. He has already engaged in other business, but does not expect to dispose of his greenhouses. His intention is to continue to run them and dispose of the product at wholesale. He is simply quitting the retail business after this Winter.

PANSIES

THE JENNINGS STRAIN. Fine stock, choice colors. Large plants, in bud and bloom, \$1.00 per 100. Smaller sizes, from cold frames, \$3.50 per 1,000, by express. Small plants, by mail, 75 cts. per 100. Seed, \$1.00 per pkt.; \$5.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

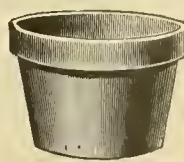
Mention the Florists' Exchange when writing.

GERANIUMS

In pots, soil easily shaken off to ship. Thirty young plants. Best double bedders, \$15.00 per 1000. Send for full list, etc. New Doubles, La Croix, intense scarlet; M. Roly, clear pink, first-class every way, \$4.00 per 100.

COLEUS R. C., Red, Yellow and other distinct colors, \$6.00 per 1000. Fancy, all bright colors, an extra choice selection, \$5.00 per 1000. Giant, large velvety leaves, over 20 varieties, grand colors, \$1.00 per 100.

DANIEL K. HERR, LANCASTER, PA. Mention the Florists' Exchange when writing.



FERN POT

IN ORDERING, SPECIFY THE SYRACUSE RED POTS



RED POT

IF YOU WANT THE BEST YOUR MONEY CAN BUY

THE CLAY IS STRONG, HENCE, THE POTS ARE THIN, POSSESS ALL REQUIRED STRENGTH—AND THE FREIGHT IS LESS.

Thin pots are best for propagating. Properly made and properly packed.

If your judgment prompts you to order once, your personal interests will insure re-orders.

POTS RIGHT, PRICES RIGHT, TREATMENT RIGHT.

"Made from the very best of clay. Made in the very best known way."

SYRACUSE POTTERY CO.



SEED PAN

711-713 East Division Street Syracuse, N. Y.



POT AND SAUCER

PANSY PLANTS

Large flowering	Per 1000	\$2.50
300 Pelargoniums, mixed 2 in. pot	.....	2.50
Asparagus Plumosus Nanus, small plants	.....	1.75
Geraniums, 10 Vars, 2 and 2 1/2 in. pot.	.....	2.50
Alternantheras, red and yellow, March 1	.....	2.00
Asparagus Plumosus Nanus Seed, February, \$5.00 per 1000	.....	.75
Coleus, 10 Vars, 2 in. pots, March 1	.....	2.00

Cash

JOS. H. CUNNINGHAM, Delaware, Ohio

COLEUS

ROOTED CUTTINGS

Verschaffeltii, Fire Brand, Golden Queen, Beckwiths Gem, Lord Palmerston, Queen Victoria and Fancies, 60c. per 100; \$5.00 per 1000. Golden Bedder (original) and Hero 75c. per 100; \$6.00 per 1000. A discount of 10 per cent. allowed on 10,000 or more Coleus. More liberal discount on large orders.

AGERATUM, Princess Pauline and Stella Gurney. SALVIA, Splendens and Jean Revenal, rooted cuttings, 75c. per 100; \$3.00 per 1000. VINCA VARIEGATA, 3 in pots, \$5.00 per 100.

FRANK A. PIERSON, Cromwell, Conn. Mention the Florists' Exchange when writing.

CINERARIAS

4000, 3 in. pots, very strong, medium large flowering, \$3.50 per 100.

Asparagus Plumosus, 3 in., \$5.00 per 100.

CHRYSANTHEMUMS

Stock Plant.

Polly Rose, Willowbrook, Montmort, Pacific, Morel, Appleton, Mand Dean, Ivory, white and yellow, Bonaffon, Golden Wedding, Jerome Jones, \$5.00 per 100.

J. D. BRENNEMAN, HARRISBURG, PA. Box 24. Mention the Florists' Exchange when writing.

CYCLAMEN

SPLENDENS GIGANTEUM HYBRIDS.

My well-known strain in bud and bloom in four colors, from 5 in. pots, \$2.50 per doz., \$20.00 per 100; (seedlings) twice transplanted from data \$3.00 per 100, \$25.00 per 1000.

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We have ready now 100,000 Geraniums, composed of the following varieties in 2 1/4 in. pots, at \$18.00 per 1000; \$2.00 per 100. S. A. Nutt, Beaute Poitevine, M. Canovers, Double Gen. Grant, Brunt, K. Brett, La Favorite, Perkins, all in fine condition. At these prices the selection of sorts to remain with us, Rose Geraniums, same price. Fuchsias, in variety, 2 1/4 in. pots, \$2.00 per 100; rooted cuttings, \$1.50 per 100. Coleus, 2 1/4 in. pots, \$2.00 per 100; rooted cuttings, 60c. per 100. Golden Bedder and Verschaffeltii in quantities. Heliotrope, all dark, 2 1/4 in. pots, \$3.00 per 100; rooted cuttings, \$1.00 per 100. Vincas, strong, 4 in. pots, \$5.00 per 100; rooted cuttings, \$1.25 per 100. English Ivy, 2 1/4 in. pots, \$2.50 per 100; rooted cuttings, \$1.25 per 100. German Ivy, 2 1/4 in. pots, \$2.50 per 100. Abutilon, Souvenir De Bonn, 2 1/4 in., \$3.00 per 100. Feverfew, 2 1/4 in., \$2.50 per 100. Dracena, 4 in., \$8.00 per 100. Blue Lobelia, 2 in., \$3.00 per 100; R. C., \$1.00 per 100. Salvia, 2 in., \$2.00 per 100; R. C., \$1.00 per 100. Ageratum, Stella Gurney, Princess Pauline and others, 2 in., \$1.50 per 100; R. C. 60c. per 100. Double Petunias, 2 in., \$2.50 per 100; R. C., \$1.50 per 100. Cash must accompany the order.

J. E. FELTHOUSEN, Soheneotady, N. Y.

SMITH'S CHRYSANTHEMUM MANUAL A Book That Every Grower Should Possess

PRICE 25 CENTS A. T. DE LA MARE PTG. AND PUB. CO. Ltd. 2-8 Duane Street, NEW YORK Mention the Florists' Exchange when writing.

Flatbush, N. Y.

A recent visit to the establishment of Dailedouze Bros., Flatbush, N. Y., reveals these eminent carnationists in the midst of heavy crops of superfine blooms. Nearly all the varieties cultivated have done exceedingly well this season; there are upward of 65,000 plants benched, and anyone conversant with carnation culture can imagine the amount of bloom produced by this number of plants, cultivated to the nicest point of perfection, as is done under the ever watchful eyes of the three Dailedouze Brothers.

Just as soon as a variety begins to show signs of deterioration its days are numbered at this establishment, no matter whether it is a pet seedling of their own or a highly commended sort from some other raiser, and we find on inquiry that the present season will be the last one here for a few varieties that have hitherto been held in the highest esteem. Mrs. M. A. Patten is proving to be the best variegated carnation ever introduced; it is very free, comes on long stems, the markings are such as do not preclude it from any kind of work in floral make-up, and it is a grand keeper. As grown here, it is exceedingly floriferous, and every bench in the house is a mass of buds and flowers. Several sports have occurred, all tending toward the Mrs. T. W. Lawson shade of color.

The variety Mrs. T. W. Lawson occupies three houses, all planted in solid beds, and all are producing enormously.

Of the several white seedlings that originated here, No. 144 stands at the head of the list; this is a strictly fancy bloom, the immense size of which has been previously mentioned in these columns. We are unable to say whether this big white variety will ever be disseminated or not, but we do know that the flowers have been bringing a fancy price in the New York market all Winter.

The Queen is planted largely and has proved herself to be a very profitable white. Fair Maid has hardly kept up to her usual vigor, but White Lawson, Enchantress and Lady Bountiful are all giving splendid results, the latter mentioned sort being very fine since the beginning of December.

Eldorado as seen here is a yellow field, and cannot be beat as a producer. Prosperity is as good to-day as it ever was and is still the highest priced commercial carnation in the market.

Genevieve Lord and Fragrance still hold their own in the light pink section, and are producing heavily. Flamingo looks fine just now, but for scarlet next year a seedling of home raising will be relied upon mostly to fill the bill. Here is also a crimson seedling that will take the place of other varieties, planted in the same house with Harry Fenn and Octoroon; it has them both beat for floriferousness and commercial purposes generally.

Among the seedlings being tried for the second and third year are several that look very promising, both in scarlets and in light pinks. One curiously blotched cardinal and white variety, as yet unnamed, but known among the men as "Chinaman," has a very fetching color effect, and, without a doubt, would prove a good commercial sort were it ever produced.

Indianapolis.

Notes.

Henry Rieman, A. Baur, Herman Junge, John Bertermann, Jno. Rieman and Mr. and Mrs. Edward Bertermann are attending the C. S. A. at Chicago this week. George Wiegand, who has been at St. Vincent's Hospital for the past two weeks, is again able to be about. The Smith & Young Co. is preparing to erect two rose houses, 30 x 400 feet, at their new Cumberland place. Clarence Thomas, of Bertermann Bros. Co., lost his father this week. The trade wishes to extend its sympathies.

F. B.

CROMWELL, CONN.—Mr. W. R. Pierson is at present sojourning in California. He was at San Francisco January 21, and from thence was going to Los Angeles (Hotel Lexington), to remain until February 15. From that city he will travel on into Mexico. As he expresses it: "Am feeling very well, indeed, and trying to see all there is here."

THE STANDARD TREATISE ON GARDENING.

THE GARDENER'S ASSISTANT

New Edition.

UNDER THE DIRECTION AND GENERAL EDITORSHIP OF

WILLIAM WATSON

Curator, Royal Gardens, Kew.

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For the past half-century THE GARDENER'S ASSISTANT has maintained its unique position as the standard treatise on practical and scientific horticulture.

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Everything has been done that could be done to elucidate the text by the free use of illustrations. These represent recent gardening appliances, houses, heating apparatus, flowers, trees, diagrams, schemes for laying out the garden, methods of pruning, etc. In fact, wherever a picture would be useful a picture is given. Moreover, in addition to the black-and-white text illustrations, there are twenty-five full-page black-and-white plates, and eighteen colored plates of flowers and fruits, specially prepared for the work by eminent artists.

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St. Louis.

A meeting was held on Thursday night at Louisiana Hall by some nineteen growers from St. Louis and Kirkwood for the purpose of organizing a Growers' Club. The writer was not present for reasons known only to himself, but this is what he heard: F. W. Ude, Jr., of Kirkwood, elected president; E. H. Michel, secretary. James W. Dunford, one of the ex-presidents of the St. Louis Florists' Club, made an eloquent speech. It is understood the name of this new club will be the St. Louis Plant Growers and Flower Association. A committee was appointed to draft by-laws and constitution; we did not learn the names of the committee. Henry Berning acted as door-keeper. No wholesalers or retailers were admitted.

The St. Louis party left for the American Carnation Society meeting last Tuesday night, via Wabash, at 9.15 p. m., in a special sleeper; the party included (as near as could be learned) Fred J. Ammann, John Steidel, Otto Koenig, Fred H. Meinhardt, A. Jablonsky, John Connon, Frank Fillmore, George M. Kellogg, Fred C. Weber, Wm. Winter, E. W. Guy and a few others. Most of these will stop off, coming back, at Fort Wayne, Lafayette, Richmond and Cincinnati.

The committee who have charge of the coming carnation exhibition at the St. Louis Florists' Club met at J. J. Beneke's store, in order to get up a list of the prizes; \$25 was set aside for outside growers and \$25 for the local growers, in four classes of fifty blooms each of white, pink, red and any other color for the outside growers, and four classes in white, pink, red and a mixed vase of fifty blooms for local growers and club members. This list is now in the hands of the printer and will be mailed by the end of the week to all carnation growers and club members.

Ellison Floral Co. are making preparations for moving their store across the way from their old location at Grand and Olive streets.

Ralph Ward was in town this week selling bulbs; he reports a heavy trade this season. Mr. Ward left Tuesday night with the St. Louis party for Chicago. ST. PATRICK.

Cleveland.

The florists are rejoicing over this comparatively mild Winter. Only a little more than half the coal has been consumed to double the quantity used last Winter in the same length of time, and good living prices prevail for all cut flowers, a great many being used for funeral work. Luncheons, parties and weddings are all over now until February brings St. Valentine's Day, when there will be a renewal of festivities and an increased sale of cut flowers for decorations. Mr. A. L. Brown, president of Cleveland Florist Club, informs us of a carnation exhibit to be held at the rooms of the club on Monday evening, February 13, after which a feast and a general good time will be indulged in. A visit to the greenhouses of the J. M. Gosser Co. and Herman Hart show those places to be up to the standard in good stock.

Miss Anna L. Westman, of Westman & Getz, has been home for the past week suffering from the grip and poisoning from Primula obconica; she is much improved.

James Willson, of Glenville, or rather of Cleveland since the annexation, is cutting some very fine Lawsons and Enchantress.

William Brinker's stock of seeds are about complete; he expects a few more shipments.

Chas. Guelph, of Jerome B. Rice Seed Co., was a visitor last week. O. G.

BOOKS

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THE FLORISTS' EXCHANGE, 2 Duane St., New York
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Review of the Market

NEW YORK.—Extremes of weather always have a bad effect on the flower business; it does not matter whether it is an extremely hot spell or a severely cold one, the result is the same so far as the buying and selling of cut flowers are concerned. We were just beginning the gay season, and hopes of a run of busy times were high, when the blizzard that struck us on Tuesday night called a sudden halt, and since then the flower business has remained decidedly inactive. Consignments have failed to arrive since Wednesday morning; still there is a scattering of stock on hand, left over from Tuesday's shipments. What the effect will be when trains begin to reach the city again, we can hardly surmise. Violets from up the Hudson are, no doubt, plentiful in the express cars on the trains, and will get here some time later, but what can be done with them when they reach here is a question that is bothering the dealers. Roses and carnations also will pile in when the trains get to moving again, and without a doubt there will be a lot of frozen stock landed in the market.

Previous to the storm, business was running along smoothly, special American Beauty roses had reached 75c. each, and all other roses were holding well at the advanced prices which we noted last week. All other flowers were clearing out fairly, though there had been no advance in values. The supply of narcissus had been further augmented by shipments of *N. poeticus*, which sold at figures ranging from \$1 to \$2 per 100. Some large pink tulips have also been received in limited quantities, for which as high as 75c. per dozen have been realized. Lily of the valley is a drug, and is offered quite cheap. There is some lilac on hand, and quite a few lilies, and with a moderation of the weather we may confidently look to a resuming of the business on fairly brisk lines, as the social whirl promises to be lively between now and the beginning of Lent.

CHICAGO.—During the past week, up to Saturday morning, the market was very quiet—a dullness that is unusual at this season. Trade had a certain quietness, which had never been known before. Saturday a feeling of briskness was noticeable, and has continued up to the present time. Wednesday morning prices had an upward tendency; some material gain has been noticed, yet not beyond the usual prices which generally prevail at this season, other conditions being taken into consideration, that is the scarcity of stock in some lines, especially tea roses, which are very scarce. Never have they been so scarce as at the present, and from what can be learned, there is but small prospects of any change for some time. American Beauty roses are not so plentiful as last writing, yet enough to fill all demands. Prices are about the same, namely \$2.50 to \$3 per dozen for the best grades; other grades from \$15 to \$4 per 100, according to quality.

Bride and Bridesmaid are a scarce article on this market just now, any good stock bringing a good price. Shippers find it hard to get enough to fill all orders, and local buyers are willing to pay a higher price than formerly if they can procure the stock. From growers it is learned that this condition will prevail for some little time. Prices range from \$4 to \$15 per 100, according to quality.

Golden Gate is in short supply, at from \$4 to \$15 per 100. Perle, from \$4 to \$10 per 100; Meteor, from \$4 to \$12 per 100, and not in great demand.

Mme. Abel Chatenay is not in such abundance as was anticipated, the demand being very good for them at the present time, and are selling at from \$4 to \$15 per 100, with a few extra select going higher than the latter price.

Liberty is in good demand, with the supply rather short, and prices nearly as high as at the holiday season, from \$4 to \$25 per 100.

Carnations are in short supply, with a good demand prevailing at the present writing. Shipping has picked up in the past few days and local trade has been good for the past few days, prices being from \$1 to \$5 per 100; a few extra fancies going beyond the latter figures, and some poor stock selling lower than the former price.

Violets are not as plentiful as heretofore, with prices ruling not much better, there being but little demand for them in local circles. Prices range from 25c. to \$1.25 per 100.

Lilies are seen in larger quantities than for some time, and the demand is not over heavy. Callas are appearing in quantities at prices from \$10 to \$15 per 100; Harrisii, \$12 to \$15 per 100; Romans, at \$2 to \$3 per 100.

from \$4 to \$10 per 100. Adiantum at 50c. to \$1 per 100. Smilax at \$12 to \$15 per 100. Asparagus at \$35 to \$50 per 100. Lily of the Valley at \$3 to \$4 per 100. R. J.

BALTIMORE.—Prices of stock as reported January 25, are as follows, quoted per 100:

Roses, American Beauty, fancy special, \$50; extra, \$35 to \$40; No. 1, \$25 to \$30; culls and ordinary, \$5 to \$15. Bride and Bridesmaid, fancy special, \$10; extra, \$8; No. 1, \$6; No. 2, \$4 to \$5; Golden Gate, \$5 to \$10; K. Augusta Victoria, \$5 to \$8; La France, \$5 to \$8; Papa Gontier, \$3 to \$4; Perle, \$4 to \$6.

Carnations, inferior grades, all colors, \$1 to \$1.25; standard varieties, white, \$2 to \$2.50; pink, red, yellow and variegated, \$2 to \$2.50; fancy varieties, white, pink, red, yellow and variegated, \$2.50 to \$3. Novelties, \$4 to \$5.

Adiantum, ordinary, \$1. Asparagus, plum, and ten., \$25 to \$50; sprengeri, \$25 to \$50.

Callas, \$6 to \$10. Freesia, 75c. to \$1.50. Galax leaves, 10c. Hyacinths, \$2 to \$3. Harrisii, \$10 to \$15; Mignonette, \$3 to \$4. Narcissus, \$2 to \$3. Smilax, \$15 to \$25. Sweet peas, \$1. Tulips, \$3. Violets, ordinary, 50c. to 60c.; extra, 75c. per 100.

ST. LOUIS.—The cold dull weather of the past week had a great deal to do with the dull business that was reported by the trade throughout the city. Demand for cut flowers continues very light, and the supplies in all kinds of flowers have shown a decided increase, and prices are very much lower than they have been; even prime stock, which generally sells well, was left over the past week.

This week the market opened up somewhat better, and Monday the wholesale houses cleaned up pretty well all their consignments, especially white stock, as plenty of funeral work was reported by the leading retailers; they report trade slow in decorations for social affairs.

Carnations are abundant in the colored varieties, though there is hardly a surplus of white. Prices run from \$4 to \$5 for extra fancy; \$2 to \$3 for good firsts, and \$1 to \$1.50 for common stock. Some extra preparations are being made for this flower for McKinley Day, the 29th.

Roses, fancy grades, are not over plentiful; light colored stock has the call. American Beauty are not having a big demand, the smaller roses selling much better. Prices on Bride, Bridesmaid, Golden Gate, Ivory, and for fancy, \$5 to \$8; firsts, \$3 to \$4; seconds, \$2 to \$2.50 per 100. Same prices control Meteor, Liberty and Perle. American Beauty, fancy, long, \$3 to \$4 per dozen; prices lower according to length of stem.

Bulbous flowers are very plentiful, especially so in Roman hyacinths and Paper White narcissus. There is also enough lily of the valley, plenty being left over for reserve stock for later in the day calls. Prices same as quoted last week. Harrisii and callas have some call and there are enough for all in the market. Violets have been very plentiful; the street men sold them last week at two bunches for 25c. Californias this week bring 40 to 75 cents per 100, according to grade. Smilax is plentiful at 15c. per string. Other greens equal the demand. ST. PATRICK.

CINCINNATI.—Quite an improvement was manifested in the demand for cut flowers during the past week and prices were a little firmer towards the end. At this writing stock of all kinds is scarce and in good demand. Bride and Bridesmaid are unusually scarce, very few coming into this market, and good stock readily fetches \$8 to \$10 per 100. American Beauty sells at fair prices; if they were more perfect in the bud, instead of so many ball heads, they would fetch more money. Green goods are plentiful, except Asparagus Sprengeri and plumosus; of these we could use more. Smilax is too soft. Tulips are now coming into the market, and sell at \$4 per 100; narcissus, \$3; lily of the valley, select, 5c.; medium, 4c.; seconds, 2c. to 3c. Violets are looking up a little for the better grades and 75c. to \$1 is now the selling price, with plenty to fill all orders. Lilies, \$1.50 to \$1.80 per dozen, and moving slow. E. G. GILLETT.

NEWPORT, R. I.—Outside of quite a good volume of funeral work, business with all the florists alike has been only fairly active the past week. Carnations still drag, and when \$2.00 a hundred is the top price the growers are able to get very little encouragement. At retail the price sticks at 50c. a doz. to the regular Winter trade; roses, \$1.50 to \$2.00 a doz.; lily of the valley, 75c. a doz. On the avenue, top prices for good stock are always obtained, but, of course, at this season very little is doing; now and again there will occur an important funeral, like the Ledyard burial this past week, when a large number of costly pieces will be ordered. F. W.

WASHINGTON, D. C.—There has been a good demand this week for good stock, the supply of which has been equal to the demand. American Beauty roses were very much in demand. At nearly every social event they were the prominent feature. They brought from \$5 to \$10 per dozen; Tom Fields, from \$5 to \$7 per dozen; Liberty, from \$3 to \$5 per dozen; Kaiserin Augusta Victoria, from \$2.50 to \$4 per dozen; Bride, Bridesmaid, Ivory, Meteor, Madame Abel Chatenay, from \$2 to \$3 per dozen. There is quite a demand for carnations, the best pink and red sorts bringing from \$2 to \$3 per dozen, and the other sorts from \$1 to \$1.75. Lily of the valley, which is coming in very fine, brought from \$1.50 to \$2 per dozen. The demand for violets has fallen off considerably this week; choice stock brought from \$1.50 to \$3 per 100. Lilies are selling well at \$3 per dozen. Liliura Harrisii, not much called for, brought \$2 per dozen. Jonquils are commencing to come in and sell readily at 75c. per 100. Sweet peas realize 50c. per bunch; mignonette, 75c. per bunch; narcissus and tulips, 75c. per dozen; Adiantum cuneatum fronds, from \$1 to \$1.50 per 100; Asparagus plumosus nanus and Sprengeri, from \$2 to \$3 per 100 sprays and strings. M. C.

INDIANAPOLIS, IND.—Some improvement has been noticed in business this week. The regular counter trade is heavier than at any time since the holidays. Funeral work, too, is plentiful; so no stock is going to waste, as during the previous two weeks. Large quantities of plants are on the market, but the demand for them is poor. Roses, with the exception of select Bride, are plentiful. Select Bridesmaid, Bride, Golden Gate and Mme. Abel Chatenay wholesale at \$7 to \$8 per 100; firsts sell at \$6 per 100, and seconds bring \$2 to \$3 per 100. Liberty is showing better color; the best of them sell at \$12 per 100; 36-inch Beauty brings \$3 per dozen, and 15-inch to 24-inch call at \$15 to \$20 per 100; shorts bring \$4 to \$8 per 100. Bulbous flowers are very plentiful. Narcissus, Roman hyacinths, lily of the valley and jonquils sell at \$3 to \$4 per 100 wholesale, and 60c. to 75c. per dozen, retail. Carnations are showing the effects of warm, rainy weather, complaints having been heard from the customers. Retailers have lost many of them the past week. Fancy varieties, such as Enchantress, bring \$4 to \$5, and good grades \$3 to \$3.50 per 100. The customary retail price is 75c. a dozen. Fair Marie Louise violets were plentiful at \$1 per 100. Tomlinson Hall Market business has been very quiet during the past week. F. B.

BOSTON.—Better grades of roses are seen at this season than have been noticed this winter. Especially is this so of Bride and Bridesmaid. The demand is good, and quick sales are the consequence. Prices are a little better than a week ago. Carnations are very plentiful, especially so of second grades, and whites are just as "druggy" as ever. Bulbous stock is now plentiful. Lilies are more plentiful than they have been, they being 8c. to 12c. Lily of the valley is plentiful, but is in fairly good demand. Violets are very abundant, in fact, are hard to move. J. W. D.

OMAHA, NEB.—No very bad effects were to be noticed as we emerged from our season of zero weather. The cold snap did not put a quietus on business for several days, and since then funeral work has been the main thing. Prices are steady, but stock is plentiful, though not over-abundant. B.

FIRMS WHO ARE BUILDING.

BRISTOL, R. I.—Samuel Kinder is erecting four large new greenhouses upon land which he recently purchased.

PORTCHESTER, N. Y.—Emil Leonard, the florist, will soon have a commodious and up-to-date greenhouse at the rear of his store on Liberty square.

LOCKPORT, N. Y.—Leo McCarthy, youngest son of Daniel F. McCarthy, the nurseryman, has begun work on two immense greenhouses on Summit street and by Spring will be prepared to supply his customers. The plant promises to be the largest in Lockport.

FIRES.

OMAHA, NEB.—On January 8, in the store of A. Donaghue, Jr., 1607 Farnam street. Damage will not exceed \$50.

NEW FIRMS.

Palm Fibre Flower Company, of New York; capital, \$50,000. Directors—Louis Group of Philadelphia, O. P. Van Tuyl and J. J. Sullivan, of New York.

SPRINGFIELD, O.—The Callander Cactus Company, of this city, has been incorporated in Columbus, with a capital stock of \$5,000, by J. H. Callander, H. L. Callander, W. W. Mumma, C. M. Kleinman and Leman Bradford.

FORT COLLINS, COL.—Mrs. E. P. Davis has disposed of the Pansy Place greenhouse. Mr. Hannawalt, of Denver, is the buyer.

CEDAR RAPIDS, IA.—The flower store at 411 Second avenue, formerly H. R. Morgan, has been purchased by the Cedar Rapids Floral Company, with Wilfred T. Emmons as manager.

DAVENPORT, IA.—H. E. Campbell has leased his greenhouses, for five years, to Lawrence Fortman and William F. Behring, of Rock Island, and will retire from the business.

COUNCIL BLUFFS, IA.—Articles of incorporation of the Reams-Lianson greenhouse have been filed for record. The incorporators are: L. H. Reams and F. L. Lainson. The capital stock is \$10,000.

UTICA, N. Y.—J. C. Spencer, the well known florist, and Henry G. Martin have formed a copartnership and will open a first-class flower store at 221 Genesee street, on or about February 1, 1905. It is a fine location and they should succeed. GOLD.

CALENDARS RECEIVED.

THE C. C. POLLWORTH CO., Milwaukee, Wis.—A serviceable wall calendar.

ELKHART, IND.—W. H. Troyer has moved his florist business to 403 South Main street.

Chicago.

News of the Week.

Zero weather struck us Tuesday afternoon, which will again cause trade to slacken up.

Carnationists from different sections of the country began to arrive on Tuesday morning. The advance guard came in early, so as to be able to visit some of the local men before the Convention opened up on Wednesday.

P. J. Hauswirth has been busy during the first of the week getting the hall in shape for the Convention, giving his personal attention to every detail. Vaughan's Seed Store is undergoing a thorough cleaning and painting prior to the opening up of Spring business.

E. A. Asmus & Co. have sold the stock of greenhouse plants and fixtures of the store at Evanston and Kenmore avenues and rented the same to Leopold Koropp, 252 West Ravenswood Park, the latter taking immediate possession. He intends incorporating the business under the name of the Sheridan Park Floral Co.

Stollery Bros. are cutting a fine crop of Loraine tulips, which are selling at \$4.00 to \$5.00 per 100, and in great demand at those prices.

Married at the residence of the bride's parents, Mr. and Mrs. B. Daniels, 523 Otto street, Miss Jennie G. Daniels and Edwin C. Benty, January 25. The groom is a son of Mr. F. F. Benty, the well-known wholesale florist at 85 Randolph street, and also a member of the firm of The Benty-Coatsworth Co. The bride was identified with the trade for some time, having been book-keeper for Weiland & Risch a few years ago. Their many friends in the trade, as well as the writer, wish them a long, happy and prosperous life together.

L. Coatsworth was a New Castle visitor last week superintending repairs at the greenhouses, returning in time for the Convention.

ROBERT JOHNSTONE.

BURNETT, CAL.—The Wolfskill Nurseries are to open two retail flower stores in Los Angeles. This firm has twelve large 250-foot greenhouses, modern in every respect, filled with fine carnations, roses and ferns.

Outdoor grown carnations still hold a firm place in the market there being about 40,000 blooms a day handled in Los Angeles during the Winter season. Violets are plentiful, about 1,000 bunches of 100 blooms each being handled daily. The wholesale price is 7½c. per bunch; retail, 25c. The variety is Princess of Wales.

Asparagus plumosus has about superseded smilax. Both of these plants are grown here in lath, or lattice, houses. E. R. Meserve, Long Beach, has the largest houses in Southern California; one house of 16,000 strings A. plumosus and one of 12,000 smilax. He is now duplicating the asparagus house, the latter being 14 feet high, in order to give 12-foot strings. Mr. Meserve expects to ship Asparagus plumosus to Western and Middle States.

The boys on the streets sell more carnations and violets than the regular stores; reasonable prices make ready sales. ST. E.

HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

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E. A. BEAVEN, Evergreen, Alabama

Pipes Burst!

GET A **Pipe Patch**



Applied in One Minute

Stops Leaks in Water, Steam and Gas Pipes without calling in the plumber or shutting off supply.

A convenience and a money-saver to owners of Factories, Apartment Houses, Residences, Hotels and Stables. No Engine Room complete without it. Will stand any pressure.

Keep One on Hand

Sent postpaid—Order by sizes:
No. 1—fits 1-2 or 3-4 inch pipe—50 cts.
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Write for one now, or call at my office
John W. Baker, 55 West 26th Street, New York City

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San Francisco.

SAN FRANCISCO, CAL.—In many of the city's homes it seems as though the holidays were not yet over, for they are still blooming with holly berries and the cheery reminders of Christmas time. And the prevailing voice of the cut flower trade is that this post-holiday season is remarkable for its continued good run of choice blooms and red berry selling.

One of the uppermost questions just now in trade circles has reference to whether or not the primal flower trade feature of New Year's Day is to be transferred to Christmas time. The Jewish people are many in San Francisco and their homes rank with the best; as flower buyers they are second to none in this city and the florists value their trade highly, their home floral adornment on New Year's Day always being superb. Is this trade to be absorbed at Christmas' time is the question? Certain Jewish ladies here argue that the celebration of Christmas should be a universal one, claiming that while the season of Christmas seemed to belong exclusively to the Christians, the origin of the festival went back to Norse times, and hence it was distinctly of Christian origin. Because the season stood for peace on earth and good will to men, they held that it could be indorsed and recognized by the Jewish people.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI

The Most Magnificent Tree Fern in Cultivation.

Extra Large Specimens.

12 in. pots	.....	\$16.00 each; \$25.00 per pair
10 in. pots	.....	5.00 each; 9.50 per pair
8 in. pots	.....	2.75 each; 32.00 per doz.
7 in. pots	.....	1.75 each; 20.00 per doz.

Adiantum Cuneatum, 4 in. \$15.00 per 100
Adiantum Rhodophyllum, 4 in. 20.00 per 100
Adiantum Rhodophyllum, 3 in. 12.00 per 100

ASSORTED FERNS

4 inch, suitable for large Jardinières and basket work, in 10 good varieties, \$15.00 per 100
Asparagus Plumosus Nanus, 4 in. \$20.00 per 100
Asparagus Sprengeri, 4 in. 12.00 per 100

ASSORTED FERNS FOR JARDINIERS

In all the best varieties, fine bushy stock, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000, 500 at 1000 rate.

ANDERSON & CHRISTENSEN, Telephone Call 14 E., Short Hills, N. J.
Mention the Florists' Exchange when writing.

N. LECAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214 Madison Square

Stands at Cut Flower Exchange Coogan Bldg., W. 26th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Lencothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves

75c. per 1000.

BOULDER, COL.—Charles F. Fawcett, a florist, is suffering from blood poisoning in his right hand. He thinks he got the poison from a rose thorn.

COLORADO SPRINGS, COL.—S. R. Lundy, formerly of Pueblo, Col., has accepted a position here with J. B. Braidwood.

PARIS DAISY

Giant white, 2 in. \$2.50 per 100.

Asparagus Plumosus Nanus, Extra heavy. 2 in. 2c., 3 in., very fine, 4c.; sprengerii, \$1.75 per 100. Abutilon, 4 vars., 2 1/2 in., 3c. Umbrella Plants, 2 in., 2 1/2c., Rotted Pinks, field clumps, 5 kinds, 6c.

LIST BELOW, ROOTED CUTTINGS, prepaid, per 100: Ageratum, Gurnsey, Pauline, 50c. Salvia Splendens, Bonfire, Silverspot, 90c. Fuchsias, 5 best vars, \$1.25; Heliotrope, \$1.00; Double Petunias, 10 finest, \$1.00; Hardy Pinks, 7 sorts, some everblooming, 75c., \$7.00 per 1000; Rex Begonias, R. O., 16 sorts, mixed, \$1.10; Alternanthera, red, yellow, R. O., 60c. \$1.50 per 1000; Vinca, variegated, 90c; Everblooming Forget-me-not, \$1.00; Tradescantia, 2 kinds, 75c.

CASH. **BYER BROS., Chambersburg, Pa.**
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Wholesale Florist and Grower

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ASPARACUS—SMILAX—ROSES

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FANCY OR DAGGER FERNS

\$1.25 per 1000.

GALAX, brilliant bronze or green, 75c. per 1000; \$3.50 per case of 10,000. Laurel Festooning, hand-made, full sizes, 4c., 6c. and 6c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle. Southern Wild Smilax, \$5.50 per 50 lb. case. Laurel Wreaths and Prince's Pine Wreaths made all sizes and prices. Prince's Pine by the lb. and made into roping. Tell us your wants and we will name you prices.



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MILLINGTON, MASS.
Telegraph Office: New Salem, Mass.
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SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$6.00; 25-lb. case, \$3.25.

OALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.

Sphagnum Moss—Large hals, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.

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JOSEPH HEACOCK WYNCOTE PA.

Grower of

KENTIA BELMOREANA AND KENTIA FORSTERIANA

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Nephrolepis Scottii

The best commercial Fern ever introduced. Write for particulars and prices.

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Galax Bronze or Green
\$1.00 Per 1000

Fancy, \$1.50 per 1000
Dagger, \$1.00 per 1000

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ORCHIDS

Cattleya Mendelii

Just arrived in fine condition a shipment of this scarce and beautiful Cattleya. Also Lelia Anceps, Oncidium tigrinum, O. Papilio, etc.
Write for special list No. 14.

LAGER & HURRELL, - SUMMIT, N. J.
ORCHID GROWERS AND IMPORTERS.
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Boston Ferns

Extra fine stock, out from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100. Kentias, Rubbers, Asparagus, Plumosus Nanus. Cash or references, please.

L. H. FOSTER, 45 King St. DORCHESTER, MASS.
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Strong 5-inch stock, 20c. and 25c.
Foster Ferns, fine plants, in 4-inch pots, full and bushy, 12c. This is extra good value.
Primula Obconica gr., 4-inch pots, fine stock, in bloom, 10c. Cash please.

R. G. HANFORD, Norwalk, Conn
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\$1.50 per 1000.

WILD SMILAX, \$4.00 and \$7.00 per case.

GALAX, New crop. Green and bronze, \$1.00 per 1000.

Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Imported Lilies, Cynon Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 6c. and 6c. per yard.

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GEO. M. EMMANS, Newton, N. J.

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PALMS AND FERNS

Pleasant and Boston Ferns, strong runners from bench, \$25 for 2 1/2 in. and 3 in. pots, \$20.00 per 1000; 5 in., \$35.00; 6 in., \$40.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward.

Ferns in variety from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Lantana Borbonica, 3 in., pots, \$5.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00. 6 in. pots, \$16.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each.

Araea Lutescens, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants from \$1.50 up.

Araucaria Excelsa, 4 in., 45c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up.

Araucaria Compacta, from \$1.00 to \$5.00 each. Pandanus Utilis, 8 in. pots, 50c. Dracaena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Reclinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$9.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, 8 in. pots, \$3.00 to \$35.00 each. Azalea, 10 in. to 12 in., \$35.00 per 100. Larger sizes at lowest rates. Plants in fine condition.

JOHN BADER,
Troy Hill, Allegheny City Pa.
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ORCHIDS, PALMS FOLIAGE PLANTS BAY TREES

ALL SIZES AND PRICES

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 Violets, Roses, Carnations, Orchids
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 To be disseminated 1906. Also a complete line
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 { 2201 Madison Square
 57 West 28th Street, NEW YORK

Wholesale Prices of Cut Flowers, New York, January 27, 1905.

Prices quoted are by the hundred unless otherwise noted.

A. BEAUTY, fancy—special	50.00 to	75.00	Inf'r grades, all colors.....	.75 to	1.50
" extra	20.00 to	30.00	STANDARD { White.....	1.50 to	3.00
" No. 1	15.00 to	20.00	" { Red.....	1.50 to	3.00
" No. 2	6.00 to	8.00	" { White.....	1.50 to	3.00
" No. 3	3.00 to	4.00	" { Yel. & Var.....	1.50 to	3.00
Bride, 'Maid, fancy—spe'l	12.00 to	15.00	" { White.....	3.00 to	4.00
" extra	8.00 to	10.00	" { Pink.....	3.00 to	4.00
" No. 1	4.00 to	6.00	" { Red.....	3.00 to	4.00
" No. 2	3.00 to	4.00	" { Yel. & Var.....	3.00 to	4.00
Golden Gate	3.00 to	15.00	" { NOVELTIES.....	6.00 to	8.00
Liberty	5.00 to	50.00	LILIES	10.00 to	12.00
Meteor	3.00 to	8.00	LILY OF THE VALLEY	1.00 to	2.00
Mme. Abel Chatenay	2.00 to	10.00	MIGNONETTE, ordinary	2.00 to	4.00
ADIANTHUM.....	.50 to	.75	" fancy	6.00 to	10.00
ASPARAGUS	25.00 to	50.00	NARCISBUS, Paper White	1.00 to	2.00
" Sprengeri, bunches	15.00 to	35.00	" Golden Spur	2.00 to	4.00
CALLAS	10.00 to	12.00	" Ordinary Yellow	1.00 to	2.00
CATTLEYS	25.00 to	50.00	PANSIES, per dozen bunches.....	..... to	.25
CYPRIPEDIUMS	6.00 to	12.00	ROMAN HYACINTHS	1.00 to	1.50
DAISIES.....	.50 to	1.00	SMILAX	10.00 to	12.00
FREESIAs, per bunch.....	..... to	.25	STOCKS, per bunch.....	.05 to	.10
LILAC, per bunch75 to	1.00	TOLIPS	1.00 to	2.00
			" specials35 to	.50
				.60 to	.75

WALTER F. SHERIDAN

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 39 WEST 28TH ST., NEW YORK
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
 Meteor, Lily of the Valley, Carnations
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JOHN I. RAYNOR, 49 West 28th St., NEW YORK

EDW. C. HORAN

We have a fine grade of everything in market at present.
 Send us a Trial Order and we will do the rest.
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NEW YORK
 CUT FLOWERS AT WHOLESALE
 Mention the Florists' Exchange when writing.
 Receiving Daily
 Fine
 PRES. CARNOT
 KAISERINS
 METEORS
 BEAUTIES
 Etc.

Syracuse, N. Y.

At P. R. Quinlan & Co.'s new place in the Onondaga Valley can be seen one of the most up-to-date establishments in the country. Mr. Robert Dunn, successor to Mr. Bard, met us very cordially; he was formerly with Mr. Montgomery. The six 200-foot carnation houses were in fine shape. Some of the varieties grown here are Lawson, Wolcott, Governor Lowndes, Glacier, Fenn, Queen, Queen Louise, Enchantress, Lady Bountiful, Vespers, a few Flamingo, Harlowarden, Fair Maid, Estelle and Marquis. I do not think Vespers is a new variety, but it was to me, and it certainly is a grand flower. In the rose houses are grown Bride, Bridesmaid, Hoste, Golden Gate, Ivory, Wellesley, American Beauty. A fine sport was seen, pink in color. Mr. Dunn is getting along all right in his new position. This firm has recently put in two new boilers, one of 80 and one of 60 horse power, but are using only one at present. They have also erected one new house for hardy plants.

At L. E. Marquise's establishment Flamingo was found doing well, and he says he is having no trouble this year in rooting it; it is a fine flower as seen here. We also saw a house of Enchantress and Albatross in good condition; a large house of seedlings consisted of extra good flowers, and I suppose will be heard from later on; they are of all colors.

At Wheadon & Hinckle's, 329 South Warren street, who opened a new store last August, business was reported very good, far better than expected. Mr. Wheadon was formerly with P. R. Quinlan & Co.

We called at P. R. Quinlan's store, on South Salina street. Mr. Quinlan was out of town, but after a pleasant chat with Mr. Robinson, we left for Bard & Davis's, corner Wilbur and Bryant avenues. Here they were busy getting carnation cuttings ready. Since I was here last a fine new house has been erected, which will be filled with plants for the Spring. A house of Lady Bountiful was in extra fine condition, as was also Enchantress. Roses, as in most places just now, were a little off crop, but a bunch of Hoste was all right. They have room for several more houses and intend building in the Spring.

At P. R. Quinlan's old place was found everything but roses and carnations, all looking good—a big house of azaleas, one of lilies, one of mignonette, one of cyclamen and primroses, two of palms, one each of smilax and asparagus. A new sport in a fern, a grand thing, not yet on the market, was noticed. They are now rooting thousands of Lorraine. Mr. Quinlan said this plant had been the best thing for the holidays with him.

Henry Morris had a fine display of cyclamen, primroses and carnations in his window and some fine roses in his cooler. Trade reported very good here.

UTICA.—Everything pertaining to our carnation meeting is pointing to a big time, and it will probably be the largest one of the year. The Committee on Entertainment are working like beavers.
 QUITZ.



Telephone Call:
 756 Madison Sq.
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THE AMERICAN CARNATION
 Price, \$3.50
A. T. DELAMARE PTG. & PUB. CO. LTD.
 2 to 8 Duane St., N. Y.

The Florists' Exchange

White Lilac, Gardenias, Orange Blossoms, Daffodils and other
seasonable
SPRING
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PITTSBURG CUT FLOWER CO., Ltd
504 Liberty Ave., PITTSBURG, PA.

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CARNATIONS

THE LEO NIESSEN COMPANY

In Any Quantity. No better stock coming to this market

STORE OPEN FROM 7 A.M. to 8 P.M. 1217 Arch St., Philadelphia, Pa.

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R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers
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HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses. Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN
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SAMUEL S. PENNOCK

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THE Wholesale Florist of Philadelphia

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GALAX LEAVES, LEUCOTHOE SPRAYS
GREEN SHEET MOSS
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Wholesale Florists
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Long Distance 'Phone, 1435 Court.
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Wholesale Prices of Cut Flowers—Per 100

Names and Varieties	Boston	Phil'delphia	Baltimore	Buffalo	Pittsburg
	Jan. 23, 1905	Jan. 11, 1905	Jan. 18, 1905	Jan. 24, 1905	Jan. 24, 1905
A. BEAUTY, fancy—special.....	20.00 to 40.00	..... to	40.00 to 60.00	40.00 to 60.00	60.00 to 60.00
" extra	10.00 to 20.00	60.00 to 80.00	25.00 to 35.00	20.00 to 30.00	30.00 to 40.00
" No. 1	6.00 to 10.00	40.00 to 50.00	15.00 to 20.00	10.00 to 15.00	15.00 to 20.00
" Culls and Ordinary .....	..... to	24.00 to 40.00	6.00 to 12.00	3.00 to 6.00	6.00 to 10.00
Queen of Edgely.....	12.00 to 15.00	..... to	8.00 to 10.00	12.00 to 15.00	15.00 to 18.00
Bride, 'Maid, fancy—special.....	8.00 to 12.00	..... to .....	..... to	8.00 to 10.00	10.00 to 12.00
" extra	4.00 to 8.00	10.00 to 12.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" No. 1.....	2.00 to 4.00	5.00 to 8.00	4.00 to 6.00	3.00 to 4.00	..... to 4.00
" No. 2.....	..... to	5.00 to 15.00	6.00 to 10.00	3.00 to 8.00	4.00 to 8.00
Golden Gate.....	..... to .....	..... to	5.00 to 8.00	2.00 to 10.00	..... to
K. A. Victoria.....	..... to .....	..... to .....	..... to	3.00 to 15.00	8.00 to 10.00
Liberty.....	6.00 to 30.00	6.00 to 40.00	..... to	3.00 to 18.00	10.00 to 25.00
Meteor.....	..... to .....	..... to	6.00 to 8.00	3.00 to 15.00	8.00 to 10.00
Perle.....	..... to .....	..... to	4.00 to 6.00	3.00 to 8.00	4.00 to 8.00
ORCHIDS—Cattleyas.....	..... to .....	..... to 60.00	..... to .....	..... to .....	..... to
Cypripediums.....	..... to .....	..... to 15.00	..... to .....	..... to .....	..... to
Inferior grades, all colors.....	1.00 to	1.50 to	1.00 to 1.50	1.00 to 1.50	1.50 to 2.00
STANDARD.....	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.50 to 2.00
VARIETIES.....	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.50 to 2.00
" White.....	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.50 to 2.00
" Red.....	1.00 to 2.00	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.50 to 2.00
" Yellow and var.....	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00	3.00 to 4.00
" White.....	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00	3.00 to 4.00
" Pink.....	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00	3.00 to 4.00
" Red.....	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00	3.00 to 4.00
" Yellow and var.....	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00	3.00 to 4.00
NOVELTIES.....	4.00 to 5.00	..... to	4.00 to 5.00	5.00 to 6.00	..... to 5.00
ADIANTUM.....	.50 to .75	1.00 to 1.50	..... to 1.00	.75 to 1.00	1.00 to 1.50
ASPENOS.....	..... to 80.00	25.00 to 50.00	25.00 to 60.00	40.00 to 60.00	30.00 to 60.00
ASTER.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
CARYOPHYLLUMS, ordinary.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" fancy.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
DAHLIAS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
DAISIES.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
GLADIOLUS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
LILIES.....	8.00 to 12.00	..... to 20.00	12.00 to 16.00	..... to 15.00	16.00 to 20.00
LILY OF THE VALLEY.....	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	3.00 to 6.00	3.00 to 4.00
MIGNONETTE.....	1.00 to 3.00	4.00 to 6.00	3.00 to 4.00	3.00 to 6.00	2.00 to 3.00
" fancy.....	3.00 to 4.00	..... to 8.00	..... to	6.00 to 8.00	4.00 to 5.00
NARCISSUS.....	1.00 to 4.00	..... to	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00
PANIES.....	..... to .....	..... to .....	..... to .....	..... to	1.00 to 2.00
SMILAX.....	10.00 to 12.00	..... to 15.00	15.00 to 20.00	..... to 15.00	12.50 to 16.00
SWEET PEAS.....	..... to .....	..... to	1.00 to 1.50	..... to .....	.50 to 1.00
TUBEROSES.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
VIOLETS.....	.35 to .75	.50 to 1.60	.40 to .75	.50 to 1.25	.50 to 1.25

BOSTON, MASS.

Asparagus Plumosus
Mignonette
Chrysanthemums
Lily Harrisi
Brides, 'Maid
American Beauties

WELCH BROS.
PROPRIETORS
CITY HALL CUT FLOWER MARKET
15 PROVINCE ST.—9 CHAPMAN PL.

Kaiserlins
Violets
Carnots
Orchids
Valley
Carnations

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268
Mention the Florists' Exchange when writing.

MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager
FANCY FERNS, \$1.50 per 1000.
DAGGER FERNS, \$1.60 per 1000.
38-40 Miami Ave., Detroit, Mich.
Mention the Florists' Exchange when writing.

Hardy Cut Ferns

Dagger and Fancy, \$1.50 per 1000.
Bright new Bronze and Green Galax, \$1.00 per 1000.
Sphagnum Moss, 40c. per bag; \$1.00 per bbl.
Ivy Leaves, 40c. per 100.
Laurel, 50c. per bunch. Roping, 6c. and 8c. per yard.

DISCOUNT ON LARGE ORDERS.
Orders sent by mail or telegraph receive prompt and personal attention.
CASH WITH ORDER.
WM. NISBET & CO.
54 Pemberton Square, Boston, Mass.
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DUMONT & CO.
Wholesale Florists

Carnations a Specialty
No. 1305 Filbert St., Philadelphia
Bell and Keystone 'Phones.
Mention the Florists' Exchange when writing.

CALL ON **EUGENE BERNHEIMER** FOR PROMPT DELIVERY OF
Carnations, Roses, Valley 11 South 16th Street, PHILADELPHIA
Mention the Florists' Exchange when writing.

WM. J. MOORE
Wholesale Florist
1235-37 FILBERT STREET
"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.
Bell and Keystone 'Phones.
Consignment of CARNATIONS and ASPARAGUS Solicited.
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Worcester Conservatories
Wholesale Growers of
CUT FLOWERS
Prompt attention given all orders.
WORCESTER, MASS
Mention the Florists' Exchange when writing.

Headquarters in Western New York
For ROSES, CARNATIONS
And all kinds of Seasonable Flowers

WM. F. KASTING
Wholesale Commission Florist
ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS
383-87 Ellicott St. BUFFALO, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU
Mention the Florists' Exchange when writing.

Washington, D. C.

President and Mrs. Roosevelt gave a dinner to the Diplomatic Corps last Thursday. The dinner table decorations were of cattleyas, cypripediums, lily of the valley and Farleyense ferns. The effect was very fine; the authorities considered it the finest table decoration that has ever been seen in the White House. The pieces were all oval and circular baskets. The vases, which usually are such a prominent feature, were entirely omitted, and this seemed to be a great improvement. The corsage bouquets were of cattleyas, and the boutonnières of cypripedium, lily of the valley and Farleyense ferns. The house was tastefully decorated with azaleas, camellias, Glory of Wellesley begonia and ferns.

Henry Small & Sons had a large decoration for a masquerade ball, when groups of American Beauty roses were displayed in every available place. The supper table was decorated with Gloire de Lorraine and Farleyense ferns. This firm has secured the decorations of the Pension Office for the Inaugural Ball. J. R. Freeman had two large decorations on Thursday and Friday. Lilies and ferns were used in the groups. The table decorations were of American Beauty roses and red carnations. J. H. Kramer is bringing in some extra fine American Beauty roses and azalea plants from his Anacostia place.

Z. D. Blackstone has just executed a wedding order. The church was tastefully decorated with Southern smilax and poinsettias. The bride's bouquet was composed of lily of the valley and violets; those of the bridesmaids of Bridesmaid roses. George Shaffer and George Cook have both been very busy with dinner decorations this week. Minder Brothers are bringing on some fine azaleas. The Ley Brothers report having done a good business. J. L. Loosé is having a big run on azalea plants in five-inch pots. W. Clark is bringing in some extra fine Kaiserin and President Carnot roses. The American Rose Company report doing a rushing shipping trade. George Field's cattleyas, vandas and cypripediums are in fine shape; he has a large demand for orchids, both at home and out of town. Gude Brothers have secured the contract for large quantities of wreathing for the Inauguration. M. C.

CANANDAIGUA, N. Y.—R. H. McKerr and A. C. Cappon each had his usual fine display of plants and flowers at Christmas. Azaleas, begonias, cyclamen and primulas had a splendid call, also the ever-popular Boston fern; Cappon having some very well grown plants of the same. Mr. McKerr, as usual, led in the cut flower business, his cut of carnations during Christmas being over three thousand, which were readily disposed of at good prices. Flamingo here is grand, and a house of Enchantress is certainly a wonder. Holly sold very well; and where a man wants to pay a good fair price for fine roping he can readily obtain the same, and both string and wire will be covered all right.

The business done Christmas week was 50 per cent. ahead of last year's. SUBSCRIBER.

Orchid Peat FOR IMMEDIATE DELIVERY.

Special price on Rotted Peat for one month. Write at once. Walden, N. Y. C. W. BROWNELL & CO., Orange Co., N. Y. Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Table with 2 columns: Price per crate, Price per crate. Lists various pot sizes and prices.

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. HILFINGER BROS., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts. 51 Barclay St., N. Y. City Mention the Florists' Exchange when writing.

NOTICE

On and after February 1st, 1905, we will SELL OUR SCRIPT LETTERS AT 3c. PER LETTER. Our Agents are as follows:

- James Vicks' Sons, Rochester, N. Y. Rennie & Pino, Providence, R. I. Holton & Hunkel, Milwaukee, Wis. Frank S. Platt, New Haven, Conn. Michigan Cut Flower Co., Detroit, Mich. H. Bayersdorfer & Co., Philadelphia, Pa. J. M. McCullough's Sons Co., Cincinnati, O. C. C. Pollworth, Milwaukee, Wis. E. H. Hunt, Chicago, Ill. Vaughan's Seed Stores, New York and Chicago. Pittsburg Cut Flower Co., Pittsburg, Pa. F. H. Ebeling, Syracuse, N. Y. Providence Seed Co., Providence, R. I. J. A. Simmers, Toronto, Ont. The Henry Phillips Seed Co., Toledo, O. Welch Bros., Boston, Mass. Wm. T. Phillips & Co., Toledo, O. Huntington & Page, Indianapolis, Ind. C. A. Kuehn, St. Louis, Mo.

Boston Florist Letter Co. 13 Green Street, Boston, Mass.

Mention the Florists' Exchange when writing.

A large lot of large sized "Latania Borbonica"

Leaves from the Philippine Islands for sale at one quarter of cost. These will make beautiful decorations, as well as leaves for large plants.

L. WERTHEIMBER & CO., Foreign & Domestic Specialties, 39 Barclay St., New York.

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Wired Toothpicks

10,000, \$1.50 50,000, \$6.25

MANUFACTURED BY W. J. COWEE, Berlin, N. Y. Samples free. For sale by dealers. Mention the Florists' Exchange when writing.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always.

Table with 2 columns: Size No., Price per 100; Price per 1000. Lists various box sizes and prices.

Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.

THE LIVINGSTON SEED CO., Box 104, Columbus, O. Mention the Florists' Exchange when writing.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A." Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION Mention the Florists' Exchange when writing.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

E. C. AMLING

The Largest, Best Equipped, Most Centrally Located Wholesale Cut-Flower House In Chicago 32, 34, 36 Randolph St., CHICAGO, ILL.

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Successor to Illinois Cut Flower Co. Wholesale Cut Flowers Consignments Solicited. 51 and 53 Wabash Avenue, CHICAGO

CHARLES W. MCKELLAR

Wholesale Commission Florist And Dealer in all Florists' Supplies 51 WABASH AVENUE, CHICAGO

Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Large table with columns: Names and Varieties, Chicago Jan. 17, '05, St. Louis [Jan. 23, '05], Cincinnati Jan. 23, '05, Milwaukee Jan. 9, '05, Toronto. Lists various flower types and prices.

FLOWER GROWERS' MARKET

60 WABASH AVE., CHICAGO Sell Your Stock There See PERCY JONES, Manager Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS. Mention the Florists' Exchange when writing.

SINNER BROS.

Wholesale Growers and Shippers of CUT FLOWERS 58-60 Wabash Ave., Chicago, Ill. With the Flower Growers' Co. TELEPHONE, CENTRAL 8067. All telephone and telegraph orders given prompt attention. Mention the Florists' Exchange when writing.

VAUGHAN & SPERRY

58-60 Wabash Ave., CHICAGO WHOLESALE FLORISTS Florists' Supplies All Cut Flowers at Ruling Market Prices Mention the Florists' Exchange when writing.

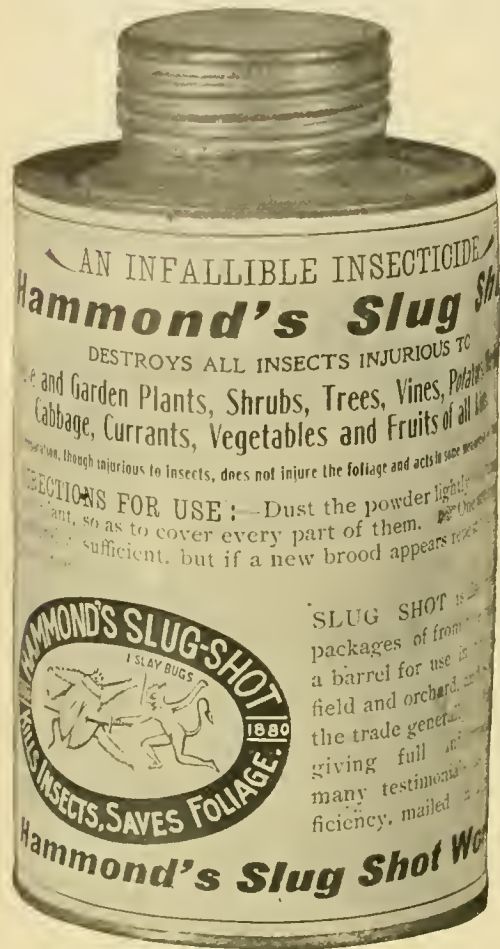
HOLTON & HUNKEL CO.

Wholesale Florists Florists' Supplies Manufacturers of Wire designs. 457 Milwaukee Street, MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103. Mention the Florists' Exchange when writing.

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Wholesale Florist 1402 Pine Street, ST. LOUIS, MO. Mention the Florists' Exchange when writing.

Hammond's Slug Shot for House Plants



This picture shows the tin, perforated, screw-top Canister filled with **Slug Shot** for use on plants in pots or in the garden; it is easily filled, when empty, from larger packages; it can be mailed at rate of one cent an ounce postage. It is sold by many seedsmen, and is an article which Retail Florists may find of service to customers. **Slug Shot** is put up in these tin canisters, perforated-top paper cartons, 5 and 10 lb. bags, 125 lb. kegs, 250 lb. barrels, and loose for garden or greenhouse use. Send for pamphlet on "Bugs and Blights." Our goods are sold by Seed Dealers the country over, and so continuously advertised to the general public. For mildew and blight: "Grape Dust," "Solution of Copper," and "True Blue Bordeaux Mixture." For "San Jose Scale": "Horium" Concentrated Lime, Sulphate and Salt. "Thrip Juice" for all scale. Twemlow's Old English Liquid Putty, and "Greenhouse White Paint." **GOOD STUFF, THESE.**

HAMMOND'S SLUG SHOT WORKS, Paints, Oil and Chemicals, Fishkill-on-Hudson, N.Y.
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GLASS

For GREENHOUSES, GRAPERIES, HOTBEDS, CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.

N. COWEN'S SON, 392-94 W. Broadway, New York
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CASPER LIMBACH GREENHOUSE GLASS

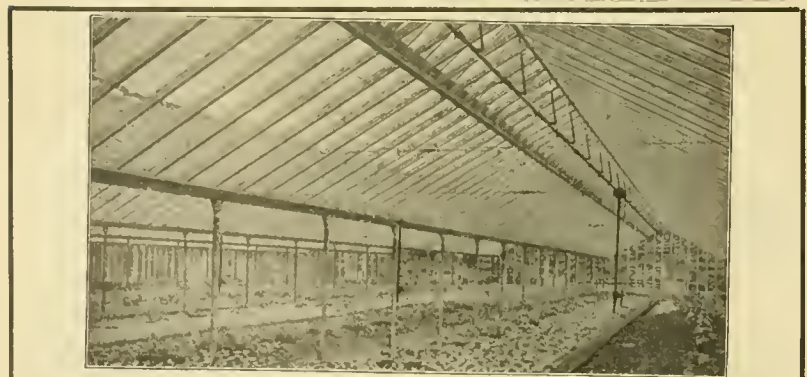
A SPECIALTY
Window Glass. Painters' Supplies.

0 Washington Ave., 31st Ward, Pittsburgh, Pa.
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THE WHILLDIN POTTERY COMPANY

Traveling Representatives: PHILADELPHIA, PA., JERSEY CITY, N. J.
U. CUTLER RYERSON, 108 Third Ave., Newark, N. J. LONG ISLAND CITY, N. Y.
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Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the Best that Can be Produced.
Catalogue, plans and estimates free on request.

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SUMMER IN WINTER

BY USING
Standard Greenhouse Boilers
One cent gets our Catalogue
GIBLIN & CO., Utica, N. Y.

HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.
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Evans Improved Challenge
Roller bearing, self-acting device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.
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The well-known Greenhouse builder at Orange, N. J. Before giving out your contract get figures from me. I can save you money. Iron or wood construction Hot Bed Sash.
TELEPHONE. 662L-Orange.
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CEMENT BENCHES

NIAGARA CEMENT & CONCRETE CO.
NORTH TONAWANDA, N. Y.
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Holds Glass Firmly
See the Point **PEERLESS**
FULL SIZE No. 2
Glassing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?

It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres will sustain a weight of one hundred Pounds.

Per doz
No. 1 will fit from 2 to 5-inch pots 30c
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By mail 10c. extra per doz. Sample pair 10c. postpaid. See last week's issue for advertisement of Florists' Letters, etc.

W. C. KRICK, 1164-66 Ave. C, Brooklyn, N. Y.
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Pulverized. Free from all Adulteration
In Bags, \$18.00 per Ton
Special price on car load lots in bulk
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IF THE HOUSE GETS COLD
Keeps tab on the Night Man.
Electrical Thermostat Alarm
Send \$2.25 for sample. With batteries and bell, \$3.50.
M. O. SOUTHWORTH, Indianapolis, Ind.
No. 24 The Meridian
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Best kind, best of its kind for all hand work, is the
Success Knapsack Sprayer
Knapsack and Bucket Sprayer Combined.
Brass pump with bronze ball valves, 5 gal. copper tank, mechanical agitator; pump working with either hand. Arranged for easy carrying and handling.
WE MAKE 20 STYLES SPRAYERS.
Hand, Bucket, Knapsack, Barrel, Field, Power. We meet all wants. Send for free catalog.
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THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
WIDELY IMITATED BUT NEVER EQUALED
UNIFORM AND ALWAYS EFFECTIVE
DON'T ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
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Now is the Time

TO SEND FOR OUR ESTIMATES and decide on your contemplated building work. An early order is early delivered, and early deliveries afford you much more time for painting and careful erecting. If you wait until later, there will be "others" who have waited too long, and everyone then wants their work "at once."

Our New Construction Sheet Mailed on Application. Plans and Estimates Freely Furnished on Request.

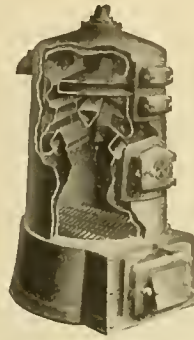
RED CEDAR POSTS IRON FITTINGS HOT BED SASH

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LOCKLAND, O.

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Buy "BURNHAM" Boilers



Send to-day to our New York Office

For our Catalogue Illustrating

ROUND "BURNHAM" BOILERS

and large sectional boilers. The former are adapted for Greenhouses of moderate size. **Cast in one piece above base.** No joints to leak. Work Economically, Easily, Efficiently. Save money by buying them.

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GEO. M. GARLAND

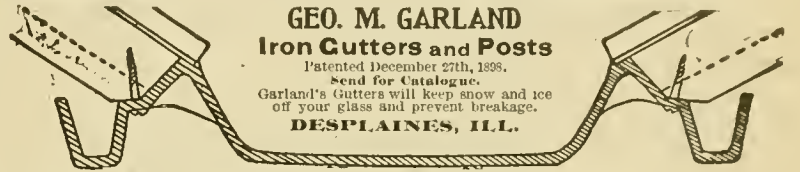
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Patented December 27th, 1898.

Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

LET ME ESTIMATE ON YOUR HEATING

Before signing your heating contract get my figures using the well-known Furman Sectional Boiler. Plans and Estimates furnished.

Competent Greenhouse Mechanics to install your heating or repair work. Fittings, Valves, Tanks, Ventilating Apparatus, Iron Purifiers, etc., etc.

WM. H. LUTTON, Heating Engineer, West Side Avenue Station, Jersey City, N. J. Telephone 174 J. Bergen.

EUREKA GREENHOUSES

Send for catalogue
Get the best

Greenhouse Material, Composition Posts

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The TORRIDOOR BLUE FLAME COMBUSTION REGULATOR will do it. Can be attached to any boiler or heater at any time. Far excels all other devices in saving fuel and maintaining all night even temperatures. Prevents escape of gases. Has completely effective adjustability for quickly starting and shutting off fires without banking. Has all the advantages of competitors and none of their serious defects. Endorsed by the best experts in the trade.

A HUNDRED PER CENT. INVESTMENT.

If you buy a boiler and it is not a TORRIDOOR, insist that the maker furnish you a TORRIDOOR REGULATOR. It will cost him little and save you much. Send for valuable "Hints on Heating" to

THE WILLOWMEAD CO., East Orange, N. J.

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"A \$ saved is a \$ earned"
You may save more than One dollar
if you buy your

GREENHOUSE MATERIAL

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FOLEY MANUFACTURING CO.
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Woodwork, Hot-bed sash, Tennessee Red Cedar posts,
Ventilating Apparatus, hardware specialties
Galvanized screw eyes, screw hooks, turnbuckles & wire
FREE ILLUSTRATED CATALOGUE !!!

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Absolutely safe and reliable. Ask your friends



The Frost Proofing of Tanks

IS AN ART OF ITSELF.

WE HAVE BROUGHT IT TO ITS PRESENT PERFECTION.

THE W. E. CALDWELL CO.
LOUISVILLE, KY.

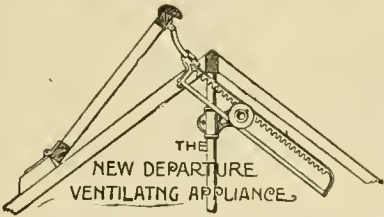
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IMPROVED
Greenhouse Boiler
33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.
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MEN TO SUPERINTEND
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CYPRESS SASH BARS
ANY LENGTH UP TO 32 FT. OR LONGER.
THE A. T. STEARNS LUMBER CO.,
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COSTS LESS and does better work. Send for Descriptive Price List

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GREENHOUSE MATERIAL
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New Roof Construction, Automatic Stokers, Water Tube Steam Boilers, Automatic and Hand Ventilators. North Tonawanda, N. Y. 32 Church St., Toronto, Can.

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The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its working. Catalogue free. E. HIPPARD, Youngstown, O.

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ASPARAGUS DECUMBENS, 3 in. pots, 76c per doz., \$5.00 per 100. ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100; \$15.00 per 1000; 500 at 1000 rate. ASPARAGUS SPRENGERI, strong, 3 in., 76c per doz.; \$5.00 per 100. CARNATIONS, Rooted cuttings. Write for prices and varieties. CLEMATIS PANICULATA, 4 in., \$1.50 per doz.; \$10.00 per 100. EUONYMUS, golden leaved, 2-year-old plants, \$1.50 per doz.; \$10.00 per 100.

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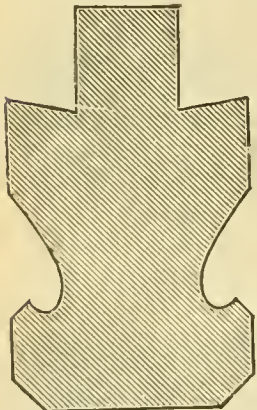
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PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

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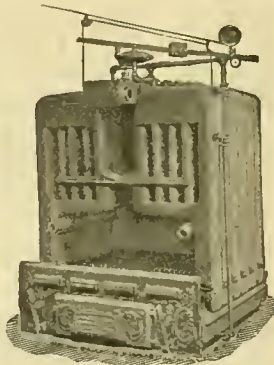
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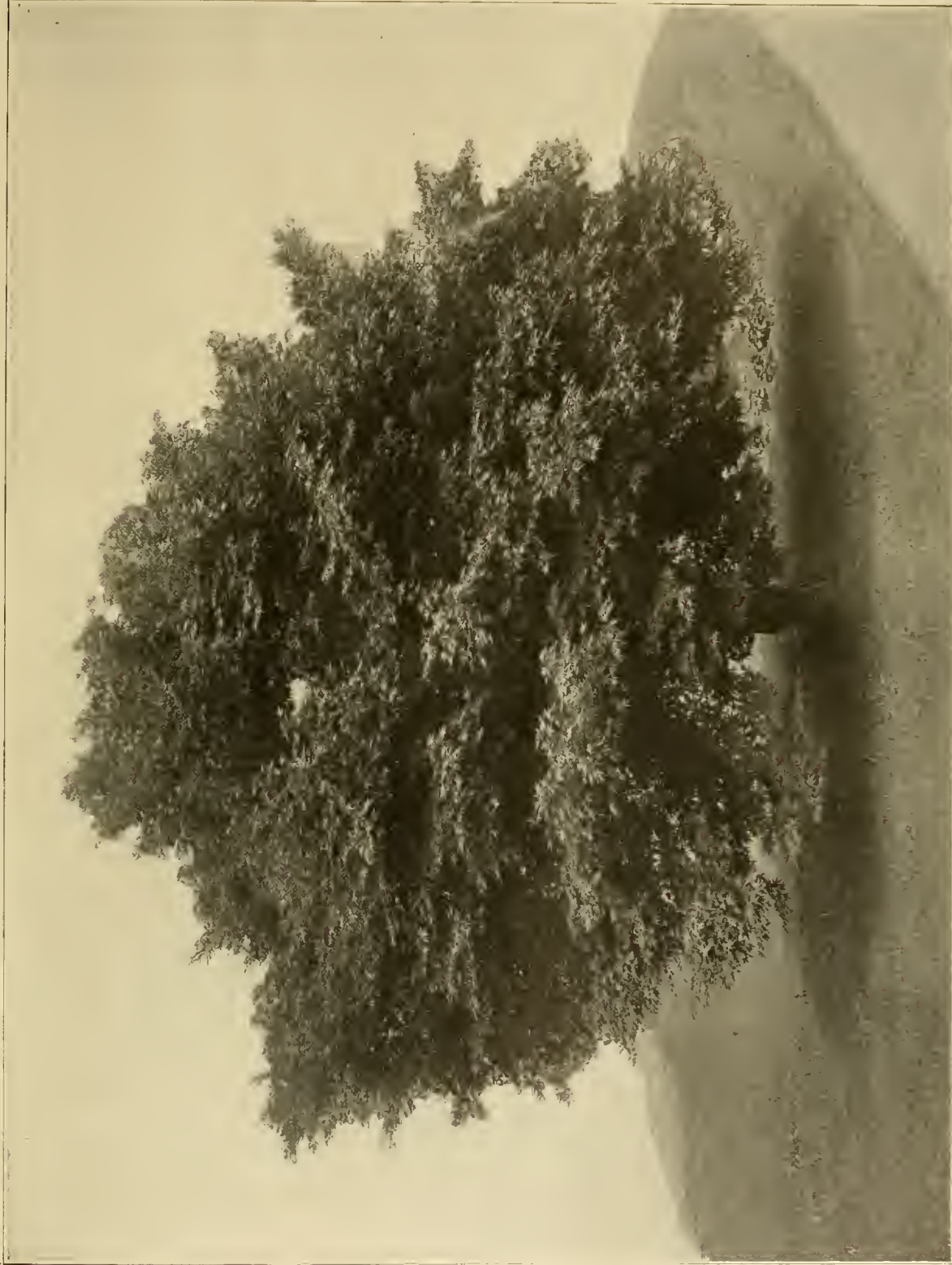
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Plate 92

ACER POLYMORPHUM—COMMON JAPANESE MAPLE

The parent of many of the lovely forms of Japanese Maples. The foliage, handsomely divided, is attractive all Summer long, and when the last weeks of Autumn come it is of more gorgeous color than any of the others have shown all the season through.

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

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

Vol. XIX. No. 5

NEW YORK, FEBRUARY 4, 1905

One Dollar Per Year

TARRYTOWN FERN

(*Nephrolepis Piersoni elegantissima*)

NOW READY FOR DELIVERY. THE BEST RECORD OF ANY NEW INTRODUCTION
The much coveted \$50 Prize from the Horticultural Society of New York.
FOR THE BEST NEW PLANT OF THE YEAR

There is nothing in the fern line that is as handsome as this beautiful fern when well grown. It is a wonderful improvement over *Nephrolepis Piersoni* in every respect, both in regard to beauty and habit of growth. It is a sport from the Pierson Fern (*Nephrolepis Piersoni*), but it is very much more beautiful and of greater commercial value. It is as different from the Pierson Fern as that is from the Boston. The small side pinnae are again subdivided, producing an exquisite and beautiful effect, changing the entire character of the fronds, which measure less than half the length and about twice the breadth of the fronds of the Pierson Fern. The fronds also assume an entirely different form, the side pinnae standing at right angles to the mid-rib of the frond, on edge rather than flat, as is usual, making both sides of the frond equally beautiful—entirely different from any other fern.

The plant is very dwarf, only about half the height of the Pierson Fern, and of very much more compact habit. Taking it altogether, it makes one of the most exquisite plants and one of the most valuable for table and house decoration that has ever been introduced. The cut fronds, on account of their beauty, will be in great demand for table decoration, design work, and for use in boxes of loose flowers. Well-grown plants make most magnificent specimens. We think there is nothing in the fern line that is as handsome as this beautiful fern when well grown. It is a wonderful improvement over *Nephrolepis Piersoni*, in every respect, both in regard to beauty and habit of growth.

PRICES:—2¼-inch pots, \$9.00 per doz.; 50 plants at 60c. each, 100 at 50c. each, 600 at 45c. each, 1000 at 40c. each. LARGE PLANT—5-inch pots, \$18.00 per dozen; 8-inch pots, \$24.00 per dozen; 8-inch pots, \$6.00 per dozen; 10-inch pots, \$9.00 per dozen.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

**GOLD MEDAL
WORLD'S FAIR
SHAW GOLD MEDAL
Louisiana Purchase Exposition.**
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And Numerous Diplomas and Certificates of Merit

There is nothing in the fern line that is as handsome as this beautiful fern when well grown. It is a wonderful improvement over *Nephrolepis Piersoni*, in every respect, both in regard to beauty and habit of growth.

BULBS For Spring Planting and Summer Flowering

BUY FROM HEADQUARTERS

		Per 100	1000			Per 100	1000				
GLADIOLUS—Selected Bulbs.				DAHLIAS, Large Field Clumpa							
American Hybrids, mixed.....	\$1 00	\$8 50	Named kinds, Separate. Our selection. Ask for list of named sorts.			\$5 50	\$50 00				
Very fine mixed.....	90	7 50	Double Mixed, all colors.....	3 00	25 00						
Second size mixed.....	65	5 00									
White and Light, best to be had..	1 50	13 00									
GLADIOLUS—Florists'				TUBEROSES.							
Forcing Sorts.				Excelsior Double Pearl, Doz.							
Angusta, 1st size.....	3 00	25 00	Mammoth bulbs, 5 to 8 in..	\$0 30	2 00	15 00					
" " pure white, selected..	4 00	30 00	4 to 8 in, ground.....	20	1 00	7 50					
May, Daybreak color.....	1 50	12 00	1st size, 3 to 4 in.....	15	60	4 00					
Shakespeare, white and rose....	4 50	40 00									
BEGONIAS—Tuberous-rooted.				LILIUM.							
Single, bulbs 1¼ in. and up, separate colors, white, red, pink, yellow and orange.....	2 00	18 00	Auratum, 6 to 8 in.....	75	4 25	38					
Double, large bulbs, 1¼ in. and upward.....	3 50	30 00	" " " " " " " " " " " " " "	9 to 11 in.....	1 25	7 50	67 00				
Separate colors, or mixed.....	3 50	30 00	Speciosum Rubrum,								
CALADIUMS—(Elephant's Ear).				8 to 9 in.....				1 00	8 00		
Bulbs, 6 to 8 in. in circumference..	1 50	12 50	9 to 11 in.....	1 50	7 50	70 00					
" " 8 " 10 " " " "	3 00	26 00	Speciosum Album,								
" " 10 " 12 " " " "	5 00	45 00	8 to 9 in.....	1 25	7 00	00 00					
" " 12 in. and over \$1.50 per doz.	10 00		9 to 11 in.....	2 00	12 00						
Fancy-Leaved, named sorts, large bulbs, \$1.25 per doz.....	7 50	60 00									
Mixed sorts, large bulbs, 50c. per doz.....	6 00	55 00	MONTBRETIA,								
GLOXINIAS—Choice Stock.				Named sorts.....				1 50	12 00		
Named varieties, very large bulbs; separate colors: white, purple, red, blue, spotted and tigered, or all colors mixed, 50c. per doz....				3 50	30 00	OXALIS, in variety.....				25	1 75
CINNAMON VINES.				Largest size tubers.....				2 50	20 00		
First " " " " " " " " " " " "				2 00	15 00	TIGERDIAS, mixed.....				2 00	15 00

CANNAS Large dormant pieces, with two to three eyes. For varieties and prices see our ad. elsewhere in this paper.



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CUT STRINGS OF

Asparagus Plumosus Nanus

First-Class Stock, Running Even and Full, 50 cts. each

Asparagus Plumosus Nanus Seeds

These are the true variety, 75 cts. per 100; \$6.00 per 1000

Now is the time to buy

KAISERIN and CARNOT

for early Summer flowering

2¼-inch pots, \$4.00 per 100; \$35.00 per 1000

BRIDE and BRIDESMAID

2¼-inch pots, \$4 00 per 100; \$35.00 per 1000

W. H. ELLIOTT, Brighton, Mass.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

3,000 ETHEL WARD	\$7.00 per 100	2,000 PROSPERITY	\$2.00 per 100
2,000 THE PRESIDENT	\$60 per 1000	3,000 MACKINAC	\$15.00 per 1000
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5,000 ENCHANTRESS	\$4.00 per 100	2,000 LADY BOUNTIFUL	\$6.00
2,000 CHRISTMAS EVE	\$30 per 1000	3,000 JUDGE HINSDALE	Per 100
2,000 GOLDEN EAGLE	\$5.00 per 100	2,000 MRS. PATTEN	\$50.00
1,000 HARRY FENN	\$3.00 per 100	2,000 NELSON FISHER	Per 1000
5,000 LAWSON	\$25.00 per 1000	2,000 OCTOON	
		2,000 FLAMINGO	

50 of a kind at 100 rate; 250 of a kind at 1000 rate

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C. W. WARD, Manager

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He Failed to See His Shadow— The Rest You Know?

- Asters Branching colors, Tr. pkt 25c., oz. 50c.
Cobaea Scandens " " 15c., " 30c.
Smilax " " 10c., " 35c.
Salvia Splendens " " 25c., " \$1.25
Bonfire (Clara Bedman) " " 25c., " 2.50
Sweet Peas Leading sorts for forcing, 20c. to 50c. oz.

Lily of the Valley Cold storage, Hamburg \$10.00 per 1000, Berlin \$11.50 per 1000.

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Cocos Weddeliana Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000

Asparagus Plumosus Nanus Seed \$1.00 per 100; \$7.00 per 1000; \$30.00 per 5000.

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Table with 3 columns: Seed Name, Per 100, Per 1000. Includes Plumosus Nanus, Robustus, Sprengerl.

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Giant of California. 25

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Dwarf Inimitable aurum, Golden Feather. 25

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SALVIA splendens, "Drooping Spikes," 1/2 oz., 50c. 25 2.00

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Snowflake, for forcing, white. 50

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Mammoth, mixed, extra choice. 15 75

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LARGEST AND FINEST STOCK IN SPLENDID CONDITION

Per case of 3000 for - - - \$24.00 Two or more cases at \$7.50 per 1000

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Tested Seeds of the Highest Quality

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Pyrethrum Aurum.	.10		.25
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	Trade	pkt.	Oz.
Stock, Dwarf, Separate Colors.	\$0.25		\$2.00
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Madeira Vine	\$6.00	\$50.00
Spotted Callia	1.00	8.00
Tritoma Pfizeri	3.00	25.00
Gindiol, mixed, 1 1/4 in. diam.	7.00	60.00
	.60	5.00

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Eight per cent. discount for cash. Special price on large quantities.

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19-24 in.	Per 1000	\$15.00
2-3 ft.		20.00
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HYDRANGEA, P. G., 2 1/2 ft.		9.00
" " 3 1/2 ft., XX		11.00
WEIGELIAS, 5-6 ft.		25.10
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Simple's Shell-pink and White
These are the most beautiful Asters grown.
1-4 oz. 60c; 1-2 oz \$1.00; oz. \$1.50
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THE HARDY ANNUAL OF THE CENTURY

Nicotiana Sanderæ.

Silver Medal Massachusetts Horticultural Society, 1904.
Gold Medals and First-Class Certificates awarded at principal European exhibitions.
Thousands of glowing carmine blossoms produced on a single bush.
Seeds in original packets from seedmen throughout the United States, at 25c. per packet.
Wholesale Agents for the United States:
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FRIENDS get something New for Easter

Pot-grown **WISTARIA Sinensis** make a magnificent show—each plant bears 20-30 long racemes of flowers.

Pure White	Each 12	\$1.25	\$14.00
Blue		1.10	12.00

The only new sweet-scented Herbaceous Peonia in the world. **Forces for Easter.**
3-5 eyes, double white, double rose, double ear-mine

	\$0.30	\$3.00
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New Fern Designs

Soldiers on horseback with drawn sword.	Each 12	\$2.00
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Two Log cabins, Flying Birds.		
Monkeys, Pigeons, Frogs, Full Rigged Ships, Chinese Pagodes.		
Turtles	.75	\$8.00
Fern balls, 5 inch.	Per 100,	\$15.00
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MICHELL'S CARNATION BANDS JUST WHAT YOU NEED



Bursting Carnation—Worthless without our Band. See other cut.

Every Carnation grower, large or small, will appreciate the value of this little band. You may be an expert grower, but there are bound to be some bursted blooms which you can save by using this band. They are cheap, durable, and will save you money. **TRY THEM.** Keep a supply on hand, used by all the leading growers in the UNITED STATES.

REGULAR SIZE BANDS

Made of the best quality rubber. Suitable for the ordinary size carnations.

1 000 bands	\$0.15
2 000 "	.25
4 500 "	.50
7 000 "	.75
10,000 "	1.00

The above mailed postpaid on receipt of price.

SPECIAL SIZE

These are suitable for the larger varieties of carnations; made of the best quality rubber.

Per ounce	\$0.25
Per 1/4 lb.	.75
Per lb.	2.75

Add at the rate of 16 cts. per lb. for postage on special size bands.



Bursting Carnation (made perfect) fitted with Michell's Carnation Band.

SPECIAL NOTICE—Have you a copy of our New Wholesale List of NEW CROP FLOWER SEEDS, BULBS, FLORISTS' SUPPLIES, etc., if not write us. Mailed free to all florists.

HENRY F. MICHELL CO., Seed Growers and Importers, 1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

DON'T FORGET

To get our prices before ordering your Bulb stock for next season.
TUBEROUS BEGONIAS In colors. Write for prices.
HUBERT & CO.
N. LE PAGE, Rep., Mt. Vernon, N. Y.
Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANTS

SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
342 West 14th St., New York,

Asparagus Plumosus Nanus Seed

Greenhouse grown, \$4.50 per 1000.
SAMUEL S. PENNOCK, The Wholesale Florist of Philadelphia
Mention the Florists' Exchange when writing.

CANNAS

Dormant Roots (Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italla, Austria, Queen Charlotte, Paul Marquant, Flamingo, Shenandoah (dark foliage), Fair Persian, Morning Star, Ft. Washington) \$15.00 per 1000; \$2.00 per 100. Mixed All Colors \$10.00 per 1000; \$1.50 per 100.
CLUCAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK
Mention the Florists' Exchange when writing.

CRIMSON RAMBLER

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**
Mention the Florists' Exchange when writing.

15950—No. 1, own roots..... \$12.00 per 10
24625—No. 2, " " 8.00 "
Northern-grown, for delivery December 20.

NEW CROP FLOWER SEEDS

Asparagus Plumosus Nanus, 100 seeds, 60 cts.; 1000 seeds, \$6.00.
Begonia, Vernon and Bonfire, trade pkt., 25 cts.
Cyclamen Giganteum, 100 seeds, 60 cts.; 1000 seeds, \$6.00.
Petunia Fimbriata Grandiflora, trade pkt., 60 cts.; " double " \$1.00
Salyia, Bonfire, trade pkt., 25 cts.; oz., \$2.25.
" Splendens, trade pkt., 20 cts.; oz., 60 cts.
Stocks, Dwarf Ten Weeks, trade pkt., 25 cts.; oz., \$2.75.
Verbena, Mammoth, trade pkt., 20 cts.; oz., \$1.00.
FRESH TOBACCO STEMS,
bale of 300 lbs., \$1.50.

W. C. BECKERT, Allegheny, Pa.
Mention the Florists' Exchange when writing.

SEEDS

Hollyhocks, in 10 best varieties, all double Delphiniums, in 12 varieties, including doubles and finest orchid-flowering. Planting Barbatus, auricula-flowering. Veronica Longifolia. Digitalis, in great variety. Lobelia Cardinalis, the beautiful cardinal flower. Lobelia Syphyllicia, blue. Write for trade prices. Single trade packet, 10c.

CHAS. LONG, 277 Jefferson Avenue, ROCHESTER, N. Y.

DAHLIAS

Mrs. Winters, the World's best white, strong tubers, \$10.00 per 100. Ingeborg Ege-land, best scarlet cactus, \$3.00 per doz., \$20.00 per 100.
Many other novelties and standard varieties.
Wilmore's Dahlias have long been celebrated for prize winning.
Also Double Field-grown **HOLLY-HOCKS**, true to color, \$3.00 per 100. Send for catalogue.

W. W. WILMORE
Dahlia Specialist, Box 382, DENVER, COL.
Mention the Florists' Exchange when writing.

SOW NOW

Rawson's Flower Market Stock
INCOMPARABLE IN QUALITY
White..... 1/4 oz. 75c., oz. \$6.00
Any other color, 1/4 oz. 80c., oz. \$4.00
W. W. RAWSON & CO.
Seedman,
12 Fenoull Hall Square,
BOSTON, MASS.
Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.
ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.
Mention the Florists' Exchange when writing.

SILVER RIBBON GRASS

The New Hardy Perennial
The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS
ROCHESTER, N. Y.
Mention the Florists' Exchange when writing.

W. & T. SMITH COMPANY
Geneva, N. Y.

Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vine Fruit Trees and Small Fruits.
WHOLESALE PRICE LIST SENT ON REQUEST
Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

CANARY SEED.—The Board of Appraisers at New York has ruled that canary seed is held not to be free of duty as grass seed under paragraph 656, tariff act of 1897.

WORCESTER, MASS.—Firms lately represented here were: The Braslan Seed Company, of San Jose, Cal., by Chas. P. Braslan; the Albert Dickinson Company, Chicago, by Mr. Heath; Comstock, Ferre & Co., Wethersfield, Conn., by S. F. Willard; the Cleveland Seed Company, Rochester, N. Y., by C. R. Millhaus. **CAROLUS.**

PARIS, ILL.—Fire of unknown origin totally destroyed the warehouse and office of the Levings Brothers' Seed Company at 812-814 West Madison street at an early hour on January 24. The owners, C. C. Clinton and J. N. Darnall, estimate their loss as being between \$6,000 and \$8,000 while they carried insurance to the amount of only \$2,500.

W. W. RAWSON & CO., Boston, Mass., recommend that growers purchase their seed as early as possible to insure obtaining the superior strains of many varieties which always go early in the season; this is of more importance than the florists realize. Crops with this firm have been generally very good, and the seed is of excellent germination. Orders seem to be coming in much larger and more plentiful than usual for this time of the year; everything points to an exceptionally good season.

WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

MONTGOMERY, ALA.—The State Board of Horticulture, at its recent meeting, adopted the following resolution, "That no cotton seed, seed cotton, hulls, seed cotton and cotton see sacks (which have been used), cotton pickers' sacks, corn in the shuck, unsacked corn, unsacked oats, unsacked wheat and unsacked cow peas shall any time be brought into the State of Alabama from the infested counties of Texas or parishes of Louisiana."

NEWPORT, R. I.—William B. Scott & Co. will add to their business a seed department which will be in charge of M. B. Faxon, seedsmen. Mr. Faxon for two years, has been with the Geo. A. Weaver Co. Mr. Scott, of the first named firm, was for twenty-five year manager of the Weaver Co.

With the seedmen things have improved quite a little as regards early orders. Wax beans are again very short, but outside of that it looks as if there would be enough seed to get around. **F. W.**

BOSTON.—Few, if any, of the Boston seed stores took advantage of the new ruling of the postoffice department regarding the mailing of their catalogues; the leading firms preferring the old system of affixing postage stamps.

The many friends of John Clark will still find him at Rawson's; he has neither gone to Newport nor New York nor has he any intention of locating in either of those cities.

Dutch bulb men have commenced their siege on the handlers of their goods in this city. Von Sion narcissus are reported to be in short supply and likely to rule higher in price.

Visitors this week have been W. J. Buurman, representing J. Schielpzan & Sons, and W. Taat, representing W. Van Waveren & Sons, all of Hillegon Holland. **J. W. D.**

Southern Seed Trade.

BIRMINGHAM, ALA.—This city is a marvel of progress and industry, and has no equal in our country for applied energy along the lines of business industry. The seed trade has kept pace with all others in the race for success. The Amzi-Godden Company have an enormous trade in garden and field seeds, and are jobbers as well as retailers. They are also manufacturer of high-grade fertilizers, which they distribute throughout the South and West. They report a fast growing trade, which is due to the energy put forth no less than to a complete knowledge of the goods they sell.

AUGUSTA, GA.—The Alexander Seed Company are sharp competitors along many lines, and are making themselves known by an aggressive policy. They are not satisfied in having trade come to them, but go for it with a determination to win. They report a good trade along all lines.

The N. L. Willett Drug Company—This firm, while not strictly seedsmen, are handling immense quantities of seeds grown in that State, as well as kinds sown there by the truckers and gardeners. They are growers, jobbers and retailers; in Georgia grow seeds they are leaders in the South.

LOUISVILLE, KY.—Wood, Stubbs & Co. have been a surprise to themselves and an astonishment to their friends, in the building up of a trade which is a credit to their State and an honor to themselves. While they are dealers in all seeds required for the farm and garden, they are growers as well of onion sets and second crop potatoes which are in great demand for seed purposes both North and South. The season has not fairly opened, but they regard the prospects as highly favorable.

The Southern Seed Company is an annex to a most extensive fertilizer company, and is uniting the two industries to the benefit of both. While general seedsmen, in a retail way, they do a large trade in second crop potatoes, onion sets and field and sweet corn. Louisville is the congenial home for onion sets; not only is a good crop produced, but of superior quality.

More than half-a-million copies of the BURPEE CATALOGUES FOR 1905 have been mailed already. Have YOU received one? If not, it will pay you to write TO-DAY! A postal card will do. Simply address

BURPEE'S SEEDS, Philadelphia, Pa.
and you will receive by return mail BURPEE'S FARM ANNUAL,—so long recognized as the "Leading American Seed Catalogue." It is a handsome book of 178 pages, with elegant colored plates, and tells the plain truth about all the

Best Seeds that Grow!
If you garden for profit or are a florist you should also have BURPEE'S "BLUE LIST," or WHOLESALE PRICE LIST FOR MARKET GARDENERS AND FLORISTS.

DREER'S SUMMER-FLOWERING BULBS



NEW FRILLED BEGONIA.

TUBEROUS-ROOTED BECONIAS

Single, scarlet, crimson, white, yellow, rose and orange, 40 cts. per doz.; \$3.00 per 100; \$25.00 per 1000.
Single Mixed Colors, 35 cts. per doz.; \$2.30 per 100; \$22.00 per 1000.
Double, scarlet, rose, white and yellow, 55 cts. per doz.; \$5.00 per 100; \$40.00 per 1000.
Double Mixed Colors, 50 cts. per doz.; \$4.00 per 100; \$35.00 per 1000.
New Frilled, a unique form, large flowers with wavy or frilled petals like a fringed Petunia, \$2.50 per doz.; \$20.00 per 100.

GLOXINIAS

An extra fine strain, strong well matured bulbs, red, white, blue, red bordered white, blue bordered white, or choicest mixed, 50 cts. per doz.; \$4.00 per 100; \$35.00 per 1000.

FANCY-LEAVED CALADIUMS

Choice named sorts, fine large bulbs..... \$1.25 per doz.; \$10.00 per 100.
Choice mixed sorts, fine large bulbs..... 1.00 " 8.00 "

CLADIOLUS

We have a splendid stock of the very finest named varieties as well as selected mixtures. See wholesale price list.

TUBEROSES

Double Pearl, selected bulbs..... \$1.00 per 100; \$7.50 per 1000.
Amaryllis, Caladiums, Dahlias, Lilliums, Montbretias, Tigridias, Zephyranthes, etc., etc.

All of the above are offered in our Wholesale Price List. Copies sent to Florists on application.

HENRY A. DREER, Philadelphia, Pa.
Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

W. F. Heikes, of Huntsville, Ala., has been re-elected president of the Alabama State Horticultural Society.

FLUSHING, N. Y.—The Bloodgood Nurseries have been incorporated, capital \$50,000. Directors: B. A. Keene, A. J. Amend, and Hamilton Anderson, New York.

PULASKI, TENN.—The Giles County Nursery Company, of Lynnville, has purchased something like 55 acres of ground, and will run a branch business here. It is thought that the headquarters of the company will shortly be removed to this point.

MONTGOMERY, ALA.—The State Board of Horticulture, at a meeting held Monday, January 23, adopted the following resolution: "All shipments of nursery stock received without proper tags attached shall not be delivered until the State horticulturist has given his permission to deliver the same. All tags used in the State of Alabama shall be printed under the direction of the State horticulturist."

Meehan's Golden Arbor Vitae.

What is known as Meehan's golden Arbor vitae is a golden-tipped variety, found in a bed of seedlings, many years ago. The extreme tips of the shoots are golden. On the whole, it is not as good a golden color as that of the George Peabody, another golden form of this Arbor vitae. But it differs in this, that whereas the George Peabody has the same upright habit of growth that the typical one has, the Meehan's golden is of a far more bushy character. It is much broader in proportion to its height than is the Peabody.

These golden forms are particularly beautiful at all seasons of the year. Reference has been made before to their beauty in early Summer, when the new growth is well advanced. Even now, in the depth of Winter, their golden yellow foliage is very pleasing; and were I asked, I would advise those who are contemplating the planting of evergreens the coming Spring, not to overlook the setting out of some golden Arbor vitae, golden yews, and other golden-tinted evergreens.

The propagation of these evergreens is by cuttings, made now, and placed in boxes of sand, in a warm greenhouse. After being in the cutting boxes a month or more, a little more heat can be given them, and they should be well rooted by Spring.

The Fruit of Magnolia Kobus.

In *Magnolia kobus*, a Japanese species now fairly well known in collections, there is not much, if any, gain over what kinds were common in collections before it. The foliage and habit of growth are different, but its white flowers are not as large as those of the old Chinese white, *M. conspicua*, and those acquainted with both would unhesitatingly choose the latter if limited to but one of the two, as both flower at the same time, practically. But in the way of fruit pods, which are produced in great abundance by *M. Kobus*, there is something of uncommon interest, as, in addition to their carmine color, one peculiar to the seed pods of all when ripe, the pods themselves are of the most grotesque shapes imaginable, although nearly all of them are of the forms of newly hatched birds. It is such an interesting sight that visitors are always attracted by it, and for this alone this magnolia is worth room on one's grounds; and, of course, when a collection of magnolias is wanted, this one will have to be included in it.

Some who grow this magnolia say it is apt to die back partly at times, and instances of this have been noted. This occurs to other Japanese trees and shrubs, but it never seems to hurt them to their destruction.

Further Notes on Mahonia Aquifolia.

My notes on *Mahonia aquifolia*, which appeared in *The Florists' Exchange* a short time ago, have attracted much attention. In addition to what other correspondents have said, J. Hetherington, Portland, Ore., now writes:

"You are doubtless aware that large quantities of *Mahonia aquifolia* grow wild in these parts. If there is anything you should wish to know as to its habits, etc., in western Oregon, I should be pleased to inform you. It is a beautiful thing at this time of the year, and is almost universally used at Christmas for decorative purposes. Do you consider it would stand the climate of the East?"

As I have before said, this evergreen shrub does very well here, and is much valued; and it is worth all the good words these correspondents have to say for it. When in a sheltered place its bronze-colored leaves of Winter remain uninjured all through our Winters, but when exposed to much sun and wind the leaves become brown and disfigured. But the wood is seldom injured, no matter how low the thermometer registers. In many of our public grounds and our private places large numbers of it are used, often in masses; and when in flower, in early Spring, the show of yellow is greatly admired.

As already mentioned by correspondents and by myself, *Mahonia aquifolia* is very useful for Christmas work by florists; and this suggests the making a note of those who can furnish it, for reference when the proper time comes. And it should serve, too, to remind those who can sell the sprays, to advertise the fact when next Winter approaches. Many florists would be glad to get hold of a lot of it then.

Southern Oaks in England.

One of our nurserymen recently received an order for a collection of oaks for England, coupled with the request that Southern sorts were not to be included, it being feared they would not live outdoors there. The fact is that probably every one of the strictly Southern oaks would live there, for all but two or three of them get through the Winter at Philadelphia. There come to mind only these that are not hardy in that city: *Virens*, *laurifolia*, *Catesbæi* and *cinerea*. Others which, if not strictly Southern or more so than they are Northern, and which do well throughout the Middle States, are: *Lyrata*, *aquatica*, *Phellos*, and *falcata*. The *Phellos* and *falcata* approach North to Philadelphia, both growing within the city limits, and both ending there, so far as I know. Two or three *falcata* exist in a wild state within the boundary of Fairmount Park.

Coming back to the request of the party for such oaks only as would grow in England, there would be little risk in sending every kind indigenous to our country. The greater number of species of oaks we have grow both North and South. The white, pin, scarlet, red, black, mossy cup, chestnut, post black jack, and others are, some of them, to be found almost from the limit of both North and South, while others are in the border States. There is one thing connected with this subject which must not be forgotten, namely, that although a certain tree may grow from far North to far South, the seedlings from the Southern trees will not be hardy in the North. It is meant, of course, those from far South. There seems no question that a tree in time fits itself to its surroundings. Hardly in a perceptible way, perhaps, in one's lifetime, but everything points the way to believing that it does occur. Oaks, hickories, and other trees which are found in our Northern woods grow, many of them, in Southern woods as well, but it is of no use sowing seeds of the latter in the North; the seedlings will not prove hardy, having in mind those from far South.

A Chapter on Nyssas.

There seems less appreciation of the merits of the sour gums than there should be. A more beautiful tree than a young, thrifty specimen of the one native of the North, *Nyssa multiflora*, could not be found. It is clothed all Summer long with its lustrous green leaves, and these leaves become of a rich scarlet color in Autumn, perhaps a richer scarlet than the foliage of any other native tree assumes. Besides this, there is its crop of berries, black when ripe, and not unattractive, and affording a treat for birds.

One reason why the tree is not oftener seen in collections may be assumed to be the difficulty of transplanting it. It is, without doubt, one of the hardest of trees to handle in this respect. But to overcome this planters know what to do. Transplant often, and prune back hard. The whole class of trees difficult to handle can be moved successfully in this way. There must be several transplantings before the trees are six feet high; and it should be started when the seedlings are two years old.

For horticultural purposes there is but the one species of sour gum in the North, the *multiflora*. Getting South, the *Nyssa aquatica* takes the place of the Northern one, and in appearance and in its seeds it differs but little from *multiflora*. Experts can tell the seeds apart; those of the Northern one being less flattened than those of the Southern species.

Besides these two, there are two others in the South, *Nyssa capitata* and *Nyssa uniflora*; and in foliage and fruit these differ very much from the others. The leaves are large, and the fruit of both is as large as a small plum; that of *N. uniflora* particularly looks like it. Both of these are swamp-loving trees; and for the matter of that, our Northern one, already mentioned, delights in low ground.

The way to propagate these sour gums is to procure the seeds in Autumn, clean them of pulp and sow them outdoors at once. Failing this, preserve them over Winter in damp soil, sowing them early in Spring. There is a weeping form of the Northern *N. multiflora*, which is increased by budding.

JOSEPH MEEHAN.

Society for Horticultural Science.

(Continued from page 39.)

Co-ordinated Variety Tests.

The importance of co-ordinated variety tests, a subject that received the serious attention of the society at the St. Louis meeting, was again brought up in the two papers of Professor L. C. Corbett and Professor W. W. Tracy, both of the Department of Agriculture. The first named described a system of variety record blanks, which had been devised and had been in use for two years, and the further use of which he felt would tend to properly classify garden varieties in vegetables, and make the introduction of spurious novelties less likely to occur. The great need at present was to arrive at a definite understanding of what really constituted a horticultural variety, as the general trade descriptions, in many cases, dealt with generalities and, in some cases, could actually be reversed. The descriptions of two tomatoes, Stone and Success, were cited. It is evident that neither seed growers nor the producers of exhibition plants have any fixed notion regarding varieties. This shows the necessity of carefully executed descriptive records. It was stated that the stocks used for these co-ordinated variety tests should have a common origin and be grown under the same environment long enough to have been properly fixed.

Professor Tracy, in his paper, emphasized the necessity of having a distinct varietal type to adhere to in seed growing. He told of many confusing cases as one in which there were two types of melon in the introduction of a new variety; one grower had selected his stock to the green type, another to the white rind type. The importance of minute distinctions from the practical standpoint was great as in lettuce, where a difference in texture of leaf meant a better forcing variety, but grown outside there was no difference discernible. There were three distinct types of Refugee wax bean in the American seed trade today. The same thing was true in other vegetables. This instability of type has led to substitution being looked upon lightly in the seed trade. Horticulturists should demand from the introducer of a new variety a distinct and accurate description of what he considers the type to which it should be grown, and this should be rigidly adhered to in the growing of seed to be sold under that name.

A committee of the society was appointed to make an investigation of this whole subject, to report at the next meeting of the society, the two presenters of the papers being named with power to add to their number.

Electric Light in Plant Growing.

Professor C. P. Close detailed recent experiments in the growing of plants in the new Cooper-Iffewett mercury-vapor electric light, which had been made at the Delaware station. The 4-H patten lamps were used. The rays have no red in them and looked at through a red glass no light can be seen. The candle-power of each lamp is about 650, and the expense per candle is about one-eighth that of the candle-power of the incandescent light and about three-fourths that of the arc light. Grand Rapids and Boston Market lettuces were used in the experiment; seed sown December 14. These were put into a chamber from which daylight was excluded, after they had made four to six leaves, all of which were removed. Plants from a sowing on January 25 were also put in at the same time. These had four small leaves and they were left on. The cultural conditions were not of the best as regards ventilation and heat during the growing or lighted part of the 24 hours; it was at night that the light was on. Of the first setting all were lost by disease except a dozen immediately beneath the light. Radishes were also grown. From a commercial view the experiment was not a success. Chlorophyll was formed, but the plants made a very spindly growth. The object in view was the utilization of basement barns, and under more favorable circumstances the results must be better.

In the course of a discussion it was the feeling that the light might be used as a supplement to natural daylight in forcing salad plants during the "dark days" of Midwinter.

Value of an Orchard Survey.

Prof. John Craig, Cornell, discussed the value of an orchard survey, the purpose being to ascertain the causes underlying failure or success, aside from the personal question involved. In other words, to ascertain the underlying fundamental principles of orchard management by an actual analysis of practical conditions. The conclusions often arrived at by the investigator did not carry the weight they deserved, very often because the volume of facts dealt with was too small to make an impression on the practical grower. He felt that if these facts could be gathered from the field and orchard on a larger scale—take an entire county, for instance, and map its orchards—they would have a much better reception from the practical man.

L. BARRON.

(To be continued.)

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	CRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories

NATICK, MASS.

JOHN N. MAY, Summit, N. J.

ROOTED CARNATION CUTTINGS

Nice clean stock of Enchantress, Nelson Fisher, M. A. Patten, Boston Market, Gov. Wolcott, White Cloud and Mrs. F. Joost. Prices on application.

C. G. VELIE & SON, Marlborough, N. Y. Mention the Florists' Exchange when writing.

WHITE LAWSON Carnation

Rooted Cuttings, \$5.00 per 100. Mrs. Patten, \$5.00 per 100. H. F. LITTLEFIELD, Worcester, Mass. Mention the Florists' Exchange when writing.

New Carnation CRISIS

THE FINEST SCARLET. LARGE FLOWER. LONG STEM. NEVER FADES. NEVER BURSTS. PERFECTLY HEALTHY. THE BEST SHIPPER. BRINGS THE HIGHEST PRICE. THOROUGHLY TRIED. A MONEY MAKER.

PRICE: \$12.00 per 100; \$100.00 per 1000. SEND FOR CIRCULAR.

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

THE BRIDE

A free bloomer and a good keeper, is the most profitable Carnation we are growing.

Price \$6.00 per 100; \$50.00 per 1000.

PHYLLIS

The new light Pink Carnation of the Daybreak type.

Price \$12.00 for 100; \$100.00 for 1000

Also all the Newest and Best Carnations at Advertised Rates.

JOHN N. MAY, Summit, N. J. Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

White	100	1000	Variegated.	100	1000
May Naylor.....	\$2.50	\$20.00	Prosperity.....	\$2.50	\$20.00
Queen.....	2.50	20.00	Judge Hinsdale.	4.00	
Queen Louise...	2.00	15.00	Pink		
Gov. Wolcott....	2.00	15.00	Enchantress....	\$3.50	\$30.00
Boston Market..	2.00	15.00	Lawson.....	2.00	15.00
Variegated			Fair Maid.....	2.00	15.00
Mrs. Patten.....			Ethel Ward.....	4.00	
			Nelson Fisher..	6.00	

Mention the Florists' Exchange when writing.



The plants from now on can receive more liberal treatment in the way of feeding and watering, as the days are getting longer, and the plants show an increased growth. A mulch of but partly decomposed cow manure is the proper material to use; but if this is not available, green manure mixed with some good soil will answer. Put it on the benches on a clear day so that a fair amount of air can be left on the houses for some time, and water thoroughly. Green manure contains a large amount of ammonia, and unless used as stated is liable to ruin the plants by burning the foliage, an instance of this kind being noted where the plants were entirely stripped of their foliage.

Examine the beds carefully each day, for after a mulch has been applied the surface of the benches often appears sufficiently moist, while the soil in the bottom, especially where the heating pipes are near the benches, will be as dry as powder. Such a condition results after syringing, or a few cloudy days, and causes the wood to become hard; the eyes break slowly and the plants are apt to lose a large number of their leaves. Needless to say, the buds also come malformed and have no substance.

Watch carefully for red spider, especially in corners not easy to get at it, and remember it is not the quantity of water used that will dislodge the pest, but the manner in which the water is applied.

A great deal of our attention from now on will be devoted to young plants. Cuttings put in the sand the second week in January will soon be ready to pot. It is a good plan to screen the soil, and have it in the potting shed some time beforehand. The pots should be nice and clean; for, if covered with green scum, they soon sour the soil placed in them and the young plants have to suffer; 2 1/2-inch pots are mostly used for the first potting. Have the soil in a fairly moist condition, so as to pack nicely. Before taking the cuttings from the propagating bed, give the sand a good soaking, and then take only a few cuttings at a time, for the roots should not be exposed to the air any longer than necessary. Pot firmly, being careful not to break the little rootlets, which at this time are very brittle. It is best to water every flatful, as they are put on the bench; this should be done thoroughly so that the soil is all wet. Shade will have to be provided for a few days until the roots start or take hold of the soil. Meanwhile use water sparingly.

The plants should be put where they can get plenty of sunshine. Do not stand the pots on the old soil; remove that, and fill the bench with ashes. This means more labor, but it pays. The temperature should never go over 70 or 72 degrees on clear days; 58 to 60 degrees nights. PENN.

ROOTED

Carnation Cuttings

	Per 100	Per 1000
Mrs. M. A. Patten.....	\$5.00	\$40.00
Prosperity.....	2.50	15.00
Fair Maid.....	2.50	15.00
Mrs. T. W. Lawson.....	2.50	15.00
Mrs. Nelson.....	2.50	15.00
Harlowarden.....	2.50	15.00
Harry Fenn.....	2.50	15.00
The Queen.....	2.50	15.00
Queen Louise.....	2.00	10.00

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	Per 100
Bride.....	\$10.00
Bridesmaid.....	10.00
La Detroit.....	12.00
Gen. MacArthur.....	12.00
Liberty.....	12.00

ROOTED CUTTINGS—Ready Now.

	Per 100
Bride, Bridesmaid.....	\$10.00
Chatenay.....	15.00
Liberty.....	2.50
Perle.....	2.50

CARNATIONS

	Per 1000
Gov. Wolcott.....	\$12.50
White Cloud.....	12.50
Norway.....	12.50
Lawson.....	12.50
Morning Glory.....	12.50
Joost.....	12.50
Enchantress.....	25.00
Flamingo.....	50.00
Crusader.....	40.00
Estelle.....	25.00
America.....	12.50
Crane.....	12.50
Prosperity.....	12.50
Gaiety.....	15.00

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	Per 100	Per 1000
MRS. T. W. LAWSON.....	\$2.00	\$15.00
WHITE LAWSON.....	5.00	45.00
MRS. M. A. PATTEN.....	4.50	40.00
BOSTON MARKET.....	2.00	18.00
PROSPERITY.....	2.00	18.00
ADMIRAL CERVERA (var.)..	2.00	
MRS. T. W. LAWSON and BOSTON MARKET, from 2 1/2-in. pots or flats, good strong plants from cuttings made last November 800 at 1000 rates.		20.00

Satisfaction guaranteed. Cash with order.

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Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000.

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Please place your orders now.

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CARNATIONS

	Per 100	Per 1000
Enchantress.....	\$3.50	\$30.00
Lawson.....	2.00	15.00
Harlowarden.....	2.00	15.00
Boston Market.....	1.50	10.00
Wolcott.....	1.50	10.00
America.....	1.50	10.00
Stocky cuttings that will make fine bushy plants. They will please you. If not, return plants and money will be cheerfully refunded. Extra plants to fully pay express charges. Can furnish other varieties at low prices.		

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Contents.

Table listing contents and page numbers, including American Carnation Society, Among the Growers, Canadian News, etc.

Foreign Grapes Outdoors, Shrubs, Etc.

Editor Florists' Exchange: Referring to what Mr. Meehan has lately said in regard to the fruiting of the Vitis vinifera in the open air, I have to say that Mr. Hoyt, out in the mountain country of North Carolina, near Asheville, has for years been growing the French grapes in the open air, grafted on our native roots as a protection against the phylloxera.

INDEX TO STOCK ADVERTISED

Table listing plants, seeds, bulbs, and flowers with their respective page numbers, including Abutilon, Acahyranthes, Agapanthus, etc.

TRADE NOTES:

Pittsburg: Indianapolis, Kalamazoo, Newport, R. I., Syracuse, N. Y.; Washington, D. C.; Buffalo, Cleveland, Louisville, New York, St. Louis, Boston, Chicago, Cincinnati, Week's Work, The.

MISCELLANEOUS.

Baskets, Boilers, Books, Carnation Bands, Cement Benches, Collections, Cut Flower Boxes, Decorative Greenery, etc.

CARDINAL

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GARNATION CUTTINGS—Rooted.

ORDERS FILLED NOW. SATISFACTION GUARANTEED. Per 100: Fair Maid, best paying light pink \$2.50, Alpine Glow \$2.00, etc.

sprays with bloom almost as fully as a white spraea. The California privet gets rusty in Winter and in some Winters loses its leaves. The japonicum is well worth trying north, for its compact habit would make it valuable for a low hedge.

Here, in Raleigh, the oleander sometimes comes through the Winter, but is generally cut back by the frost. But down in the coast country there are great clumps of white oleander that even passed the last hard Winter and bloomed like snow banks.

On Smith's Island at the mouth of Cape Fear River, the forest growth is live oak, rosemary pine and cabbage palm, Sabal palmetto. It seems to be the rule in nature that trees reach their finest development on the northern limit of their growth.

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All in Fine Condition, Well Rooted.

PINK.		LIGHT PINK.		RED.		WHITE.		
Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	
Mrs. T. W. Lawson	\$1.50	\$12.50	Enchantress	\$3.00	\$25.00	Estelle	\$1.50	\$12.50
Guardian Angel	1.00	9.00	Morning Glory	1.50	12.50	Chicago	2.00	15.00
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CHICAGO WHITE	12.00	100.00	LAWSON	1.50	12.50
RICHMOND GEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	ESTELLE	1.50	12.50
CRUSADER	5.00	45.00	JOOST	1.00	9.00
INDIANAPOLIS	5.00	45.00	HIGINBOTHAM	1.00	9.00
ENCHANTRESS	3.00	25.00	FLORA HILL	1.00	9.00
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ADONIS	2.50	20.00	PERU	1.00	9.00
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ROSES

Rooted Cuttings

Per 100	Per 1000	Per 100	Per 1000		
CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

2 1/2 Pot Plants

Per 100	Per 1000	Per 100	Per 1000		
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ROSALIND ORR ENGLISH	25.00	200.00	SUNRISE	4.00	30.00
LA DETROIT	6.00	50.00	KAISERIN	4.00	30.00
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Perfectly Healthy No Rust

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

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Lady Bountiful	5.00	Adonis	2.50	20.00	Queen Louise		per
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Dorothy Whitney	3.00	Gov. Roosevelt	1.50	12.00	Lorna		
Golden Beauty	3.00	Mrs. Potter Palmer	1.25	10.00	Eldorado		\$10.00
Buttercup	3.00	The Queen	2.50	20.00	Mrs. Joost		per
Prosperity	2.00	Mrs. E. A. Nelson	1.50	12.00	Flora Hill		1000
Mrs. J. H. Manley	2.50	White Cloud	1.50	12.00	Portia		

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Orders booked now for delivery in April, May and June

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Rose pots, \$10.00 per 100; 3/4 pots, \$15.00 per 100

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75,000 Carnation cuttings, ready for February delivery. 25,000 ready now—some in pots and trays. Flora Hill, Mrs. McGowan, Joost, Queen Louise, Elton, a fine red. \$1.25 per 100; \$10.00 per 1000. Cash with order, please.

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LOCUST STREET GREENHOUSES, Oxford, Pa.
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Ready now. Orders booked for future delivery.

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Daheim	6.00 50.00
Flamingo	6.00
Enchantress	3.50 30.00
Boston Market	2.50 20.00
The Queen	2.50 20.00
Mrs. T. W. Lawson	2.00 18.00
Gen. Maceo	2.00 15.00
Morning Glory	2.00 15.00
Mrs. G. M. Bradt	3.00 25.00
Melba	1.50 12.00
Queen Louise	1.50 12.00
White Cloud	1.50 12.00

List of other varieties on application.

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Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

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Double, single and Ivy Leaf varieties. 100 1000
Strong pot plants \$3.00 \$25.00
Strong rooted cuttings 2.00 15.00

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Send for catalogue for varieties and prices.

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Feverfew, double white	1.50	12.00
Heliotrope, light and dark	1.25	10.00
Impatiens Sultanii	2.00	
Ivy, German	1.50	
Moon Vine, true white	2.00	15.00
Salvia, Splendens and Bedman	1.25	10.00
Salvia, new early flowering sorts	1.50	12.00
SMILAX, 2 1/4 in., \$2.50 per 100; \$20.00 per 1000;		
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\$12.00 per 100 TO BE DISSEMINATED 1906

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OTTO BOURDY, LOWELL, MASS.
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MY MARYLAND

The Finest New White for 1906

Awarded First-class Certificate by the American Carnation Society at Chicago January 25, 1905. Also, at same meeting, the Lawson and S. A. F. Bronze Medals. ORDER NOW.

Delivery Commences January 1, 1906

\$12.00 per 100; \$100.00 per 1000

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Rooted Cuttings of RICHMOND GEM, the best scarlet

CARNATION
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Flowering Begonias, 2 1/4 in. pots, \$2.50 per 100.
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First Prize for best 100 Scarlet

First Prize for best 50 Carnations in the Hall, open to all

First Prize for best 50 Scarlet Seedlings

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Talk About Prizes!

SIXTY PRIZES won this season is proof enough of the superiority of our plants and varieties.

If you have strong, healthy plants, and the Best Varieties, you can Win also.

NOTE:—Here is our record made at the Chicago Convention last week:

	Rooted Cuttings,	
	Per 100	1000
First Prize, best 100 flesh pink, with Enchantress.....	\$ 4.00	\$ 30.00
First Prize, best 100 dark pink, with Lawson	2.00	15.00
First Prize, 100 Scott pink, with "Fiancee"	12.00	100.00
First Prize, best 100 scarlet, with "Cardinal".....	12.00	100.00
First Prize, best 100 crimson, with Harlowarden	2.50	20.00
First Prize, best 100 yellow, with Dorothy Whitney	4.00	30.00
First Prize in Sweepstakes, with "Fiancee"	12.00	100.00
First Prize, 50 any other color, with Prosperity	2.50	20.00
First Prize, 50 white variegated, with Mrs. M. A. Patten	5.00	40.00
First Prize, 25 yellow. First Prize, 50 yellow.		
First, J. C. Moninger Prize, with 50 Whitney.		
First Prize, 50 crimson, with Harlowarden; Moninger Prize.		
Second Prize, 25 Fair Maid; Second, 25 Lawson; Second, 25 Enchantress		

"FIANCEE" won the LAWSON GOLD MEDAL

The only Carnation and we the only Firm to win it twice.

We sell rooted cuttings 250 at 1000 rate. We have the largest and best stock of WHITE LAWSON. Rooted cuttings of this grand variety, ready for immediate delivery, \$7.00 per 100; \$60.00 per 1000. From 2-inch pots, \$8.00 per 100; \$75.00 per 1000.

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Copy must reach this office Thursday morning to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

The American Carnation Society.

If the weather man does persist in denying the American Carnation Society congenial temperatures for its annual meeting and exhibition, no matter whether these occur in January, February, or March, that fact has no dampening influence on the energy, enthusiasm, and progressiveness of the membership—elements which have combined to make every succeeding convention and show a magnificent success. Chicago's was no exception. Flowers of better quality than ever before were staged, and in an exhibition hall which for elegance, roominess, and airiness has not been surpassed; a large attendance that embraced representatives from Denver to New York; sessions replete with lively discussion on practical trade topics, is the record of the 1905 gathering.

All this will have been learned from our special telegraphic report of the affair, appearing in last week's issue, a report which, on comparison, will be found to eclipse that of any other journal making the effort, in completeness of detail, notwithstanding that we labored under the disadvantage of being almost a thousand miles from home, while some of our esteemed contemporaries were right on their native heath, within a stone's throw of where all that took place occurred. We merely mention this in passing to demonstrate that the enterprise of The Florists' Exchange is not limited by distance; that no expense or effort is spared by us when our readers' interests are concerned.

To resume. The change of date of the exhibition to the latter part of January appears to have given entire satisfaction. It was the opinion of such expert growers as Eugene Dalledouze and Richard Witterstaetter that the date chosen for this year's show was the hardest time of the year to exhibit a carnation. Many varieties will be good in March that are not fit for the exhibition table at this time. The size of the blooms displayed was, of course, a little smaller than what would be seen later in the season, but the quality, generally, was good for the time of year.

It was noticeable, too, that the keeping qualities of the flowers in general were much better than at Detroit. A considerable number, of course, went back the second day, including some of the prize winners—a fact which led to the remark that the best time to judge the varieties, for final decision, would be the second day of the show. Then would a better idea be obtained of one of the most important requisites in a good carnation—its staying powers.

Recognizing the enhancing exhibition value of such a display, and probably with the view of providing greater variety, the directors of the society have concluded to offer at the Boston show prizes to the extent of \$100 in cash. Fifty dollars for first, thirty for second, and twenty for third—for best ten varieties, 50 blooms in a vase. This should, in a measure, meet the wants of the commercial growers, some of whom are under the impression that specimens of flowers that are sold every day to customers should also have a place in the society's show along with purely exhibition sorts, and that provision for the former should likewise be made in the prize list.

President Hartshorne's suggestions regarding the society endorsing the holding of an "All-American Flower Show"; also the oft-mooted question of the appointment of judges in different localities to inspect seedlings, were very thoroughly discussed. As regards a flower show, it was decided to co-operate with the promoters of exhibitions in the Fall, in different sections of the country, looking to a display of seedling carnations at each, when the preliminary certificate of the society will be awarded to meritorious new varieties. The matter of the appointment of committees of judges, on the plan followed by the Chrysanthemum Society of America, was again unfavorably received. This was to be expected. Such inspections could only demonstrate what the introducer himself was capable of doing with the new variety inspected—information that he at all times is willing to truthfully impart when asked; and would be no greater guarantee of general well-doing to investors in novelties than that already available. The oft-repeated advice to go slow on new varieties, while trying a few of all, still holds good, and cannot be superseded.

The interest taken by the members in the McKinley Memorial Fund is especially commendable. The establishment of McKinley Day or Carnation Day—in commemoration of the late President's birthday—is an institution that is working, and will continue to work, great good to the carnation industry. As was pointed out, a donation of a percentage of the carnation sales on that day, by everyone handling the flowers, is but a small commission for goods already delivered. Swell the McKinley Fund to an extent commensurate with the well-known generosity and gratitude of the craft.

All the papers presented at the meeting were of an intensely practical and valuable nature. The discussion which ensued on Professor Hasselbring's essay on "Carnation Diseases" served but to further deepen the mystery of the origin of the ills the plants are heir to. We are now pretty well informed of the pathological diagnoses of the different diseases; what they are like, how and in what manner they attack the plants. The cause, particularly that of stem rot, is still an unsolved problem. Mr. Fisher, a careful grower and keen observer, believes this disease proceeds from a check given to the plants; from cuttings being left too long in the sand in the cutting bed, or being delayed in transit from grower to buyer. Instances were cited where cuttings taken from the tops of plants, healthy to all appearances, would have no stem rot, while the original plants themselves would afterward be attacked by the disease. It was believed that indoor planting would prove beneficial in combating the trouble, as when carnations are planted out in the field they are subjected to checks, caused by extremes of weather conditions, from which the rot is supposed to more directly proceed. Professor Hasselbring asserts that the stem rot spores cannot live in sterilized soil—that is, soil that has been heated to 220 degrees; yet Mr. Ward mentioned a case where cuttings of Flamingo were rooted in sterilized sand, potted and planted in sterilized soil, and 50 per cent. of them died of stem rot. It was explained by the professor that the disease in this case may have been spread by the cuttings themselves. The fungus need not necessarily be in the soil itself. The spores are ever present on decaying vegetable matter, are easily carried, and always ready to attack a plant that offers a foothold, a broken root, or a disintegration of the tissue affording an opening for it. Ordinarily, fungi grow luxuriantly in a moist atmosphere. A soggy carnation bed is sure to have more fungi and stem rot than a drier bed. Mr. Valentine, of Denver, had seen the fungus occur in his State from a dry condition. There everything has to be irrigated, yet he could raise one of the most beautiful crops of rust imaginable.

The discussion, while evolving nothing particularly new, emphasized the fact that careful cultivation, selecting healthy cuttings for propagating purposes, avoiding those from plants that had at any time been attacked by disease, would insure greater immunity from the ravages of rot and other troubles than carelessness in points essential to the maintenance of health in carnations. And in this particular the remarks of Mr. Weber, of Oakland, Md., are worthy of recapitulation. He said:

"Good ventilation; absence of extremes in watering, and so on, will do away with nearly all of this stem rot. In the cutting bench, particularly, we have been quite successful in keeping it down. Our sand is never sterilized. It is not a sharp, clean sand, free from vegetable matter. It contains considerable lime, dead leaves, little twigs, and so on. We start with good, healthy cuttings, and are very careful not to have the temperature too high, and always ventilate. Stem rot, or the spores that cause it, will never start, unless that condition has been brought about when nature steps in to remove that plant by a process of decay."

The society has made an excellent choice of a presiding officer for 1906. No man stands higher in the

ranks of practical carnation growers to-day; no has done better work for the flower, or has brought it, indirectly, into greater prominence than Pet Fisher. Modest, unassuming, sound of principle, skilful and painstaking practitioner, he is worthy of the premier honor which the American Carnation Society has, unsolicited, conferred upon him. With Mr. Fish directing affairs and the usual co-operation of every member, we look for a grand show, as well as a most successful meeting at Boston next year.

Convention Echoes.

Chicago's unbounded hospitality remains unpaired.

For a hard-working, even-tempered manager, Pl Hauswirth has few equals.

The usual carnation show weather was with us. A special dispensation of Providence, it seems.

Some of the fancy blooms wilted on the second day. Evidently they were timed to the minute.

Pity Dick Witterstaetter's flowers were late; they were beauties. Better luck next year, we hope.

We all were on our good behavior, having not repeated the words: "Lead us not into temptation."

Four hours' judging is an exacting task. Why not have a division of labor? Time and energy both would thereby be saved.

These conventions are generators of good-fellowship, manly friendships, and of information worth having. Every carnation grower should attend them.

The youngest member of the society is Dan Irwin Herr, aged 3½ years, son of the well-beloved secretary of the association. He joined at Chicago.

The orator from Canada made the speech of the evening at the banquet. He reminded the gentlemen from Indiana that "every Richmond has had his fall."

We all missed the genial, gifted Scott, of Buffalo. The motion to send him an expression of sympathy in his illness was thoughtful, well-timed, and well deserved.

President Hartshorne came out of the meeting-pla wrangle with flying colors. Those parliamentarian fellows, like Kasting, Rudd and others, are trying to the nerves of the inexperienced. Moral: Study a Cushing, Mr. Fisher.

The visit to Boston in 1906 will be the second one made by the society to the Hub. The first left very pleasant recollections; the second will emphasize these. Boston has since become a great carnation center, and its carnationists are the most genial gentlemen.

It was something unusual, after a place of meeting had been chosen by the audience and directors, for said spot to withdraw. Yet Toronto graciously did so—for the good of the society. In 1907 Canada will have a larger representation on the membership list than it is expected. The choice of Toronto, in the first place, shows that the American Carnation Society knows no boundary line, and as well evidences the broad-mindedness of its members.

OUR READERS' VIEWS

(Contributions to this Column are Always Welcome.)

Water Cress.

Editor Florists' Exchange:

In your issue of January 21, page 72, A. J. B. ask whether water cress, taken from the swamp, will grow in the greenhouse. Having had no experience in treating water cress in this manner, I cannot say whether or not that method would prove successful, but I fancy that if the plants lifted from the swamp were not too large they would thrive all right. Unless, however, the cress were wanted in only very small quantities, this process would prove too slow and expensive for commercial purposes.

The writer first saw water cress growing under glass in 1885 near Philadelphia, and I think we have been growing it more or less for ten or twelve years.

The soil that will produce lettuce or radish will also grow water cress. As the seed is extremely fine, and the plants therefore very small when they first break through the soil, we deem it best to sow in flats; and as soon as the plants are large enough to prick out into other flats. From the latter we transplant to the bed or bench in rows four inches apart each way. The temperature of the lettuce house suits it nicely, but if given a somewhat higher temperature it will grow much faster. It should be needless to say that it requires copious watering. In all these years we never had a complaint from anyone about its being too bitter. The only difficulty experienced, so far, is that we have never been able to keep the supply up to the demand.

We consider water cress, both for the local trade and for shipping, about as profitable as lettuce. We take a number of cuttings from each plot of ground before it is turned under, but where desired it can be cleaned off with one cutting.

The list of vegetables that lend themselves to profitable cultivation under glass is none too large, and I therefore take pleasure in recommending water cress as a money-making greenhouse crop.

H. L. JANZEN.

Berlin, Ont.

OBITUARY

Charles A. Keyes.

Charles A. Keyes, nearly fifty years a resident of Worcester, Mass., and one of the most widely known florists in the city, died January 27, at his home, 64 North Ashland street, after five days' sickness with congestion of the kidneys and pneumonia, aged 75 years.

Mr. Keyes was widely known in Worcester and has many friends, being popular with his associates in business, customers and those who had an opportunity to make his acquaintance outside of business hours. Right for the sake of right was his only religion, and he lived according to this principle throughout his life.

Charles A. Keyes was born in Northboro. He got his early education and remained in the town of his birth until 16 years of age, when he left home to teach writing. As a writing teacher, he worked in many cities and towns in New York, following this calling several years. Later he devoted his energies to the study of painting and graining, at which he became an expert. He followed that business until 75, in which year he started his present floral business on Highland street.

More than forty years ago Mr. Keyes began to raise tomato plants and cultivated many thousands of them annually. He was the originator of a small but very prolific variety, which he called "Keyes early," for the seed of which he received \$1,800.

Mr. Keyes was married when 26 years old to Miss Clara Chandler, who predeceased him eleven years ago. He leaves five children.

Although Mr. Keyes did not profess to be a society public man, he was interested in all branches of agriculture and horticulture, and for this reason was an active worker in the interests of the Worcester Agricultural and Worcester Horticultural societies. The funeral was very largely attended January 30. The oral tributes were numerous. It has not been decided what disposition will be made of the business.

Dan Newsham.

On Sunday, January 15, after a sickness of but four days, Dan Newsham died at the Touro Infirmary, at New Orleans, La. At the time of his death, Mr. Newsham was in the prime of life, being 35 years of age and hale and hearty up to a few days before. He was a native of Lancashire, England, and came to New Orleans about nine years ago, where he worked for a while with his brother, James Newsham, in the nursery business. Later on he accepted a private place, which he ably attended to until a little over a year ago. Since then he was engaged in collecting plants for the Louisiana exhibit at the St. Louis exhibition, and took care of them during the fair. Since his close he had been in New Orleans with his brother in the nursery business up to the time of his demise.

Mr. Newsham was for several years secretary of the New Orleans Horticultural Society, and as such made lots of friends among the local horticulturists, as well as private parties, and his loss is keenly felt.

H. P.

[The publication of the foregoing has been unavoidably delayed.]

George Young

George Young, a violet grower of Tallmans, N. Y., died suddenly at his home on January 28, from what was supposed to be ptomaine poisoning, resulting from the eating of a cream puff in New York City on the day of his death. He leaves a widow and five small children to mourn his loss.

Our London Letter.

BY A. HEMSLEY.

COVENT GARDEN FLOWER MARKET continues to be well supplied with almost all seasonable flowers. Just now roses are rather scarce. In red, Liberty is the greatest favorite, but the old General Jacqueminot is still grown extensively. Madame Abel Chateaufort is a good, useful variety and comes next to the reds for prices. Kaiserin Augusta Victoria make good prices. Bridesmaid is also much in demand. Chrysanthemums have held out well; and, taking the season through, growers should not have much to complain of. Poinsettias have been unusually good and plentiful, but they are now nearly past. We see very few of the double (plenissima), which is so useful for late work.

Heath growers have had a better time of it, but the E. hyemalis are now getting over; good gracilis are quite past, and melantha is getting short.

Good palms are sold at lower prices than formerly, and most growers seem overstocked with them. Kentias and latanias are the most plentiful. Cocos and geonomas make better prices. While speaking of

palms I may mention that seeds seem likely to be plentiful this season. Those of Cocos Weddeliana are already being offered at auction; they have gone up to 2s. per thousand. Kentia seeds go very cheap.

Liliums hardly reach such good prices as they did last season. Best crowns of lily of the valley seem likely to run short, and advanced prices are asked; bloom, however, continues plentiful, and much of it seen in the market is very fine. Growers say that the very large variety (Fortin's Giant) does not force well. Imperial is a better sort for Winter work. The old Spirea japonica still holds its own as the best for Winter work. One grower, who had some fine plants of S. astilboides floribunda, tells me that it does not stand well, and that he will not grow it again for early work.

Violets have been making big prices this season—Princess of Wales, large blue (English grown), moderate-sized bunches, 6s. per dozen. And the best from the south of France have gone up to 4s. per dozen bunches. Parmas have also made big prices. With all the large supplies we now get from various sources, anything specially good commands high figures.

Daffodils are coming in; just at present high prices are made, but a few warm days would bring them down. The large trumpet sorts of the Golden Spur type make best values.

American carnations are more appreciated than ever; the greatest favorite is Enchantress. This variety has been re-christened, Fascination being the new

The Gardener and Landscape Gardener.

(Abstract of paper read by J. Woodward Manning before the Boston Gardeners and Florists' Club.)

Mr. Manning, after explaining the relationship that should exist between the landscape architect and the gardener, went on to give the following valuable advice:

Many gardeners feel that their duties are altogether too varied now, and their present efforts are not sufficiently appreciated as it is. It cannot be denied that this may be so; but may this not be due to yourself, largely? This may or may not be possible according to opportunities; do you make the most of such whenever they occur? Is not your greatest opportunity in so broadening your knowledge and applying it that your worth may have greater recognition? If your duties are so numerous and varied that gardening must of necessity be a minor matter, you may still broaden your knowledge as far as possible; but look to it that as soon as may be you obtain a situation elsewhere that your gardening propensities may be better appreciated and encouraged. The broadening public interest in gardening that is being produced by the numerous horticultural books and papers, now existing or promised, is but a forerunner of what is to follow. I believe it indisputable that New England will eventually become a center of as intense interest in gardening on the part of the householder as well as the gardener, as is now the case in old England, with the result at least that the gardener will, on many estates, be given the opportunity to apply his exclusive attention to his profession; hence the importance to broaden your knowledge to meet the demand.

Don't fall into the common error of following a rut of work, planting only what you have planted in the past, repeating the same treatment in the most perfunctory manner. Don't feel that you should necessarily be directed by the owner without taking the initiative when opportunity presents; this may be unavoidable, perhaps the fault is yours.

The solving of the problem of opportunity I consider of the highest importance for the gardener in showing his worth, and this problem is that fundamental basis of landscape gardening that I am advising you to practice where you study to make the most of what you have to work with rather than to follow the lead of some rival, particularly when conditions may be so different as to make such an attempt ludicrous. First study the place as a whole and convince yourself at the outset as to what the limitations must be. The natural conditions ought to solve the problem largely; if a bare open area, then you must produce the future picture; if possessing rugged or picturesque features, arrive at an early decision as to whether such conditions are not the forerunner of the policy you ought to pursue; and if so, use every precaution to preserve what nature may be abundantly supplying. An old tree may be favorably placed to give emphasis to a view; the study of how to add a bit of planting to aid the effect and complete the picture or to improve by a little judicious thinning with due regard to the preservation of the best will be interesting. Perhaps you can save an outcropping ledge that might ordinarily be considered an encumbrance when it may be the opportunity to form an interesting feature of itself; or, with proper planting form the nucleus of something of harmonious interest. The use of the greatest discretion in clearing underbrush in a bit of woods, with a careful discernment as to whether the native growth does not of itself have ornamental value in better harmony and attractiveness than could be produced artificially; even a mass of clinging poison ivy clambering over a sturdy tree trunk may perhaps be preserved, provided you supply planting at the base of an impenetrable nature to preclude any danger.

Recognize and study the value of our common native plants, our ferns, native roses, our own wild asters and columbines, witch hazels and many other that the landscape architect has had sufficient discernment to take advantage of. Many of these plants are adapted to shady or sterile situations where effort to establish exotic plants would be disappointing. This by no means, however, precludes the use of the exotics wherever their proper place may be. You can get lots of good points from nature on the grouping and combination of plants that will work to advantage under varied conditions.

Carefully study the adaptability of plants; don't place rhododendron and azalea beds in sunny unprotected, dry situations, where annual expense will be required to provide the needed protection artificially, and which can only partially produce the desired results and eventually discourage your employer in such expenses.

(To be continued)



THE LATE CHARLES A. KEYES

name under which it has been sold, but most growers stick to the old name. Mrs. T. W. Lawson is much appreciated. One grower has adopted the American system of planting them out on benches, which has proved a great success.

When calling at Messrs. Wills & Segar's a few days ago, I found they were making a great show in the new extension of their cut flower department. This is a lofty structure, and the stands are adapted to the height. Stout bamboos, standing 8 feet high, filled from base to top with poinsettias, made a great show. Long racemes of Odontoglossum crispum show well on these tall stands. Chrysanthemums are also well displayed. The square baskets, with colored chipmats, and ribbon appendages, are still much in fashion. Instead of mixing the flowers, each subject is shown in bold bunches. This creates a much finer effect than the old mixed medley system. Mauve and pink continue to be the favorite colors.

Choice collections of stove and greenhouse plants seem to have quite gone out of demand. When at Messrs. Veitch & Sons, recently, I noted that large patches of useful plants seemed to be taking the spaces formerly occupied by collections of miscellaneous ones.

Advertising in THE FLORISTS' EXCHANGE means circulation among the best buyers of all classes of stock, the kind of advertising that brings RESULTS.

The Retail Trade

PHILADELPHIA.—The principal event of this week was the Founders' Day celebration at the Union League, on Monday last, at which President Roosevelt was present. The decorations were done by the Wm. Graham Company, who had a large force of men at work all day Sunday, all night, and again all day Monday. The café on the main floor was transformed into a reception room. At one end, where the President stood, flags were draped overhead and a background of palms and flowering plants made. In the center of the large room a decoration of rockwork, with fountain playing, was carried out; ferns in pots and colored electric lights were worked in between the rockwork. This made a very pretty effect. Around this, on the floor of the room, a garden scene was created. This consisted of beds of azaleas in several colors, other beds of lilies, cinerarias, narcissus and tulips. The walks between these beds all led to the receiving stand at the end of the room. The decorations in the banquet room were very elaborate. Overhead was festooned with smilax and colored lights, the walls being hung with wild smilax in which wall pockets of flowers were suspended. The head table was decorated with American Beauty roses; each of the other tables was decorated in a different color with shades on the electroliers to match the color of the flowers used. Instead of the tables being designated alphabetically the word "Roosevelt" was substituted, one letter to each table, this being so arranged that it caught the eye the first thing as one entered the room. Back of the head table, on the platform, were large vases of American Beauty roses. The entire building received some attention from the decorator. The rooms set aside for the President's private use were decorated with palms and vases of American Beauty. The whole work was well executed, and the house committee of the Union League have complimented Mr. Graham for his effective services. The President was greatly pleased. In his own words to Mr. E. T. Stotesbury, he said: "Previous to this the best decoration in my honor was the banquet tendered me in San Francisco; that was a garden of flowers, but this is a paradise." DAVID RUST.

DECORATING FOR McKINLEY DAY.—For Carnation Day, January 29, the Central Michigan Nursery Company, of Kalamazoo, made a handsome display. In the center of the show window was a fine portrait of the late President McKinley, and upon a broad white silk ribbon was the legend in purple letters, "President McKinley's Favorite Flower." In the background was draped a large American flag, and before and all about the picture were potted carnations of every variety and shade. The blending of pink, white, dark red and green with the birch bark and flag background, made an artistic color scheme. The company further celebrated the day by presenting a carnation to every conductor and motorman of the Michigan Traction Company in the city, on Saturday.

FROST ON GLASS.—To remedy this evil it seems that some German has discovered a means of keeping the glass clear. According to "The Pharmaceutische Zeitung," a mixture of 55 grammes of glycerine dissolved in 1½ pints of 62 per cent. alcohol may be used for rubbing over the inner surface of the glass. This is claimed to prevent the formation of frost and moisture from condensing on the glass. If objection is taken to the smell, some oil of amber may be put into the mixture.

The Milwaukee (Wis.) Sentinel devoted a full page of its magazine section, Sunday, January 29, to a portrait of the late President McKinley, bordered by red carnations. This was of great benefit to the local trade. The Carnation League of America and its work was the subject of a leading article in the same newspaper.

A. C. S. Wreath for McKinley's Tomb.

At the annual meeting of the American Carnation Society, held in Chicago last week, the society decided to send a suitable floral offering to the tomb of the late President McKinley, at Canton, O., on January 29, the anniversary of the deceased President's birth. The work was entrusted to Phil. J. Hauswirth, of Chicago, and the accompanying illustration represents the design sent. The wreath was composed of Mrs. Thomas W. Lawson carnations, and Asparagus Sprengeri. R. J.

Realism in Japanese Flower Shows.

Those desirous of introducing innovations at our chrysanthemum shows may find a few hints in the methods employed by the Japanese at their exhibitions, as described in a recent issue of Harper's Weekly, by William Dinwoodie, special correspondent in the Far East, who writes as follows:

"Japan has gone war mad. Her latest craze is her Winter Flower Shows which depict every conceivable phase of the tremendous struggle with Russia in huge staged pieces of chrysanthemums.

"On entering you pass through winding walks, banked high on either side to a depth of six feet with chrysanthemums in endless varieties of form and color. The delight and admiration of the clusters of sight-seeing Japanese, as they critically discuss the merits of certain flowers,

interest the visiting foreigner even more than the blossoms themselves, for, after all, while the flowers are very beautiful and the color, shape, texture and size wonderfully varied, our florists at home have, by scientific culture and crossing, succeeded in forcing the chrysanthemum to a point of even greater perfection than has yet been attained by the Japanese.

"Upon turning a corner of the flower-walled passageway, one runs full into the Er-lung-shan Fort at Port Arthur. A desperate assault is on. The Japanese attacking party are scaling the massive green walls (made of bamboo splints and covered closely with small-leaved green vines). On the ramparts, Japanese and Russians are clinched in mortal combat, with real swords in full swing in the air and real guns clubbed ready to dash out papier-mâché brains, while real bayonets are thrust into straw and bamboo vitals of soldiers brilliantly uniformed in close-set chrysanthemums.

"In spite of the highly artificial character of the scene, it is very striking and realistic, and a subdued light tends to heighten the illusion. The portrayed action and poses of the life-size figures are usually excellent; men fall headlong from the walls, cruelly wounded; they run crouched with fixed bayonets, suggesting every ounce of strength reserved for the final thrust in their contracted arms; they stagger and reel backward from shell and gunshot wounds, or fall limply forward on their faces as they run.

"Possibly what adds more to the graphic effect than anything else is the excellence of the head masks and hands, executed in straw-plaster and modelling plaster by the skillful Japanese artists. Every phase and shade of human emotion is exhibited on these startlingly realistic faces. The agony of a frightful wound; the grim ferocity of a perspiring man, struggling to kill his enemy; the enthusiasm of the charge; the fear of the defeated—all these are moulded into physiognomies made lifelike by accurate coloring and real eyebrows, eyelashes, mustaches, beards and hair.

"The heads and hands of these dummy figures cost from five to eight dollars in gold, if they are not intended to be an exact likeness of some prominent man. One may



Wreath of Carnations sent by A. C. S. to President McKinley's Tomb.
Artist, Phil. Hauswirth, Chicago.

have an exact replica of any person made from a photograph as a guide—or, better still, from sittings of the actual subject—for a hundred dollars in gold.

"The revolving stage is the favorite method of displaying these war scenes in flowers to the interested public. A circular stage, thirty feet in diameter, carries two tableaux, back to back, separated by painted backgrounds. On the one side, for example, there may be a group of Russian Cossacks and Japanese cavalry, fiercely fighting on a hilltop of red, yellow and white chrysanthemums, while, in the distance of painted background, a Japanese squadron is pounding forward, full tilt, to the relief of their purple-chrysanthemum comrades, waging a fight with drawn sabres against a superior force of red-chrysanthemum-coated Russian lancers. The horses are all of flowers, often bizarre in color.

"On the other side of the stage, which slowly revolves upon the signal of two resonant sticks struck together several times by the voluble lecturer, before the eyes of the crowd of standing spectators, is the stirring scene of gallant Commander Hirose's daring attempt to sink a transport in the channel of Port Arthur. Hirose was the naval officer who three times went below decks on the sinking transport in a vain attempt to find a missing warrant officer. The vessel had been hit a dozen times by shells from the Russian land batteries, and, in a blaze of searchlights, shells were bursting around it by the hundreds. With the ship sinking under his feet, he clambered into the small boat alongside, and almost with his order to give way, came the messenger of death which ended his life.

"The mechanical devices of these fixed pieces are simple and crude. The stage revolves on a central axle, like the wheel of a cart set sideways. The motive power is half a dozen men. In some of the tableaux the small boats filled with sailors rock in the billowy sea of flowers, and the derelict, battle-scarred ships sink creakingly, while jacksies, overboard, strangled in the sprays of white blossoms, swim manfully up and down in the same spot. In some of the cavalry charges, horses and riders rise to the summits of flower-crested hills, to sink out of sight again as the scene is shifted. It is no unusual thing for the supers to come walking out of the setting from behind a great wave and jump off the stage to mingle with the visitors.

"These chrysanthemum shows last two months, and from first to last the blossoming lay figures of men and horses look quite fresh. It is well known that the Jap-

anese can keep a vase of cut flowers in fresh condition longer than any other people in the world, but it puzzles the writer greatly to see how it was possible to keep thousands and thousands of solidly set chrysanthemum blossoms on the bamboo mannikins in almost their pristine beauty for two months, unless they sat up nights replacing them.

"The kindly manager of one show solved the problem for us, by disclosing the interior construction of a figure. Each plant, with its leaves and roots, is put on the figure entire. The flower heads and buds come through the bamboo splints, which are a quarter the thickness of a lead pencil, and are tied in place with rice straw. In side the figure straw is placed, and the plant roots, with out any earth, are woven among it. The leaves of the plant do the best they can in a semi-twilight behind the flowers and between the outer framework and the center straw-core. Every evening the entire exhibit receives thorough watering.

"With no more attention than this the chrysanthemum continue to exist for two months, and the florists say that this treatment retards all growth for the time being and leaves the plant in a condition where it goes neither backward nor forward, but retains all its beauty for many weeks.

"The construction of one flower horse requires the services of fifteen men for one day, at a cost of fifty cents in gold per man. A staged scene, with six or eight figures, painted backgrounds, canvas ship and boats, cost approximately two hundred dollars in gold.

"Some of the florists of Danso-zaka go in for Lilliputian shows, or, as one manager has it displayed on a sign in English, "The real new and mould dolls of the War-Japan-Russia in Manchuria."

"We are going to America next year," one manager informed me, "and I understand you have a great flower show in New York every year. It is there we desire to go first, for it is a great city, and the people of America have had great sympathy for us during our war."

AMONG THE GROWERS.

P. R. Quinlan & Co., Syracuse, N. Y.

A visit to the new establishment of P. R. Quinlan & Co., at Onondaga Valley recently, proved a treat. Under the able management of Robert Dunn, formerly of the Waban Rose Conservatories, Natick, Mass., the stock is looking very thrifty and perfectly clean, with abundance of growth promising a heavy crop of carnations later. Here are grown a large number of the leading varieties of carnations, looking equally well and particularly healthy. The houses are all in one block and of the open plan, light and airy.

In the rose houses, of the same plan and extent, as seen American Beauty growing with Liberty, Bride Bridesmaid, Mme. Hoste, Perle des Jardins, Sunrise, Sunrise, Ivory, Golden Gate and Mme. Abel Chatena. The latter rose, remarked Mr. Dunn, is the best money-maker of the whole, being in constant demand and wonderfully prolific, throwing finely colored flowers with good stems and foliage. This variety will be grown much more extensively by the firm another year, as Mr. Dunn says it has never been out of crop since he had taken over the management of the plant. Sunrise, he remarked, would never see the world on fire, in his opinion, though a very hard some rose. Golden Gate and its white sport Ivory are now making a very fine showing, with abundance of strong canes right from the base, many being from four to five feet high, with superb buds developing. The only drawback to these otherwise grand roses is the sparsity of foliage, particularly on the long cane so characteristic of this variety. Some very fine blooms of Liberty are to be seen, but in limited quantity, and as the grower states the plants had gone dormant early in the season prior to his taking charge, he has as yet been unable to produce bloom in the perfection he has hitherto been accustomed to do. Bride and Bridesmaid have been a little off color in the plants, but he is now rounding them in shape and expects to very soon cut some extra good stock.

This firm has recently erected a propagating house 200 feet long, heated by hot water, with independent boiler, enabling them to handle the temperature to nicety. The past week 32,000 carnation cuttings have been put in. In another house, also lately erected were seen as good a lot of violets as could possibly be wished. A perfect sheet of purple, thousand upon thousands of perfect flowers on good long stems. Here also were large numbers of manetti stocks in pots, in preparation for grafting; large numbers of Crimson Ramblers in pots, together with hybrid rose for Easter forcing, which, with azaleas, bulbous stock, etc., grown at the old plant on West Geneva street, gives some idea of the large business handled by the firm in their downtown store on Salina street. The firm contemplate the erection of a large house for American Beauty in the near future. J. R. B.

Manures for Chrysanthemums.

M. George Truffaut's researches show that while there are differences in constitution as regards varieties, yet as a whole it may be said that if it is desired to grow dwarf, robust plants with firm, regularly distributed foliage and brightly colored flowers, the following facts must be borne in mind: Phosphoric acid assists in the formation of woody tissue and chlorophyll, hastens the production of flowers, and specially heightens the brilliancy of their colors. Without potash the leaves are flaccid, the stems hollow, the flowers of bad shape, and their development retarded. Excess of nitrogenous manure is singularly injurious to the chrysanthemum. Details of M. Truffaut's investigations are given in the "Chrysantheme."—Gardener's Chronicle.

CARNATIONS.

Statement Regarding Fiancee Cuttings.

TO THE TRADE:

We beg to inform all florists who have orders placed for carnation Fiancee, that we have been somewhat disappointed in its refusing to produce enough cuttings for January deliveries owing to its superb habit of producing long flowering stems only. These stems have been pinched back from 30,000 plants, and there is now an abundance of excellent cuttings coming along. We are putting in the sand large batches every week and expect by the latter end of March that all orders now on our books will have been filled. There is an average of 20 cuttings to the plant now in sight, making a total of 600,000 available cuttings for Spring deliveries.

Fiancee has no disease of any kind; it makes fine strong plants by Fall, even from May struck cuttings; in fact, it is the strongest grower of any carnation.

We further wish to state that we intend everyone shall be satisfied with the quality of the cuttings received; we would rather be the losers ourselves than otherwise.

Those who visited our greenhouses after the Carnation Society's convention can vouch for the reliability of this statement as a whole, and especially as to quality and quantity of cuttings obtainable.

We ask everyone to be patient, and in the end all will come right.

CHICAGO CARNATION CO.
James Hartshorne, Mgr.

Full Particulars of Carnation Phyllis.

Phyllis was raised by W. N. Rudd, of Mt. Greenwood, Ill. It is the result of a cross between two unknown seedlings in 1900. It is a light pink, not quite as bright as Enchantress; flowers average about 3 inches in diameter and are borne on long, erect stems. The great merit of it is its productiveness, from early in the season until the end. This variety can be easily grown with a number of others in the same house, but will do best at a temperature of about 52 degrees at night. In any soil it will do well, but, preferably, in a light loamy one, when it will take lots of feeding. For a man wanting a good, profitable commercial light pink carnation, he will find it in Phyllis. Phyllis has received a certificate from the Horticultural Society of Chicago and a certificate and first cash prize from the Chicago Florists' Club. It has also received a certificate at Tarrytown and New York, and won second prize at Philadelphia last Fall in the C. Hartman Kuehn competition.

Carnation Show at St. Louis.

A grand carnation exhibition will be held at the St. Louis Florists' Club meeting rooms on February 9, at 2 o'clock, p. m., in Odd Fellows' Building, southeast corner Ninth and Olive streets, eighth floor, Hall No. 2. The club has offered \$50.00 in prizes; \$25.00 for outside growers, and \$25.00 for local growers. Blooms are to be judged by points, according to the rules of the American Carnation Society. Growers of new varieties are requested to send exhibition flowers. Stock should be sent prepaid to any of our wholesalers: C. A. Kuehn, 1122 Pine street; F. M. Ellis, 1316 Pine street; or H. G. Berning, 1402 Pine street.

Exhibitors should advise the secretary what disposal is to be made of blooms not taking a prize, also of those sent for exhibition only.

Carnation Senator Crane.

This carnation was originated by Edward Dolby, gardener to Zenas Crane, Esq., Dalton, Mass. The flowers are of a pleasing light pink shade, with strong fragrance, making it, with its other good qualities, a variety of sterling merit. The accompanying illustration nearly life size, the flower photographed measuring 3 3/4 inches in diameter. It is in its third year. Stock will be worked up and disseminated by Robert C. Pye, Nyack, N. Y.

Carnation Night at Philadelphia.

All growers of new or choice carnations have been invited to send some of their flowers to the Florists' Club's meeting on Tuesday next, February 7, so a good display is looked for.

DAVID RUST.

Tales of a Traveler.

Del Monte and Its Attractions.

On the Pacific Coast, about one hundred and twenty-five miles below San Francisco, is situated the Hotel Del Monte, which is a resort for tourists from all over the world. The grounds of this hotel are magnificent beyond description, and are an example of what modern science in landscape work can do when combined with the climate which permits of semi-tropical plants being grown as well as the more



GENERAL VIEW OF EXHIBITION OF AMERICAN CARNATION SOCIETY AT CHICAGO, JANUARY 25 and 26, 1905

hardy trees and shrubs, throughout the entire year, with little danger of their being injured by frost.

It was my good fortune to meet Thomas Lee, who has charge of these extensive grounds, and a great deal of credit is due Mr. Lee for his work here. The hotel accommodates about seven hundred guests, and flowers on the tables throughout the year necessitate the growth of considerable stock under glass; the greenhouses, which are a part of this extensive place, show the work which is necessary and its character to keep up the standard which has been set. Several houses of carnations are grown and the varieties are almost without exception of Eastern origin, Mrs. Lawson, Enchantress, Governor Wolcott and Estelle being in the lead. In the Summer there are a large number of carnation plants in the gardens, which produce blooms for the tables, and at no time are carnations a minus quantity. Roses, also, are to be found, but they are not grown in quantity under glass. The American Beauty is a leader for quality. Orchids are represented by a large collection; and flowering plants, such as primulas and begonias, come in for their share of attention. Palms and ferns for house decoration receive considerable space, but the houses devoted to the growing of bedding plants are the more important.

The grounds which this concern devotes to orna-

mental planting cover one hundred and twenty-six acres, and the numerous beds planted to geraniums, coleus, etc., during the Summer would cover acres.

The house devoted to mushrooms is very interesting, and the immense quantity required necessitates that the space devoted to them produces to its limit.

One of the features of the grounds is the Arizona garden. The cacti grown here are very fascinating as well as instructive. The so-called "maze," which is but a system of walks among the shrubbery, is another feature which the visitor should not miss, and from the standpoint of the landscape gardener it would well repay study.

Well-grown trees of all descriptions cover the grounds, and among them are many which would take a place in the "Gallery of Fine Specimens" and which show the care with which they are grown.

Taking Del Monte as a whole, it is an interesting subject for study if one loves nature, and it shows what can be done by taking advantage of the climate and the natural resources of the country. The Eastern man who is a student of ornamental gardening should not fail to see this place in his travels, and the native gardener in the State of eternal Summer can learn much from those who have made Del Monte what so many call it, "The beauty spot of the Californian coast."

W. R. PIERSON.



Fiancee—Gold
(Chicago Carnation Co.)

Robert Craig—Silver
(C. W. Ward)

My Maryland—Bronze
(Weber & Sons, Oakland, Md.)

WINNERS OF LAWSON MEDALS AT CHICAGO EXHIBITION, A. C. S.

CLUB AND SOCIETY DOINGS

THE AMERICAN ROSE SOCIETY.—The schedule of prizes offered by the American Rose Society for the exhibition to be held in Boston, Mass., in conjunction with the Spring show of the Massachusetts Horticultural Society in March next, is now in the printer's hands and will be distributed shortly. From an advance copy, kindly forwarded by Secretary pro tem., Wm. J. Stewart, 11 Hamilton Place, Boston, we take the following particulars:

In classes of 25 cut blooms, open to all, of the leading commercial varieties of roses, first and second prizes of \$10 and \$5, respectively, are offered, those for American Beauty and Queen of Edgely being \$10 and \$7. In the 12-bloom classes premiums of \$5 and \$3 will be given. For 12 cut blooms of hybrid perpetuals prizes of \$10 and \$3 are offered.

The special prizes for cut blooms include the following: For display of cut blooms of roses not less than five varieties and not less than twenty-five blooms of any one variety, to be competed for by growers outside of a radius of 150 miles of Boston, as measured by railroad time tables (prize presented by Benjamin Dorrance), silver cup, value \$100.

Twenty-five blooms of any red rose not disseminated previous to 1903 (offered by John B. Nugent, Jr.), \$25, \$15.

Twenty-five blooms of any pink rose not disseminated previous to 1903 (offered by John B. Nugent, Jr.), \$25, \$15.

Twenty-five blooms of any American seedling rose introduced in or since 1901 (offered by President Alexander Montgomery), \$25.

Fifty blooms of Killamey, grown within 250 miles of Boston (offered by Siebrecht & Sons), \$25.

Fifty blooms of La Detroit (offered by John Breitmeyer's Sons), \$50, \$30, \$20.

Display of blooms, not less than ten varieties, in a space of fifty square feet—20 points allowed for effect (offered by Treasurer John N. May), \$50.

Fifty blooms of American Beauty rose (the Executive Committee prizes), \$50, \$25.

The Lord & Burnham trophy, valued at \$250, presented by the Lord & Burnham Co., will be awarded in conjunction with the first (cash) prize for fifty American Beauty roses in this class, and will become the property of the competitor winning it twice hereafter, consecutively or otherwise.

Fifty blooms of any other variety (exhibitors may use their own vases), \$20, \$15.

Six blooms of any variety introduced in 1901, or subsequently, \$5, \$3.

Twenty-five blooms of any rose of American origin, not yet in commerce, either tea or hybrid tea, seedling or sport, silver cup, value \$50.

For Private Gardeners Only. Twenty-five blooms of H. P. roses, not less than six varieties (offered by E. A. Clark), silver cup, value \$25, or cash if preferred.

Pot Plants (open to all).—Twenty-five H. P. roses, in pots, not less than ten varieties (presented by Col. Chas. Pfaff), silver cup, value \$50.

Twelve H. P. roses, in pots, not less than five varieties (offered by M. H. Walsh), \$25.

Six plants, any one variety (not climbers), in not larger than 8-inch pots, \$8, \$5.

Note:—Prizes may be awarded for each variety shown, at the discretion of the Judges, and entries in this class are unlimited.

Specimen plant in pot (not climber), \$10, \$5.

Climbing Roses, in Pots.—Specimen plant, trained or not, in tub or pot (not less than 12-inch), \$12, \$8.

Crimson Rambler, six plants, \$12, \$8.

Six plants, distinct varieties, in not exceeding 7-inch pots, \$12, \$8.

Display of Rambler and climbing roses, in pots, covering not less than fifty square feet (special prize offered by F. R. Newbold), \$25.

Specimen Wichuriana hybrid, any variety (offered by Benjamin Hammond), \$15.

American Rose Society's Medals for Novelties.—Gold medal for the best new rose not yet disseminated, whether of domestic or foreign origin. Exhibits to be judged by the official scale of the American Rose Society, and no

gold medal to be awarded to any rose scoring less than 95 points.

Silver medal is offered at the same time and under the same conditions for a novelty scoring not less than 85 points.

It is further ordered that the complete scores of all entries in the competition be filed with the secretary of the American Rose Society before the award of any medal is confirmed. No duplicate medals will be awarded. It is understood that though the award of the gold or silver medal may be made to the same variety from one exhibitor exhibited in different centers, only one medal will be delivered to the exhibitor.

The Executive Committee of the American Rose Society reserves to itself the right of selection of the judges who shall pass upon the exhibits in the competition for these medals.

THE WESTERN NEW YORK HORTICULTURAL SOCIETY.—This society celebrated its fiftieth anniversary with a very successful meeting at Rochester, N. Y., January 25 and 26. Its first president, in 1855, was John J. Thomas, author of "The American Fruit Cultivist." H. E. Hooker and James Vick were other presidents of the association; Patrick Barry was pres-



M. A. PATTEN, TEWKSBURY, MASS.

ident from 1870 until his death; and his son, Wm. C. Barry, of Ellwanger & Barry, has been president continuously for fifteen years. The present secretary, John Hall, has occupied that position since 1890. The society has now 580 members.

The report of the secretary, John Hall, showed an income of \$1,288.42 and a bank balance of \$132.78. For the permanent fund, William C. Barry, trustee, reported a balance in the bank of \$3,055.10.

The display of fruits in Fitzhugh Hall included an



SINGLE BLOOM, MIKADO
Patten & Co., Tewksbury, Mass.

attractive exhibit by the Mt. Hope nurseries of Ellwanger & Barry. This consisted of 102 varieties of apples, 37 varieties of grapes and 40 of pears. Also six varieties of pears shown by William C. Barry. An exhibit of apples from the New York State Experimental Station in Geneva consisted of 175 varieties, also a display of onions, carrots, turnips and grapes. G. H. and D. D. Stone, of Lansing, Oswego County, also had an attractive apple exhibit. The entire building was circled by spraying apparatus, engines, pumps, orchard ladders, barrels, etc. A new feature was seen in the small engines mounted on spraying trucks, which may be driven into the orchards. They do away with the strenuous work of pumping by hand.

The committee of award for the Ellwanger cash prizes reported first prize to A. G. Eighme, of Lockport, and the second to W. H. Pillow, of Canandaigua.

A comprehensive and interesting program was gone through. President Barry asked increased endeavor in the securing of membership. He desired to be relieved of the presidency.

George T. Powell, of Ghent, N. Y., brought before the growers the advantages of community spraying. The plan includes the purchase by the growers of a community of the best and most powerful spraying apparatus known, and its use on all of the trees of the community.

A resolution asking Governor Higgins to reappoint Charles A. Weiting State Commissioner of Agriculture at the expiration of his term, was passed by the members, as was also one asking for an appropriation from the Government with which to fight the gypsy moth.

Before adjournment the committee on nominations reported the following ticket: President, William C. Barry, Rochester; vice-presidents, S. D. Willard, Geneva; J. S. Woodward, Lockport; Albert Wood, Carlton Station; Grant G. Hitchings, Syracuse; secretary-treasurer, John Hall, Rochester, N. Y.

In spite of the protest of President Barry, the ticket as reported by the nominating committee was adopted by a unanimous vote, the secretary being instructed to cast a single ballot for the ticket.

The following committees were also nominated by the committee, and appointed by vote of the members:

Executive Committee—C. M. Hooker, Rochester; Duane Bogue, Medina; Henry L. White, Brockport; I. H. Dewey, Rochester; W. Hopkins, Youngstown.

Botany and Plant Diseases—Prof. F. C. Stewart, Geneva; Dr. L. H. Bailey, Ithaca; Albert Perkins, Rochester; C. H. Stuart, Newark; Willis T. Mann, Barker; A. G. Eustace, Geneva.

Chemistry—Dr. L. L. Van Slyke, Geneva; Dr. S. A. Lattimore, Rochester; Prof. I. P. Roberts, Ithaca.

Entomology—Lewis Hooker, Rochester; J. E. Rose, South Byron; Prof. F. J. Parrott, Geneva, chairman; C. H. Stuart, Newark; J. Jay Barden, Stanley; Prof. E. P. Felt, Albany; Dr. G. T. Howard, Rochester.

Foreign Fruits—George Ellwanger and Irving Rouse, Rochester; I. H. Babcock, Lockport; Frank E. Rupert, Seneca; John Charlton, Rochester; George H. Moody, Lockport; H. J. Peck, Brighton; D. Rhind, Canandaigua.

Flowers and Bedding Plants—C. W. Seelye, Rochester; Charles J. Maloy and John A. Charlton, Rochester.

Garden Vegetables—O. M. Taylor, Geneva; L. D. Welch, Pittsford; Abram Franke, Irondequoit; Edw. H. Munt, Le Roy.

Grapes and Small Fruits—Edward H. Pratt and George S. Josselyn, Fredonia; Laurence J. Farmer, Pulaski; Delos Tenny, Hilton.

Native Fruits—W. C. Barry, Rochester; Dr. L. H. Bailey, Ithaca; Prof. S. A. Beach, Geneva; C. H. Perkins, Newark; A. E. Babcock, Brighton; L. Wolverton, Grimsby; Ont.; D. K. Bell, Brighton.

Nomenclature—Prof. S. A. Beach and S. D. Willard, Geneva; W. J. Edmunds, Brockport; William C. Barry, Rochester; Prof. John Craig, Ithaca.

Ornamental Trees and Shrubs—C. C. Laney, Rochester; Nelson Bogue, Batavia; Theo. J. Smith, Geneva; Charles J. Maloy and John Dunbar, Rochester.

WORCESTER (MASS.) HORTICULTURAL SOCIETY.—The meeting of this society, January 26, was not well attended. The speaker, Frank L. Johnson, superintendent of the Truant School at Oakdale, Mass., described their training for boys, especially in the line of gardening. CAROLUS,



BENCH OF THE NEW SEEDLING CARNATION, MIKADO
Growers, Patten & Co., Tewksbury, Mass.



FIRST PRIZE 100 WHITE—LADY BOUNTIFUL
E. G. Hill Company Exhibitors

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN.—The members of this association, which was organized a little over a year ago, enjoyed a banquet in the Masonic Club, Rochester, N. Y., January 24. William Pitkin presided, and among the principal speakers were Professor John Craig, of Cornell University, and John B. Morey, Jr., of Dansville.

Among the Rochester concerns represented were: Allen Nursery Company, four; American Fruits; Brown Bros. Company, eight; H. J. Bowden; E. G. Bowden; P. W. Butler; E. Brown Company; John Charlton & Sons; Charlton Nursery Company, three; Chase Brothers' Company, seventeen; Gilbert Costich, two; Ellwanger & Barry, two; Glenn Brothers, two; F. E. Grover & Company; Graham Nursery Company, two; Gillies Lithograph Company, two; Hawks Nursery Company, three; Hooker Wyman & Company, six; George Jenny; J. B. Kiley; R. D. Leitchford; W. H. Mead; George Moulson & Company; Oliver Brothers; C. H. Peck; H. C. Peck; H. D. Pratt; Rochester Lithograph Company; Irving Rouse; D. A. Skuse; Rochester Nursery Company; W. W. Steele; Taylor Nursery Company, four; Western New York Nursery Company, two; Allen L. Wood; C. L. Yates, two; James Vick's Sons, two; Vick & Hill, two; Vredenburg & Company, two.

The out-of-town firms represented were: Nelson Bogue, Batavia; R. G. Chase Company, Geneva, two; Clark Nursery Company, Waterloo; George Brothers, East Penfield; Hill Brothers, Irondequoit; F. M. Hartman, Dansville; Jackson & Perkins Company, Newark; George Josselyn, Jacksonia, two; Maloney & Son, Dansville, two; Morey & Son, Dansville, two; J. Frank Morris, Brighton; Peirson Brothers, Waterloo; W. & T. Smith Company, Newark, five; Storrs & Harrison, Painesville, O.; J. H. Dayton, representing the last named company, was the only person present from other than New York State.

The dinner committee was composed of B. F. Allen, H. S. Taylor and W. W. Wyman.

MASSACHUSETTS HORTICULTURAL SOCIETY.—A general discussion on "Fruit" was the subject of the weekly meeting at Horticultural Hall on Sat-

urday. The subject was introduced by E. W. Wood, of West Newton, who for a quarter of a century served on the fruit committee of the society. According to Mr. Wood the two leading fruits of New England are the apple and the pear. Of the former the Baldwin is the best commercial variety, and of the latter, Bartlett, Sheldon, Clairgeau, Dana's Hovey, Anjou, Seckel and Bose are the leaders. Mr. Wood told of the many farms in New England that could be profitably turned into well-paying orchards, and touched on the importance of the proper grading of fruit for the market. He also spoke of peaches as a fruit crop, but claimed they were too uncertain for this locality, although good success had been made by the Connecticut growers from the methods they pursue. An interesting discussion on the points raised followed, participated in by several of the members present. The next lecture before the society will also be on fruit, when Professor John Craig, of Ithaca, will talk on "Findings of an Orchard Survey in Western New York."
J. W. D.

AMERICAN ASSOCIATION OF NURSERYMEN.—In connection with his duties as chairman of the transportation committee of the American Nurserymen's Association, which is to meet at West Baden, Ind., in June, E. Albertson, of Bridgeport, Ind., has



FIRST PRIZE 100 CRIMSON HARLOWARDEN
Chicago Carnation Company

lutions on the death of Dan Newsham. A committee on the official badge was also appointed.

THE EASTERN NURSERYMEN'S ASSOCIATION. at its meeting in Rochester, N. Y., on January 25, elected the following officers: President, W. C. Barry; vice-president, C. H. Hawks; secretary, William Pitkin; executive committee, Irving Rouse, Rochester; George A. Sweet, Dansville; O. G. Chase, Geneva; Charles J. Brown, Rochester; C. A. Stuart, Newark. The president was authorized to appoint a committee to act with the transportation committee of the American Association of Nurserymen in the matter of freight rates with a view to securing a less prohibitive classification of nursery stock.

THE NEW LONDON AND GROTON HORTICULTURAL SOCIETY held its annual meeting Monday, January 23, President Thomas Head in the chair. A motion to change the name of the organization to the Eastern Connecticut Horticultural Society was voted upon favorably. President Head spoke of the possibility of having one or two shows in Norwich, Conn., the same number to be held in New London, and stated that a committee was at work on the same. A committee of four, they to select a fifth, was appointed by the president to consider a date for ladies' night, and John Maloney and Frank Gledhill, of New London, and Otto Ernst and Rev. N. P. Carey, of Norwich, were named.

HELENA, MONT.—The State Horticultural Society held its annual meeting January 19, 20 and 21. There was a very large attendance. Officers elected were: President, C. F. Dallman, Missoula, and W. Spurgeon, secretary. Missoula was selected as next place of meeting.



DANIEL IRWIN HERR, Age 3½ Years
Youngest Member of the American Carnation Society. He joined at Chicago

just completed a tour of Texas in the interest of the meeting, which promises to be one of the most profitable in the history of the association. Mr. Albertson was met at Sherman by C. C. Mayhew, manager Texas Nursery Company, and John S. Kerr, secretary Texas Nurserymen's Association and member program committee American Association; and at Denison by T. V. Munson, of the Denison Nurseries. President Kilpatrick, of McKinney, has expressed a great desire that his native Lone Star State should be well represented and hopes that out of the 150 nurserymen in Texas, there will be a delegation of at least twenty members in attendance, and southwestern nurserymen should remember the date, June 14, and the place, West Baden, Ind. Nurserymen have enjoyed a prosperous trade the past Fall and prospects are fine for the Winter and Spring trade, and they can do no better than take a week off in June and meet with the leading spirits in their craft, which can but be fraught with pleasure and profit.

NEW ORLEANS HORTICULTURAL SOCIETY.—This association met on January 20, President Papworth in the chair. Among the matters discussed was the holding of a Fall flower show. No flower show has been given in three years, because the society lost money on the last one. Secretary Panter proposed that the show, if given, be given for the benefit of the society. A committee was appointed to handle the subject. C. W. Eichling recommended earnestly that a movement be started for the inauguration of a course in horticulture in the public schools. After his talk a resolution was adopted favoring the project. The secretary's report showed \$123 balance on hand. A committee was appointed to draw up reso-



FIRST PRIZE 100 SCARLET—CARDINAL
Chicago Carnation Co.



CARNATION DISPLAY OF C. W. WARD,
At Chicago Show

Euphorbia Fulgens (Jacquiniaeflora).

During the last month we have heard the praises of the poinsettia (*Euphorbia pulcherrima*) sung in no uncertain tones, and rightly, too, for most assuredly it is a plant which gives the right color at the right time of the year. During Winter, and especially at Christmas, there is always a hearty welcome extended to a warm red color, and in the brilliant bracts of the poinsettia we have it. But a plant of the same genus which ought to be grown, I think, in conjunction with the above, is *Euphorbia jacquiniaeflora*, a subject which deserves a larger share of attention from growers than it has at present.

In Europe, and especially in the Channel Isles (Guernsey), it was and still is, as far as I know, largely grown by nurserymen for the market. The plan adopted there was to plant it out in a shallow border, trained to a wire trellis.

Particularly striking is this plant when grown without any pinching or stopping, when it will make wreath-like shoots 2 to 3 feet long, thickly studded with growing scarlet flowers. Such examples, when grown in pots, are highly effective for arranging among palms and ferns; and for table decoration it can hardly be excelled.

The plant hails from Mexico, and therefore requires an intermediate temperature, say, from 50 to 70 degrees. When grown in pots it is very impatient to large shifts, and therefore should not be overburdened with a large body of soil. What it wants is a nice free and open soil consisting of peat, loam and sand in equal parts, with an addition of rough charcoal. A specimen of this plant which comes to my mind, and which had bloom on it nine months out of twelve, was growing in a large pan of cypripediums, having been there from a seedling, I presume; and its roots had found their way out at the bottom of the pan and had a firm hold of the sand on the bench.



NEW CARNATION THE ARISTOCRAT
R. Witterstaetter Originator

Carnation Mikado.

One of the new carnations which looks very promising at the present time is Mikado, a 1902 seedling, the result of a cross between Governor Roosevelt and Prosperity, originated by Patten & Co., Tewksbury, Mass. The flower is a pleasing combination—white ground overlaid with crimson, is of good form, with large petals, the blooms averaging 3 to 3½ inches in diameter, with a long, stiff stem. The growth is very similar to that of Governor Roosevelt, with no surplus glass. Mikado has an ideal calyx which never bursts. The habit of the plant is strong and erect, blooming continuously throughout the season. The flower is a good keeper, and the variety is classed as a free-blooming fancy carnation.

Witterstaetter's New Carnations.

(Descriptions by Originator.)

J. A. VALENTINE, a beautiful shade of Daybreak pink, considerably deeper than Enchantress.

10221B A large flower, 3½ to 4 inches across, after the style of Fiancee in color.

AFTERGLOW. Color between those of Mrs. Lawson and Fiancee, a vigorous grower, with long, stiff stems; flower 3 to 3½ inches.

THE ARISTOCRAT is a greatly improved Mrs. Lawson, a glowing cerise overlaid with scarlet, extra long stiff stem; an elegant grower and bloomer.

ROBERT C. PYE, Nyack, N. Y., favored this office with a box of nice carnations and Marguerites this week.



CARNATION SENATOR CRANE
Grower, R. C. Pye, Nyack, N. Y



CARNATION J. A. VALENTINE
Grower, R. Witterstaetter

It is an easy subject to propagate. Cuttings of the young wood in Spring, if inserted five or six around the side of a 4-inch pot in sandy soil and placed in the propagating frame, will root readily. Most of the whole genus *Euphorbia* revel in plenty of sunshine; and this plant is no exception to the rule; so to get it to bloom well, give it a sunny position.
EDWIN MATTHEWS.

Frenzied Floriculture.

At the banquet given by the Chicago Florists' Club and Allied Trades to the American Carnation Society last week, "Frenzied Floriculture" was one of the toasts, and was discussed from different viewpoints. Mr. Hill, who replied to the toast, believed such reports as have recently appeared regarding certain carnation purchases were detrimental to the business, giving the impression to the public that the trade were prevaricators to a certain extent. Others held the view that these stories would introduce competition by more millionaire investors, seeking an outlet for their surplus capital. Mr. Pierson, on the other hand, while disclaiming responsibility for the origin of the latest story, thought these reports did the carnation industry lots of good, in the valuable advertising obtained gratis, and otherwise. Another side of the question is presented by the San Francisco Chronicle, which, in a recent editorial comments, among other things, as follows:



SEEDLING CARNATION NO. 1021B
Grower, R. Witterstaetter

"That any one should pay \$20,000 for a carnation seems, at first glance, a waste of good money for a fad. A wealthy resident of Tarrytown-on-the-Hudson is reported by telegraph to have paid this big sum, however, for a new flower developed by a Rockland, Mass., florist. But Thomas W. Lawson, the vigorous Boston writer on 'frenzied finance,' paid \$30,000 several years ago for the world-famous pink carnation which bears his wife's name, and last October Harlow N. Higinbotham, of Chicago, who vainly endeavored to get possession of the Lawson pink, paid \$10,000 to a Lafayette, Ind., florist for a flower of the same kind, which is said to rival Lawson's in beauty.

It is a mistake to suppose that these extraordinary investments in a single rare flowering plant constitute a dead loss to the purchaser or a clear profit to the seller. Each one of these rare plants doubtless represents to the producer years of intelligent and patient labor and experimentation. Thousands of failures are recorded against one successful result, and hundreds of florists work in vain where one scores a triumph. But the buyer of the costly prize invariably turns it to commercial account sooner or later, and more than likely gets back the principal with good interest in the long run. The newly-developed \$20,000 carnation is an eccentric production found in a bed of Lawson, which proves that the flower for which the Boston millionaire paid \$30,000 has been made an extensive article of commerce since he made the investment."

This is a clear case of "many men, many minds," but one thing is certain, that the carnation, on account of these extraordinary alleged purchases and sales, has gained more notoriety through the public prints than has ever before been accorded any other flower. And, surely, such publicity increases trade to an extent that counterbalances the evil which men do in spreading such stories, and which, like all other evil, supposed and real, is interred with their bones, the good alone remaining.



NEW CARNATION AFTERGLOW
R. Witterstaetter Originator



Seeds of Ligustrum Iboata and Citrus Trifoliata.

(59) Please let me know how to handle these seeds, to grow the plants for hedges. Of course I can increase L. Iboata by cuttings, too, but I have not enough of them. E. R.

—Both the ligustrum and the citrus seeds should be kept in slightly moist sand from the time they are ripe, to be sure of getting them to grow. If kept in a dry state until Spring, they do but little good. It has been said that if the citrus seeds are kept in a dry state they will not grow at all. I have not tried this, but it may be a mistake to say they would not grow, as the osage orange seed will grow very well when so kept, and, although it has no relation to the Citrus trifoliata, the seeds are very much of the same nature. J. M.

Heating.

(60) Subscriber.—If a temperature of 60 degrees is desired, a house 20 by 50 feet with two walls without glass five feet high, will require 450 feet of radiation where the outside temperature is ten below zero. For three houses and a corridor, 1,500 to 1,600 feet will be required according to the size of the corridor. If, as stated, the houses are to be extended to a range of 100 feet, a boiler with a rating of about 4,000 square feet of hot water radiation will be desirable. About one-half this amount will answer for steam. For heating the houses, three 2½-inch flows and ten or eleven 2-inch returns will be required, according to the amount of the exposure. L. R. TAFT.

What is the best plan to heat three houses with steam, houses running north and south, each 50 feet long, 22 feet wide, 10 feet to ridge; sides built of wood 3½ feet high. The two outside houses will be heated to 52 degrees, zero weather; middle house, 58 degrees. Boiler cellar is 7½ feet deep on southeast end of houses. The north end is protected. Also give size of sectional boiler required. The houses are to be connected together; iron gutters to be used. ACHESON.

—For the outside houses in which a temperature of 52 degrees is desired, one 2-inch flow pipe and six 1¼-inch returns will give satisfactory results. For the inner house, 22x50 feet, in which a temperature of 58 degrees is desired, one or two extra returns will be required. The three houses will require about 600 feet of radiation, but it will be well to select a boiler rated for 800 or 900 square feet of steam radiation. L. R. TAFT.

Kindly advise heating capacity for hot water of upright tubular boiler rated at 35 horse-power. Dimensions are as follows: Circumference, 14 feet 3 inches; diameter of firepot, 4 feet, inside; height between top of grate and crown sheet, 22 inches; has 170 tubes, 1¼ inches inside diameter, and 4 feet 6 inches long. Is rating correct? Also how much glass will boiler carry, with soft coal, easily; also how large flanges should be put on the boiler, 6 inches or 8 inches? In estimating amount of glass the boiler will carry I should want to heat to 60 degrees easily. Houses are now piped for carrying 60 to 70 degrees. Also state size of stack required and freight of same. F. H. K.

—A boiler such as described should heat 4,000 square feet of radiation, and will require a chimney 18 or 20 inches in diameter and 35 feet high. If a temperature of 60 degrees is desired, it can be estimated that one foot of radiating surface in the coils will suffice for three square feet of glass. The size of the flow pipe should be governed somewhat by its length. If it is only a short distance from the boiler to the coils, a 6-inch flow pipe will answer; but for long runs, with the boiler but little below the coils, it will be better to have it one size larger. L. R. TAFT.

How many feet of 2-inch pipe is necessary to heat to 60 degrees, night temperature, a greenhouse 24x100 feet.

Side walls, 4 feet; ridge, 11 feet high; 16-inch glass on sides; one glass gable; weather occasionally 10 degrees below zero? J. W. C.

—To heat a house 24x100 feet, built as described, to 60 degrees, six 2-inch flows and twelve 2-inch returns will be desirable. Two flows and two returns can be upon each of the walls and the others under the benches. The flows for the middle coils can, if desired, be placed overhead. L. R. TAFT.

How much glass will a 48 horse-power tubular boiler heat to 60 degrees; temperature goes below zero quite often? P. BROS.

—It is generally customary to estimate that for each 100 feet of steam radiation, one-horse power in the boiler will be required. Estimating in this way, a 48 horse-power boiler will suffice for 4,800 square feet of radiation, but it will be more economical not to put on more than 3,500 to 4,000 feet of radiation for a boiler of this size. As each square foot of radiation will suffice for six square feet of glass when a temperature of 60 degrees is desired, from 21,000 to 24,000 square feet of glass can be heated with a 48 horse-power boiler. The foregoing is a fair estimate for a zero temperature. When it drops as much as ten or fifteen degrees below zero, a reduction of twenty-five per cent. should be made in the estimate. L. R. TAFT.

In our carnation house of 20x170 feet we have one 2-inch flow and one 2-inch return under each of the three benches. Would a No. 15 Hitchings corrugated firebox boiler be sufficient to maintain a proper carnation temperature with the thermometer outside at 26 degrees (that is the lowest temperature we have in our vicinity)? Our house has been piped with a gradual rise from the boiler to farther end of the house. We use distillate oil for fuel. X.

—For a carnation house 20x170 feet, with an outside temperature of 26 degrees, about 700 feet of radiation will be desirable. While three 2-inch flows would give fairly good results, four would be better, and the same number of returns would be desirable. When the temperature is 30 degrees, or above, three flows and three returns would suffice. If, as I remember it, a No. 15 Hitchings boiler is rated for 1,000 feet of radiation, this would answer very well for heating the house. The system of piping as described should give good results. L. R. TAFT.

The Aster Disease.

(61) Can any of your correspondents inform your readers concerning the cause and prevention of the aster disease, which is fast rendering useless and unprofitable the culture of this beautiful flower? A few years ago everyone grew asters in perfection, without special effort or skill; now the plants appear healthy until near maturity, set all their buds in profusion, and then much of the foliage turns to a whitish color, the flowers become one-sided and do not color up, and the whole development of plant and color ceases, the plant being ruined. Is this through fault of culture, or through the lack of something that can be supplied; and does the seed, as sown, contain the germ of the disease? We planted last season (both seed bed and permanent position) in entirely new ground, with seed purchased from one of our best seedsmen, but the result was that more than one-half of the plants were ruined. If the evil comes from infected seed, is there not a seed-growing locality where the disease does not exist, and where seed can be obtained which will produce healthy plants? SUNNYFIELD NURSERY CO.

—The inquiry of one of your readers relating to the Yellow Disease of asters is answered fairly well in a bulletin by the writer (Bulletin 73, Massachusetts Experiment Station) on the aster disease, in 1902. Copies of this bulletin can undoubtedly still be obtained from the station at Amherst, Mass. The disease referred to has come to be the greatest, and a very severe obstacle in growing this popular flower. It is characterized by the production of yellow, abnormal shoots, and one-sided deformed flowers of the same color, and occurs probably all over the country, having been observed the past Summer in California. As described in the bulletin referred to, this disease is not caused by any insect, fungus or germ, but is what may be called a case of

indigestion in the plant; that is, the plant food materials are not properly digested or assimilated, from some obscure, unknown cause, and an unhealthy growth results.

Asters were grown at Amherst on a large scale for two years and every influence which could be thought of as affecting the diseases was thoroughly tested. In the trial of all the varieties obtainable, over 300 in all, from seed grown in Massachusetts, New York, California, Germany, England and France, no difference was found in the extent of the disease. Seed taken from badly diseased plants gave no worse results than that from the most healthy. The application of various fertilizers, use of different kinds of soil, etc., made no difference with the disease. Other results of interest to aster growers are given in Bulletin 79.

It is the writer's observation that this trouble varies from year to year with the season and is influenced by something in the weather conditions. Experience, both in the East and in California, suggests connection between the rainfall or watering of the plants and the disease. This does not refer particularly to the amount of water furnished, but rather to the manner of application. With regard to rain, it has appeared that sudden, violent showers produce the disease more than steady, gradual rains. The fact that asters grown in pots, boxes or greenhouse benches are very little affected, as seems to be true everywhere, is also connected, apparently, with the difference in drainage or water absorption under such circumstances. The rainless California Summer affords excellent opportunity for the investigation of this disease, and the writer hopes to obtain further information concerning it in the near future.

RALPH E. SMITH.
University of California,
Berkeley, Cal.

Carnation Fair Maid.

(62) Can you tell me if the carnation Fair Maid can be grown in the same temperature as Enchantress?

L. C. P.

—It can.

Carnations in Violet Houses.

(63) Will you please give the name of a good pink, a good white and a good scarlet carnation, to be grown in low violet houses, solid benches? I want good bloomers, which don't grow so very tall, and which are not inclined to bust the calyx. I don't care for very fancy carnations. I would like to hear from some growers who have grown carnations in solid benches. What about Estelle for scarlet? G. T. S.

—The varieties of carnations we would recommend to grow in violet houses would be White Lawson, Mrs. Thos. W. Lawson and the red sport of Maceo. None of these is tall-growing; and while Mrs. Lawson bursts the calyx somewhat, it is, nevertheless, a good one to grow. Estelle would, we think, grow too tall.

Kalamazoo, Mich.

News of the Trade.

John Calder, the east side florist, proposes to retire from active business after the Spring trade and will then offer his place for sale or rent. Mr. Calder, who is getting on in years, will then probably retire to a small farm and take life somewhat easier. He says his florist business ventures have been both successful and satisfactory. He has the good wishes of the local florists wherever he may be.

The Carnation Society's convention at Chicago was attended by John R. Van Bochovs, of this city.

Cinerarians seem to be a leader this year in pot plants, the store windows being well filled with shapely and well bloomed plants which, I am told, are good sellers.

The local papers had quite a long article descriptive of the new greenhouse plant that the Van Bochovs have begun work on, and from the account given no expense will be spared to make them equal to anything in the West. S. B.

ELMIRA, N. Y.—U. S. Marshal William R. Compton has been elected president of the U. S. Cut Flower Company.

Washington, D. C.

News Notes.

One of the finest decorations seen in Washington for some time was done at the New Willard by Small & Sons last Saturday for the Gridiron Club's twentieth anniversary dinner.

David Bisset, the Garret Park violet grower, had the misfortune to have a boiler burst on Wednesday. His violet house was frozen; and on Friday his water tank and windmill were destroyed. Mr. Bisset has had nothing but hard luck these last two years; he has the sympathy of the craft.

W. F. Gude has been elected secretary of the Business Men's Club.

John W. Langdale, assistant parking superintendent, was run over by a wagon while on his way to work on Monday morning; his right leg was broken. M. C.

Indianapolis.

News Notes.

St. Valentine's Day last year was an exceptionally heavy one for florists and many were not prepared for it. A large business is again anticipated this year.

The Indianapolis florists who visited Chicago last week were highly pleased with the A. C. S. exhibition and the hospitality shown them by the local craft.

Representatives of Holland bulb firms have been numerous in this city this week.

Tomlinson Hall Market business has been heavier than at any time since the holidays; all flowers brought there are sold out early in the day.

Sidney Smith, of Baur & Smith, is in Texas visiting his brother. Sidney is in poor health and hopes to be benefited by spending the Winter there. Walter Bertermann is visiting in New York. I. B.

Newport, R. I.

News Items.

The Rhode Island Agricultural College is again making every effort to obtain from the State an appropriation for a greenhouse. At least \$15,000 is needed for this purpose, and it is earnestly hoped by all friends of the institution that this glass will be forthcoming.

A large number of the craft attended the annual celebration in Masonic Hall, observing the birthday of Scotland's poet, Robert Burns.

The Geo. A. Weaver Company are advertising that: "Regardless of reports they will still continue to carry on their business at the big store." Last week it was town talk that their store would be remodeled into a hotel.

Florist Hass visited New York for a few days.

Mr. Hay has been here a week or so representing Henry A. Dreer, of Philadelphia. Ernest Schoepke, booking nursery stock orders, was also here. F. W.

Syracuse, N. Y.

Trade Jottings.

L. E. Marquisee is cutting fine Lady Bountiful and Flamingo carnations, and reports a very fine deep pink sport of Enchantress; also two plants of Flamingo that have sported flowers of a clear salmon.

Bard & Davis have a fine showing of carnations and roses at their establishment on Wilbur avenue. Lady Bountiful and Enchantress being their leaders in carnations.

Bartholomew reports trade as very good, and his stock is all in fine condition.

Peter Kay is sending in very good stock, and expects to be "right there with the goods" right along.

Theodore Miller, of Janesville, reports business as good and is now busy preparing stock for the Spring bedding season.

Thomas Quigley, of Malcolm street, reports good trade; his stock is clean and vigorous, and yielding well.

Wheaton & Hencle are receiving fine pots of Paper White narcissus that are good sellers; also La Touraine tulips in pots and pans from Bard & Davis.

Henry Morris will renovate his store in the near future, putting in a tile window and all the improvements to bring it right up to date. J. B. B.

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New York.

The Week's News.

While an occasional big job in decorative lines crops up, it cannot be said that the retail branch of the business is really what one would expect to find it at this time of the year. It would seem that the largest demand is caused by funeral work, but as the social season will be longer this year on account of the lateness of Easter, many florists are of the opinion that there will be a good busy season yet. At the funeral of Frank Croker, on Friday, the casket cover was composed entirely of violets and gardenias from the store of L. Hart, Madison avenue.

A new wholesale florist firm is opening at 56 West Twenty-sixth street, opposite the Coogan Building. The firm consists of J. Seligman and G. Trippel, both former employees of A. J. Gutman.

Arthur Herrington, of Florham Farms, Madison, N. J., is recuperating from a severe cold which confined him to the house for several days. Mr. Herrington is now busily engaged preparing the matter for his new book on "The Chrysanthemum," which the Or-

The Otto Grundmann Company, of Secaucus, N. J., has been incorporated, to operate a general nursery business. Capital, \$20,000. Incorporators: Hermann Grunderman and Wilhelm Reusch, New York City, and Otto Grundmann, Secaucus, N. J.

J. A. Foley, bookkeeper for N. Leckes & Co., was married on Sunday, January 22, to Miss Butternael, of Newark, N. J. The ceremony was performed in the Church of the Epiphany, this city.

Charles Dards and family left on Tuesday for the South; St. Augustine, Fla., and other noted southern resorts will be visited by the party.

The effort that has been made to have cigar and flower stands on the subway station platforms is evidently going to fall through. The Rapid Transit commission has directed that all such stands be removed, and that nothing shall be sold at these stations excepting newspapers.

U. G. Scollay, of the well-known firm of John A. Scollay, horticultural engineers, Brooklyn, N. Y., has just been re-elected treasurer of the American Society of Heating and Ventilating Engineers at its annual meeting in this

Buffalo.

The Week's News.

J. H. Rebstock, now owner of the former S. B. Smiley place at Lancaster, N. Y., had a damaging fire in the boiler room of the houses on Sunday last, practically ruining the stock for this season and which he has since cared for elsewhere.

The Scott Floral Co., at Cold Springs, the growing houses of which are under the direct handling of Wm. B. Scott, find the various sorts of nephrolepis easily continue to be important with them in plant lines. *Primula obconica* is growing here, for Easter sales, worked up into goodly sized plants, that command a remunerative price. Dutch bulbs, in tulips and hyacinths, are of satisfactory quality as regards forcing, this season.

C. D. Zimmerman has recently accomplished some big tree moving. One specimen, moved over half a mile, included the transportation of its accompanying ball of earth, twelve feet in diameter, and all approximating a weight of over ten tons. He is provided

Cleveland.

News Notes.

It was expected Carnation Day would be prolific of much gain, by both wholesaler and retailer. So far as the former was concerned, it was a success; but, on the other hand, the date falling as it did, on Sunday, put a damper on the retail sales. It was confidently hoped that no discrimination would be made as to the various colors used, and that as proportionately large sales on white and light pink would result, as on dark pink and red; but again there was disappointment and more Lawson colored carnations sold than did all the rest. Monday, however, being a nice bright day, better sales were reported.

On the 26th City Forester Horvath submitted his annual report for 1904, to the Board of Public Service. Mr. Horvath says he has prepared planting plans for Edgewater parkway, and also revised some other plans for Edgewater Park. The much-needed thinning out of the forests in the different parks throughout the park system has been carried on quite vigorously, he says, with most satisfactory results. Planting, he says, was carried on quite extensively, there having been planted about 12,000 hardy trees, shrubs, evergreens and vines; 2,400 bedding plants and 32,000 tulip bulbs. The tulip bulbs and about 5,000 of the hardy trees were purchased, the balance being raised in the city nurseries. About 10,000 trees and plants remain available for planting. The report then deals with details of the work pursued in each of the various parks of the city.

Mrs. Casper Aul, of Lee avenue and Doan street, is very ill.

John Merkel, of C. Merkel & Son, Mentor, O., was in town Monday; he is cutting some good roses and carnations.

Several Cleveland growers were at the Carnation Society's convention; all express themselves as delighted with the trip.

The Dutch are invading our shores again. Valdehysen van Zanten was among the first to reach our city.

O. G.

Louisville, Ky.

News Items.

Our visitors to the Carnation Society's show, were: Jacob Schulz, C. H. Kunzman, David Weller, George Schulz, Mrs. C. B. Thompson and niece. They left Louisville the coldest night we have had for a long time, the thermometer registering several degrees below zero; but as they have returned and give a most glorious report of the pleasures and benefits derived, it was well that they did not let the cold interfere with their trip. Mr. Fuchs had made every arrangement to go, but that evening a plug blew out of his boiler and he would not leave the boiler until it was again in working order and then it was too late for the same train.

The property, which has for so many years been occupied by Nanz & Neuner, as a store, recently changed hands, and at the expiration of their present lease Nanz & Neuner will be compelled to seek new quarters, as the present owners desire to occupy the premises.

McKinley Day was observed to a very limited extent, but the weather conditions were very much against it, Saturday being cold and raw, and Sunday it blew a blizzard. Monday was more favorable, but too cold. Several of the local firms pushed the day somewhat, and with better weather we should have felt the effects.

The employees of the Customs House observed the day best of all.

Jacob Schulz is spending several days in Connorsville, Ind. A. R. B.

FIRES.

LANCASTER, N. Y.—On January 29 the greenhouses of J. H. Rebstock. Loss, \$3,000. It originated under over-heated boiler.

JACKSON, MISS.—On January 26, the greenhouse of W. J. Brown. Loss about \$1,500.

FORT SMITH, ARK.—Fire in the greenhouse of A. Pantet, on Wednesday, January 25, did damage to the extent of \$500.

Fern Bank with Begonia Gloire de Lorraine.

Editor Florists' Exchange:

The fern bank—the subject of the accompanying illustration—was put up in the latter part of July. The begonias were planted on the seventh of August from thumb pots, and although very small and not over-well rooted, they took hold immediately and seemed to fairly revel in their rather novel quarters. While the warm weather lasted the bank was syringed every day, and the begonias stood it with immunity. Owing to the lateness of the season when they were planted they have not had time to develop into large plants, but they are now, and have been for a month, a mass of bloom. The photograph does not begin to do justice to the beauty of the bank. The clusters of bloom of this queen of begonias intermixed with adiantum pteris (several varieties), selaginella, etc., with a perfect mat of lycopodium for a background, can be better imagined than described.

WILLIAM WATT.



FERN BANK WITH BEGONIA GLOIRE DE LORRAINE.

Photographed Dec. 2, 1904

ange Judd Company will publish the coming Spring.

Wm. Elliott & Sons, who for the last twenty-five years have been located at 54 Dey street, contemplate moving on May 1 to 201 Fulton street, a large and roomy store, fully equipped with electric elevators and all other modern improvements.

W. J. McNeff is on the road as salesman for Wm. Elliott & Sons in the place of H. Odell, who is no longer a representative of that house.

William Elliott & Sons, Dey street, have won the suit brought against them by a party who while passing the store recently stepped on a nail which pierced his foot. He claimed \$500 damages. Judge Finn, before whom the case was tried Wednesday last, ruled that the firm was not responsible for the accident, as it had not been shown that they were criminally negligent in looking after the sidewalk.

The Gardeners' Chronicle of America is the name of a new paper to be published in the near future. We understand that the journal will be devoted to private gardeners' interests only, and that Leonard Barron, formerly editor of American Gardening, will be the editor, with offices at corner of Seventeenth street and Fourth avenue.

city. The Engineering Review reproduced a portrait of Mr. Scollay in its January issue.

The florists in and about West Hoboken, N. J., have for some months back been troubled a great deal by thieves. Greenhouses have been broken into and plants and cut flowers carried away time and again. Some of the stolen plants were located recently in a Third avenue store, the proprietor of which admitted having purchased them from a stranger. The growers have organized and the police are giving what assistance they can, and it is hoped that the actual thieves will be caught in the near future. In the meantime it will be well for growers whose greenhouses are at all isolated to keep a strict watch on their premises.

The New Jersey Floricultural Society held its tenth annual dinner in Elks' Hall, Orange, N. J., on Friday evening.

The eighteenth annual dinner of the New York Florists' Club occurs tonight (Saturday) in the St. Denis Hotel. Present indications point to a good attendance and a pleasant evening's enjoyment is assured, as Chairman W. F. Sheridan, of the dinner committee, has spared no pains in arranging for this annual event.

with special heavy truck and akin devices for this work.

W. F. Kasting and W. J. Palmer, the latter accompanied by Mrs. Palmer, were the only local attendants at the Carnation Society's meeting last week, in Chicago.

Mr. Kasting now announces the coming into his control of the growing place and store recently conducted by the E. A. Baur Floral Co., at Erie, Pa., which he expects to continue the conduct of, under a manager there resident.

At a recent meeting of the Florists' Club, the matter of the schedule for the coming Spring show, to be given by a department store here, the Sweeney Co., under the auspices and management of the club, was acted upon as final. The show will occur April 11-14 at the Sweeney store. Prizes amounting to over \$1,200 have been attached to such classes as should be in ample show and supply at these dates, and in which Easter lines of articles are given a leading prominence.

Daniel B. Long was made a committee of one, to act in promoting interest regarding the McKinley Monument Fund for caring for the grounds surrounding the monument, as being conducted from general lines by H. M. Altick, of Dayton, O. VIDI.

Review of the Market

NEW YORK.—Although the demand for roses is such that prices are being maintained at fairly stiff figures, this is more owing to a general shortage of these flowers than to any increased activity in trade.

Bulbous stock of various kinds is now flooding the market, tulips and narcissus being in the majority. If we could only get a spell of warmer weather, so that the street peddlers could ply their vocation, a good outlet would be found for a lot of the cheaper grades of violets and narcissus;

Carnations are very plentiful and going slower, with a tendency to lower prices. If, as some claim the comments in the daily press about the big prices paid for new carnations tend to help the trade in these particular flowers, how is it that we see the prices going down just at this time?

Lilies and lilac are in good supply, with no change in values. We can safely say that roses are the only flowers that are moving satisfactorily, owing entirely to the limited supply at present.

BOSTON.—During the past week little change has taken place in general trade conditions. A very severe snowstorm during the early half of the week prevented either a great demand or allowed a great surplus to get to the city. Roses of all kinds are shortening up in supply. American Beauty, especially, are in demand, and prices, accordingly, have advanced, \$50 to \$60 being quotations for the highest grades. Bride and Bridesmaid, of which some exceptionally fine stock has appeared recently, have also shortened up in supply. Liberty and other fancy varieties are more in demand, but the supply of most of the varieties, like Liberty, or Mme. Abel Chatenay, has always been limited.

Carnations, although still plentiful, have stiffened in price somewhat, \$3, \$4 and \$5 being the general run, although Mrs. Thomas W. Lawson, of which large quantities are now seen, may be had at less.

Violets are nearly a drug; singles were never so plentiful as these days. Bulbous stock of all kinds is rapidly increasing in supply; large quantities of yellow and Paper White narcissus are coming in. Tulips are also much more plentiful. Lilies are abundant, and lily of the valley can be had in any quantity.

PHILADELPHIA.—Roses of choice grades are scarce, but there appears to be an abundance of poor quality around. Carnations are down in price; some of the choice varieties are selling well, but general stock is lower. The top price for violets is 75c. per 100. The commission men, generally, say business is quiet. The fact is there are so many flowers coming to this market that two quiet days cause a large accumulation.

S. S. Pennock is very busy with out-of-town shipments. E. Bernheimer is moving a fair amount of stock. His specialties just now are lilac, white sweet peas and Golden Gate roses. Edward Reid is doing a good shipping business with roses and carnations.

PITTSBURG.—The cold weather the past few weeks has hurt the cut flower trade to some extent, and also had the effect of holding up prices. Roses bring from \$10 to \$15 for good stock; carnations from 3c. up. Bulbous stock is about all that is low in price. The thermometer has been registering around zero for almost a week, with no relief in sight. Carnation sales for McKinley Day were not great, but it was noticeable that red were asked for more than any other color. The Pittsburg Cut Flower Company sent a nice card with President McKinley's picture and a spray of carnations thereon to all of its customers, who placed them on their stands and in their windows. B. L. Elliott, of Chaswick, Pa., is cutting some extra fine roses lately, and his carnations are also first class.

NEWPORT, R. I.—The blizzard of last Wednesday and several small snowstorms have again turned things into real winter. Trade is very good in all lines, considering the deep snow, which renders getting around, either on foot or with team, very slow work. Cut flowers have picked up a little in retail values.

CHICAGO.—Trade in general the past week was not up to expectations, especially as regards McKinley Day. A great deal of stock had been held back for that occasion in anticipation of a brisk demand, at advanced prices; but these failed to materialize; consequently, when business opened up on Monday morning quantities of stock were still in hand which had to be disposed of at a lower price than would have been obtained for it had it come in the regular way. The local retail trade was, generally speaking, not up to that of an ordinary Saturday, and the demand on Sunday was also disappointing.

American Beauty roses are beginning to show the effects of the heavy cuts of the past few weeks, and the supply has shortened up considerably, while there has been no extra heavy demand at any time. Bride and Bridesmaid are not over-plentiful, with prices much the same as previously quoted. Mme. Abel Chatenay is in fair supply. Uncle John is proving a fine favorite here. Liberty with most of the growers is off crop, and the flowers received are not of as fancy a grade as were arriving some time ago.

In carnations, white are not plentiful, while colored stock is equal to the demand; the flowers are of extra quality.

The supply of violets has diminished, while the call has never been sufficient to clear the market for some considerable time.

Lilies are becoming more numerous and are in fair demand. Roman hyacinths and narcissus are not so plentiful as heretofore. Tulips are beginning to arrive in quantity and some extra fine stock is being received, such as La Reine, Proserpine and others; they bring from \$2 to \$5 per 100. Green goods are more plentiful, especially snijlax.

ST. LOUIS.—The market revived somewhat the past week, and, in some flowers, stock became real scarce, the price going up a cent or two. Bulbous stock and violets were in excess of the demand. Business was not any too good, as the extreme cold weather kept customers indoors. Those who had plant decorations to make found it a difficult matter to keep the frost out of their wagons.

Saturday and Sunday, McKinley, or Carnation Day, made big profits to the local trade, both retail and wholesale. Prices at wholesale were \$4, \$5 and \$6, and everybody was looking for pinks. The retail prices were from 75c. to \$2 per dozen, according to location and who the buyer was. The day will have to go on record as one of the busy ones for the florists all over the country.

White roses became rather scarce last week; in fact, all roses seem off crop. American Beauty, fancy, long, are bringing from \$4 to \$6 per dozen; the second and third grades sell best. Shorts go at from \$5 to \$8 per 100. Bride and Bridesmaid are selling at from \$6 to \$8 per 100 for fancy, \$4 and \$5 for firsts, and \$2 and \$3 for seconds. Meteor, Liberty, Golden Gate, Souvenir du President Carnot and Perle des Jardins run about the same as last reported. Violets are selling at 50c. for the best California and 75c. to \$1 for doubles. There are plenty of both kinds in the market.

Bulbous stock keeps piling up each day; prices are difficult to quote on Roman hyacinths and Paper White narcissus. Extra fancy lily of the valley has an estab-

lished price of \$1 per 100; seconds, with poor foliage, bring \$2 and \$3 per 100. Harrisii lilies go at \$10 and \$12.50; callas, at the same price. The demand for this stock is quite good. A few extra fancy tulips are in the market, at \$5 per 100. Freesia, for extra quality, bring \$3 per 100, with the demand much better than for any other bulbous stock. Sweet peas, when good, with long stems, have a brisk sale, at from 75c. to \$1 per 100. Of greens, the St. Louis market has had a good supply since the holidays.

Blooming plants are selling better with the West End florists. Some extra fine lilacs, azaleas, Dutch hyacinths and lilies are seen in the show houses.

INDIANAPOLIS.—Funeral work, decorations and regular counter trade have kept up well during the past week. Stock of all kinds is well used up, and many roses and carnations are received from outside towns. All roses are scarce, particularly Bridesmaid, which are of poor quality. It is almost impossible to obtain more than one or two dozen select at one time. The best Bridesmaid, Bride, Mme. Abel Chatenay and Golden Gate wholesale at \$10 per 100, and retail at \$2 to \$3 a dozen. Liberty are very scarce, at \$10 to \$15 per 100. No trouble is experienced in buying enough American Beauty; 36-inch stems wholesale at \$3 a dozen; 24-inch stems, at \$2 a dozen, and 10 to 16-inch stems, \$1 a dozen.

Carnations, with the exception of white, meet the demand. Fancies, such as Enchantress and Prosperity, bring \$5 per 100. Good grades, such as Mrs. Lawson, sell at \$3 per 100; 75c. to \$1 a dozen is the customary retail price.

While the demand for blooming plants has been poor, the flowers have helped greatly in giving variety to funeral work. Lilacs, primroses, azaleas and rhododendrons have been used in quantity of late in this manner. Growers of bulbous stock readily dispose of it. Daffodils, jonquills, narcissus, Roman hyacinths, lily of the valley and tulips sell at \$3 to \$4 per 100.

Not many extra carnations were disposed of on McKinley Day; although several retailers were heavily supplied with flowers, a large business was not anticipated by many.

Marie Louise violets are to be had in any quantity, at \$1 per 100.

KALAMAZOO, MICH.—We are pleased to note an improvement in trade these past two weeks, business sometimes taking on quite a brisk movement. Last week two weddings of considerable local importance took place, and used up quite a quantity of all kinds of flowers. American Beauty roses, carnations, violets, etc., are quite plentiful, but good tea roses are rather short in supply and have been for a few weeks past. Callas are plentiful and seem to have slow sales. McKinley Day is being well advertised by the local stores, most all showing cards (necrotical) calling the public's attention to the day and date. Considerable numbers of flowers are being worn on the street, which speaks well for the sales.

LOUISVILLE, KY.—The demand for funeral work continues brisk. Weather conditions are much against the production of cut flowers, for it has been very cold, snowy and dark for some time now. By the aid of shipped in stock, the supply of good flowers equals the demand. Prices continue very firm. Bulbous stock is making its appearance slowly, and is quite welcome.

WASHINGTON, D. C.—Business has been exceptionally good this week. The

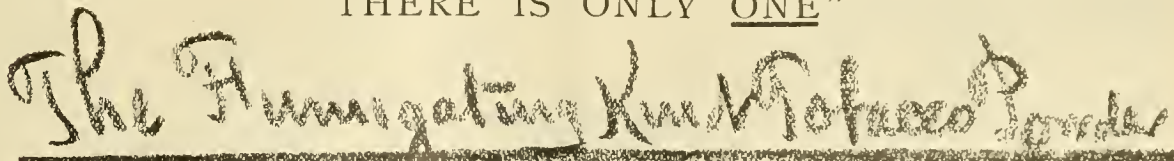
blizzard which visited us in the early part of the week interfered with the out-of-town supply of cut flowers—in fact, for twenty-four hours railroad traffic was paralyzed; consequently, prices stiffened considerably until the outside supply came in. The demand for American Beauty roses has been heavy and the supply of good stock limited; they brought from \$5 to \$10 per dozen; Liberty brought \$4 to \$6 per dozen. The supply of this rose has never been equal to the demand. Bride, Bridesmaid, Meteor, Ivory, Souvenir du President Carnot and Kaiserrin Augusta Victoria realized from \$2.50 to \$4 per dozen. The supply of carnations has fallen off this week. For the choicest varieties \$2 to \$4 per dozen has been asked, while the general run brought 75c. to \$1.50. There has been a good demand for violets, local stock bringing \$1 to \$1.50; New York stock, \$2 to \$3 per 100. Sweet peas are plentiful, at 35c. to 50c. per bunch. Lilac is coming in, with plenty of foliage, and brings from \$2.50 to \$3 per dozen. Lily of the valley is in demand, at \$1.50 to \$2 per dozen. Tulips bring 75c.; jonquills, from 75c. to \$1 per dozen; gardenias, from 50c. to 75c. each; narcissus, Paper White, and majonnette, 50c. to 75c. per dozen. Polinesias realize from \$2 to \$3 per dozen. All kinds of greenery are getting scarce. Adiantum cuneatum fronds bring from \$1.25 to \$1.50 per 100; Asparagus plumosus, \$2 to \$3 per 100. Dutch hyacinths in pans are not selling well, at 25c. to 50c. each. Azaleas are in demand, at \$2 to \$5; cyclamen, 50c. to 75c., and Chinese primulas, 35c. to 75c. each.

BUFFALO, N. Y.—Trade in general has about held its own of late. Compared to past seasons, "Carnation Day" received much advance speculative interest, it being hard to plan on which day the business would be done and the wearing of the blooms he observed. Some of the prominent-located Main street florists bid for business freely in appropriate window displays as early as Saturday, on which day some trade pertaining to McKinley Day was ushered in. It remained, though, for Sunday to be customers' day, and in spite of quite cold wintry conditions and absence of the business element from the thoroughfares on that day, a general summing up seems to tally quite favorably in extent of work done. The retailers kept their places open clear through the day, and while all demands were supplied, stocks were generally cleaned up. The wholesale supply was generally moved. Prices to the consumer were 10c. each, as a rule, some also selling by the dozen for \$1, while a few fancy kinds went at 15c. each. Some retailers now incline almost to enthusiasm in expecting interest of a voluntary character to pervade the public sufficiently that the carnation-wearing custom on this day will further establish and add to itself, while others are sceptical on this point.

CINCINNATI.—Stock is scarce and prices are holding steady. The demand for carnations on Saturday was active and all stock held by the wholesalers sold. The retail trade sold many carnations, but still have many left. Had our late President's birthday been on any day but Sunday, we should have had a different report to make. Bride and Bridesmaid roses are very scarce and sell the best. Green goods are selling well, at the usual prices.

WORCESTER, MASS.—Our florists complain somewhat of poor business since the holidays, but during the last two weeks there has been a brightening up. Several large funerals and banquets have raised their drooping spirits.

"THERE IS ONLY ONE"



What a Few Say, All That Use It Say

Testimonials from Mt. Sterling, Ky., Wallingford, Conn., Montclair, N. J., and Marion, Ind. regarding the effectiveness of Fumigating Kind Tobacco Powder.

FREE trial five-pound bag will cost you nothing more than the express charges on it. The trial bag will prove our assertion that it is the most effective, cleanest and quickest, as well as the cheapest (10 cents per 100-foot house) article to fumigate with.

THE H. A. STOOHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York

RED SPORT
The Great Commercial Red Carnation
If interested in a Christmas red, a red that gives a heavy cut and no splits all winter long, read our advertisement in last week's FLORISTS' EXCHANGE, page 97, or write
A. B. DAVIS & SON, Purcellville, Va.
Mention the Florists' Exchange when writing.

Carnations
F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

THE ONLY WHITE CARNATION
(Tried 3 years and not found wanting!)
"THE QUEEN"
Rooted cuttings, \$2.50 per 100; \$22.50 per 1000.
Unrooted cuttings, \$1.50 per 100; \$12.50 per 1000.

HENRY EICHHOLZ, Waynesboro, Pa.
Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings
BIG STOCK
ORANGE TREES Write for Price List
The Philippi Nurseries, PHILIPPI BROS. Props.
ROCKLIN, CAL.

MODEL EXTENSION
Carnation Supports
ALSO
Wire Rose Stakes and Tying Wire
GOE BROS., Manufacturers, 226 North 9th St. Brooklyn, N. Y.
Mention the Florists' Exchange when writing.

Carnations SELECTED ROOTED CUTTINGS
CLEAN, HEALTHY STOCK FROM SAND AND SOIL
per 100 1000
Enchantress..... \$ 3.50 \$ 30.00
Queen..... 2.50 20.00
Lawson..... 2.00 15.00
Walcott..... 2.00 15.00
Queen Louise..... 2.00 15.00
Genevieve Lord..... 1.25 10.00
Floriana..... 1.50 12.50
Fiancee..... 12.00 100.00
Careful packing. Stock guaranteed satisfactory in every way.
ROBERT C. PYE NYACK, N. Y.
Mention the Florists' Exchange when writing.

WM. PENN
READY NOW. NO WAITING.
A pleasing shade of pink, on a stiff, wiry stem. Growth clear and upright, no useless foliage. Flowers large enough for all ordinary purposes. Will produce more flowers per square foot than any Carnation now grown.
Worth growing by the thousand, but rather than have you miss trying it, I will mail, free of charge, 25 rooted cuttings for \$2.50.
\$10.00 per 100; \$75.00 per 1000; 250 for \$18.75
Send for List of Other Varieties.
Queen Louise and Lillian Pond at \$10.00 per 1000.
Floriana and Harry Fenn at \$12.50 per 1000.
ALBERT M. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

Variegated LAWSON
Sport of Mrs. Thos. W. Lawson. The flower is of the Mrs. M. A. Patten type and can barely be distinguished from it.
Rooted Cuttings
\$12.00 per 100; \$100.00 per 1000
JOHN REIMELS
CEDAR LANE, WOODHAVEN, L. I., N. Y.
Mention the Florists' Exchange when writing.

THE BEST IN NOVELTIES

It will be to Your Interest to Invest in All or Part of the following **STERLING NOVELTIES OF THE YEAR**, as they will lead in future Collections:
Chrysanthemums. Mink Queen, Brightburst, King's, Okoloma and Fidelity. Also the best from other raisers in this country and abroad.
Carnations. Earliest delivery in Fiancee, Fred Burki, Chicago White, Phyllis, The Cardinal, Eclipse, Richmond Gem, Red Lawson and Wm. Penn, at introductory prices and date of delivery.
Granulums. Onona, the Double Mrs. E. O. Hill; SNOW QUEEN, the best Single White Bader.
Begonia. Rex. Seven distinct and beautiful varieties.

Also Many Other Novelties.
Fully described in our Catalogus for 1905.
NATHAN SMITH & SON, - Adrian, Mich.
Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON
JOHN BURTON, Receiver.
ROSES, PALMS, CROTONS
CARNATIONS and Noveltes in DECORATIVE PLANTS
Market and 49th Sts., PHILADELPHIA, P. A.
Mention the Florists' Exchange when writing.

Carnations
Unrooted Cuttings of good business varieties. Fair Maid, Boston Market and Queen, \$10.00 per 1000. 250 at 1000 rate. Cash.

STEPHEN CHASE, Nashua, N. H.
Mention the Florists' Exchange when writing.
J. D. THOMPSON
CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty
CARNATION Rooted Cuttings
per 100 Per 1000
Flamingo..... \$6.00 Prosperity..... \$2.00
Enchantress..... 3.00 Wolcott..... 1.50
Estella..... 2.00 Harlowarden..... 1.50
Lawson..... 1.50 Crane..... 1.50
Queen..... 1.50 Queen Louise..... 1.50
Boston Market..... 1.50 Hill..... 1.25
Her Majesty..... 1.50 Joost..... 1.25
Strong stock. Satisfaction guaranteed. Special prices on large quantities. Cash.
SMITH & GANNETT, - Geneva, N. Y.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS
CARNATIONS
per 100 1000
Prosperity..... \$2.00 \$15.00
Lawson..... 2.00 15.00
Maceo..... 1.50 15.00
Queen Louise..... 1.50 15.00
Gov. Walcott..... 1.50 15.00
Mey Naylor..... 1.50 15.00
Joost..... 1.25
Eldorado..... 1.25
Bradt..... 2.00 20.00
Enchantress..... 3.50 35.00
Scott..... 1.25
Grafted Bride and Bridemaid Roses,
\$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR
Southport, Conn.
Mention the Florists' Exchange when writing.

RED LAWSON
Sport from Mrs. Thos. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's away ahead of all the reds.
Prices, per 1000 \$75.00; per 100 \$10.00. 250 at 1000 rate.

ROOTED CUTTINGS
Par 100 Per 1000
FAIR MAID..... \$2.00 \$12.50
QUEEN..... 2.00 15.00
BOSTON MARKET..... 2.00 15.00
LAWSON..... 1.50 12.50
LAWSON..... 1.25 10.00
WHITE LAWSON..... 5.00
MRS. ROOSEVELT..... 1.25 10.00
Satisfaction guaranteed or money refunded.
Quidnick Greenhouses, Anthony P. O., R. I.
J. H. CUSHING, Prop.
Mention the Florists' Exchange when writing.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI
The Most Magnificent Tree Fern in Cultivation.
Extra Large Specimens.
12 in. pots..... \$15.00 each; \$25.00 per pair
10 in. pots..... 5.00 each; 9.50 per pair
8 in. pots..... 2.75 each; 32.00 per doz.
7 in. pots..... 1.75 each; 20.00 per doz.
Adiantum Cuneatum, 4 in..... \$15.00 per 100
Adiantum Rhodophyllum, 4 in. 20.00 per 100
Adiantum Rhodophyllum, 3 in. 12.00 per 100

ANDERSON & CHRISTENSEN, Telephone Call 14 F. Short Hills, N. J.
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CARNATION PLANTS

From 2 inch pots.
Mrs. Fisher, for Summer bloom, strong, \$2.50 per 100.
Genevieve Lord, Queen Louise, \$2.50 per 100.
Rooted Cuttings of Genevieve Lord, \$1.00 per 100; unrooted \$'c. per 100.
Cash with order.

WM. KEIR, Pikesville, Md.
Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Now Ready
Send for price list of all the new and standard sorts.

WILLIAM SWAYNE, Box 226, Kennett Square, Pa.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS
CARNATIONS

Per 100 Per 1000
Enchantress..... \$3.00 Floriana..... \$1.50
Lawson..... 2.00 Morning Glory..... 1.50
Queen Louise..... 2.00 Gov. Roosevelt..... 1.50
May Naylor..... 1.50
Strong healthy stock. Satisfaction guaranteed. Cash with order, please.
JEWETT CITY GREENHOUSES, Jewett City, Conn

Look Here

CHRYSANTEMUM STOCK PLANTS
See my advertisement on page 680 of issue of December 3, for varieties and prices, or write me.

CARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$2.00 per 100, \$15.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Harry Penn, Harlowarden, Prosperity, Fair Maid, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.50 per 100, \$30.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000.

Boston Ferns, from benches, good for 5 in. 6 in., or 7 in. pots, 25c., 35c. and 50c.

JAMES E. BEACH, 2019 Park Avenue, Bridgeport, Conn.
Mention the Florists' Exchange when writing.

ROOTED
Carnation Cuttings

All orders filled in rotation.
Per 100
Mrs. M. A. Patten, Var..... \$6.00
White Lawson..... 5.00
Flamingo, scarlet..... 5.00
Albatross, white..... 5.00
Enchantress..... 3.00
Queen, white..... 3.00
Boston Market, white..... 3.00
Queen Louise..... 2.50
Lawson..... 2.00
J. H. Manley, scarlet..... 2.00
Challenger..... 2.00
Write for prices on large lots. 5 per cent. discount for cash with order.

JAMES D. COCKCROFT, Northport, N. Y.
Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

Per 100 Per 1000
Enchantress..... \$3.50 \$30.00
Fair Maid..... 2.50 20.00
Queen..... 3.00 25.00
Queen Louise..... 2.00 15.00
Lawson..... 2.50 20.00
Cressbrook..... 2.00 15.00
Challenger..... 2.00 15.00
Maceo..... 2.00 15.00
H. Fenn..... 3.00 25.00
Prosperity..... 2.50 20.00
Geo. M. Bradt..... 3.00 25.00
FIANCEE..... 12.00 100.00
C. WARBURTON, Fall River, Mass.
Mention the Florists' Exchange when writing.

Rooted CARNATIONS Clean and Cuttings Healthy

Per 100
Mrs. M. A. Patten..... \$9.00
Nelson Fisher..... 7.00
Enchantress..... 3.00
Walcott, Boston Market, J. H. Manley, Maceo..... 2.00

SIDNEY LITTLEFIELD, No rth Abington, Mass
Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.
White per 100 1,000
Queen..... 2.50 20.00
Queen Louise..... 4.00
Boston Market..... 2.00 15.00

Pink
Nelson Fisher..... 6.00
Ethel Ward..... 4.00
Enchantress..... 3.00 25.00
Lawson..... 2.00 15.00
Fair Maid..... 2.00 15.00

Crimson
Harlowarden..... 2.50 20.00

Variegated
Judge Hinchdale..... 4.00
Prosperity..... 2.00 15.00

S. J. REUTER, Westerly, R. I.
Mention the Florists' Exchange when writing.

PROSPECTOR
RED SPORT FROM MACEO

Color equal to Estella, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market, producing more blooms to the square foot than any variety now grown.

It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz.
Easy grower, free from diseases, and, like its parent, can be planted close, as there is no surplus green, every shoot producing a flower.
We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

COME AND SEE THE STOCK GROWING
H. W. FIELD, Northampton, Mass.

Mention the Florists' Exchange when writing.

Peter Fisher
CARNATIONS
Ellis, Mass.

Mention the Florists' Exchange when writing.

Carnation Cuttings

Per 100 Per 1000
Enchantress..... \$4.00 \$30.00
Queen..... 3.00 25.00
Fair Maid..... 3.00 25.00
Harry Fenn..... 3.00 25.00
M. A. Patten..... 6.00 50.00
Queen Louise..... 2.00 15.00
Lawson..... 2.00 15.00
Walcott..... 2.00 15.00
Manley..... 2.00 15.00
Estella..... 2.00 15.00
Our stock is first-class, and we guarantee our cuttings to be all well-rooted. Orders from parties unknown to us must be accompanied by cash or satisfactory reference.
THE LEWIS CONSERVATORIES, MARLBORO, MASS.
W. L. LEWIS
Mention the Florists' Exchange when writing.

LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an unintroduced seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 45 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.

WEST GROVE, PA.

Mention the Florists' Exchange when writing.

GERANIUMS Single and double Grant. Nutt. Hill, B. Poitevin, J. Viand. Favorite, J. Doyle. From 2 1/2 in. strong, \$2.00 per 100; \$18.00 per 1000. R. C. all ordered for this month. Selvia and Achyraochea, from sand, \$10.00 per 1000. Cash please.

JAS. AMBACHER, West End, N. J.
Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Merstham Yellow, White Coombes, Emily Milham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Dreckham, the cup winner, 76c. each; \$7.60 per dozen. Send for list.

CHARLES H. TOTT, MADISON, N. J.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

Salvia.....	Per 100
Vinca Variegata.....	\$1 00
Giant Double Sweet Alyssum.....	1 00
Heliotrope, dark.....	1 00
Coleus, 16 varieties.....	1 50
Ageratum, Pauline and Gurney.....	60
Fuchsias.....	75
Double Petunias.....	1 50
Vinca Variegata, 3 in. pots.....	4 00
Ivy Geraniums and Mme. Sallerol, 2 in. pots.....	2 60

ERNEST HARRIS, DELANSON, N. Y.
Mention the Florists' Exchange when writing.

SHAMROCK

...IRISH...

Strong and fine plants. Better order early. \$4.00 per 100; or 60 cts. per doz., by mail.

Extra strong and fine Stock ready for 3 inch pots. No better grown.

Lobelia. Emperor William, finest dwarf dark blue, grown from cuttings. \$2.00 per 100.
Heliotropes. Light and dark. \$2.00 per 100.
Lantanas. Pink and yellow. \$3.00 per 100.
Ageratum. "Gurney," best dwarf blue. \$2.00 per 100.

XXX Seeds as advertised in THE FLORISTS' EXCHANGE JANUARY 28.

CASH. Extras added liberally.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses.
Mention the Florists' Exchange when writing.

CYCLAMEN

SPLENDENS GIGANTEUM HYBRIDS.

My well-known strain in bud and bloom. Well-grown stock from 6 in. pots, \$2.50 per doz., \$20.00 per 100.

Seedlings, twice transplanted, from lists, in five true colors, \$3.00 per 100, \$25.00 per 1000.

ASPARAGUS

Plumosus Nannus, fine plants from 2 1/2 in. pots, \$3.00; from 3 in. pots, \$6.00; from 3 1/2 in. pots, \$8.00 per 100.

Satisfaction Guaranteed

PAUL MADER, East Stroudsburg, Pa.

Mention the Florists' Exchange when writing.

SHAMROCK

Something new! From cemetery of Downpatrick in Ireland. Plants from 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000. 250 at 1000 rate. Cash with order. Order early, as stock is limited, 600, doz. By mail.

I. D. HARCOURT'S SON, WAPPINGERS FALLS, N. Y.
Mention the Florists' Exchange when writing.

GERANIUMS

2 1/2 in. fine stock, \$2.25 per 100
HELIGTROPE, 2 1/2 in., \$2.00 per 100.
COLEUS, 2 1/2 in., \$2.00 per 100.

BOSTON FERNS, 3 in. to close out, \$3.00 per 100
Cash with order, please.

W. H. PARSIL, Summit, N. J.
Mention the Florists' Exchange when writing.

PANSY PLANTS

Large flowering.....	Per 100
300 Pelargoniums, mixed 2 in. pot....	\$0.60
Asparagus Plumosus Nannus, small plants.....	1.75
Geraniums, 10 Vars, 2 and 2 1/2 in. pot..	2.00
Alternantheras, red and yellow, March 1	2.60
Asparagus Plumosus Nannus Seed, February, \$5.00 per 1000.....	.76
Coleus, 10 Vars, 2 in. pots, March 1.....	2.00

Cash
JOS. H. CUNNINGHAM, Delaware, Ohio
Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN.
Fine stock, choice colors. Large plants, in bud and bloom, \$1.00 per 100. Smaller sizes, from cold frames, \$3.50 per 1,000, by express. Small plants, by mail, 76 cts. per 100. Seed, \$1.00 per pkt.; \$5.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box Southport, Conn.
254.
Grower of the Finest Pansies.

Mention the Florists' Exchange when writing.

GERANIUMS

ROOTED CUTTINGS
Fifteen varieties at \$10.00 and \$12.60 per 1000.
Send for complete price list of Geraniums and Geraniums.

ALBERT M. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

CINERARIAS

4000, 3 in. pots, very strong, medium large flower-
ing, \$3.50 per 100.

Asparagus Plumosus, 3 in., \$5.00 per 100.

CHRYSANTHEMUMS

Stock Plant.
Polly Rose, Willowbrook, Montmort, Pacific, Morel, Appleton, Mand Dean, Ivory, white and yellow, Bonnafton, Golden Wedding, Jerome Jones, \$5.00 per 100.

J. D. BRENNEMAN, Box 24. HARRISBURG, PA.
Mention the Florists' Exchange when writing.

GERANIUMS

10 pots, soil easily shaken off to ship. Thrifty young plants. Best double bedders, \$15.00 per 1000. Send for full list, etc. New Double, La Croix, intense scarlet; M. Katy, clear pink, first-class every way, \$4.00 per 100.

COLEUS R. O., Red, Yellow and other distinct colors, \$6.00 per 1000. Fancy, all bright colors, an extra choice selection, \$5.00 per 1000. Giant, large velvety leaves, over 20 varieties, grand colors, \$1.00 per 100.

DANIEL K. HERR, LANCASTER, PA.
Mention the Florists' Exchange when writing.

Vinca Variegata

4 in. pots, \$6.00 per 100.
BOSTON FERNS Floes plants, 5 in. pots, 20c.; 4 in. pots, 15c.

Nephrrolepis Fosteriana, fine, 4 in. pots, 15c.
T. W. A. SMITH, Biddeford, Me.
Mention the Florists' Exchange when writing.

Easter Plants

A SPECIALTY.

Have an immense stock this year. In bloom at Easter time.

Spiræa Compacta, Floribunda, Japonica and Gladstone.

Have three houses full of choice Azelea India, 1500 Mme. Van der Cruysen among them. All sizes and prices; 75c. to \$1.00 and up. Hydrangea Otaksa, Cineraria Hybrida 6 in. pots. Harrisli and Japan Lilies by the 1000. White Dahlias. Ficus Elastica, 6 to 1000. In pots, \$6.00 to \$9.00 per doz. Araucari Excelsa, 7 in. pots, 26 ins. high, \$1.50 each. Hyaclinths and Tournesol Tulips, Van der Daffodils, American Beauty, Bride and La France Roses.

Everything of good quality at lowest cut prices. Watch for EASTER advertisement.

GODFREY ASCHMANN, 1012 Ontario St Philadelphia, Pa
Wholesale Grower and Importer of Pot Plants.
Mention the Florists' Exchange when writing.

WHAT DO YOU WANT?
2000 Hydrangea paniculata Grandiflora, 3 ft. 3c 1 ft. 5c. 2000 Hydrangea Otaksa, for 4 in., 6c 3 in., 4c. 2000 Spiræa Anthony Waterer, 2 year strong, bushy, 6c; medium, 4c. 1000 Gnat Pauciflora, 3 year, heavy, 10c. Clematis Jascmanni, 2 year old, very fine, 20c.; medium, 15c. 10 Ampelopsis Veltchii, 2 year, field grown, 8c; 40 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyane field-grown, \$3.00 per 100. 5000 best shrubs or vines, dahlias, etc. Send for list.
BENJ. CONNELL, West Grove, Pa
Mention the Florists' Exchange when writing.

VIOLETS

Marie Louise, clean and healthy in every partic-
lar, \$5.00 per 100; \$45.00 per 1000. Cash with ord.
W. J. CHINNICK, Trenton, N. J.
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CYCLAMEN

Once transplanted ready March 1. Set of only select flowers and choicest stock; none better. \$2.00 per 100; \$18.00 per 1000.

C. WINTERICH, DeFrance, Ohio
Mention the Florists' Exchange when writing.

HOLLYHOCKS—Choice Seed

We offer superb, separate single colors, 8 kind 90c. per oz. We offer superb single colors, 8 kind mixed, 80c. per oz. Double Hollyhocks in separate colors, 90c. per oz. Double Hollyhock 6 varieties mixed, 80c. per oz. Hollyhocks, strob field plants, double colors, \$5.00 per 100. Holl hocks, strong field plants, single colors, \$5. per 100. Cash with order, please. **JOH CHARLTON & SONS, Rochester, N. V.**
Mention the Florists' Exchange when writing.

COLEUS

ROOTED CUTTINGS

Verschaffeltii, Fire Brand, Golden Queen Dickwiths Gem, Lord Palmerston, Queen Victoria and Fancies, 80c. per 100; \$8. per 1000.
Golden Bedder (original) and Hero 75c. per 100 \$8.00 per 1000. A discount of 10 cent. allow on 10,000 or more Coleus. More liberal discount on large orders.

AGERATUM, Princess Pauline and Stei Gurney.
SALVIA, Splendens and Jean Revocal, root cuttings, 75c. per 100; \$3.00 per 1000.

VINCA VARIEGATA, 3 in. pots, \$5.00 per 100
FRANK A. PIERSON, Cromwell, Conn
Mention the Florists' Exchange when writing.

SOUTHERN SMILAX

Choice stock, full weight, 60-lb. case, \$8.00; 25-lb case, \$3.25.
GALAX—Brilliant bronze or green, selected, \$1 per 1000; \$3.75 per 5000.
LEUCOTHOE SPRAYS—Green or bronze, \$1 per 100; \$7.50 per 1000.

Sphacelium Moss—Large bale, \$1.75; by freight \$2.00. Green Sheet Moss—Per bush, sack, \$2.
All kinds of Florists' Supplies.
L. J. Kreshover, 112 West 27th Street, New York
Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION
Price, \$3.50
A. T. DE LA MARE PTG. & PUB. CO. LTD.
4 DUANE STREET, NEW YORK

HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

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Special facilities for handling large orders. Write, Wire or 'Pho
E. A. BEAVEN, Evergreen, Alabam

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 Open at 187 Mad. Sq. 8 A. M.
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 Prompt Payments.
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CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.
 Coogan Building NEW YORK
 Open every Morning at Six o'clock for the Sale of
 Cut Flowers
 Wall Space for advertising purposes to Rent
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Wholesale Florist
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 Telephone No. 325 Madison Square.

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Always ready to receive Fine Stock
WILLIAM H. GUNTHER
 30 West 29th Street
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 ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

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 To be disseminated 1906. Also a complete line
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All Choice Cut Flowers in Season

ALFRED H. LANGJAHR
 55 West 28th St., New York
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 BUY FROM SHIP TO TRY
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 Receivers and Shippers of
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 Madison Square
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 Beauties, Meteors, Brides and Bridesmaids are the leaders.
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

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 SPECIALTIES - Violets, Carnations and Roses
 Shipping orders receive prompt attention. Consign-
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CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable
 Novelties. We employ competent
 florists in our pack-
 ing department, and owing to our long experience in shipping we guarantee out-of-town customers that they
 will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

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WHOLESALE COMMISSION FLORIST
 Receiver and Shipper of all varieties of Cut Flowers
 Telephones: { 2200 Madison Square 57 West 28th Street, NEW YORK
 { 2201 Madison Square

Wholesale Prices of Cut Flowers, New York, February 3, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—specials	50.00 to 100.00	Carnations	Inf' grades, all colors.....	.75 to 1.50
	" extra	20.00 to 30.00		White.....	1.50 to 3.00
	" No. 1	15.00 to 20.00	STANDARD	Pink.....	1.50 to 3.00
	" No. 2	6.00 to 8.00	VARIETIES	Red.....	1.50 to 3.00
	" No. 3	3.00 to 4.00		Yel. & Var..	1.50 to 3.00
	Bride, 'Mald, fancy—spe'	12.00 to 15.00	*FANCY—	White.....	3.00 to 4.00
	extra	8.00 to 10.00	(*The highest	Pink.....	3.00 to 4.00
	" No. 1	4.00 to 6.00	grades of	Red.....	3.00 to 4.00
	" No. 2	3.00 to 4.00	standard var.)	Yel. & Var.	3.00 to 4.00
	Golden Gate.....	3.00 to 15.00	(NOVELTIES.....	.....	5.00 to 6.00
	Liberty.....	5.00 to 100.00	LILY OF THE VALLEY.....	.....	1.00 to 3.00
	Meteor.....	3.00 to 8.00	MIYONNETTE, ordinary.....	.....	2.00 to 4.00
	Mme. Abel Chateau.....	2.00 to 10.00	..... fancy.....	.....	6.00 to 15.00
ADIANTUM.....	.....	.50 to .75	NARCISSOS, Paper White.....	.....	1.00 to 2.00
CROWNEANUM.....	.....	.50 to 1.50	" Golden Spur.....	.....	2.00 to 4.00
ASPARAGUS.....	.....	25.00 to 50.00	" Ordinary Yellow.....	.....	1.00 to 2.00
" Sprengel, bunches	.....	15.00 to 35.00	" Double Yellow.....	.....	3.00 to 4.00
CALLAS.....	.....	10.00 to 12.00	PANSIES, per dozen bunches.....	.....	.25
CATTLEYS.....	.....	35.00 to 50.00	ROMAN HYACINTHS.....	.....	1.00 to 1.50
CYPRIPEDIUMS.....	.....	6.00 to 12.00	SMILAX.....	.....	10.00 to 12.00
DAISIES.....	.....	.50 to 1.00	STOCKS, per bunch.....	.....	.05 to .10
FREESIAs, per bunch.....	.....	.25	TULIPS.....	.....	2.00 to 4.00
LILAC, per bunch.....	.....	.75 to 1.00	VIOLETS.....	.....	.35 to .50
LILIES.....	.....	10.00 to 12.00	" specials.....	.....	.60 to .75

WALTER F. SHERIDAN

Wholesale Florist
 Telephone, 902
 Madison Square
 39 WEST 28TH ST., NEW YORK
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
 Meteor, Lily of the Valley, Carnations
 Telephone, 1998
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JOHN I. RAYNOR, 49 West 28th St., NEW YORK

EDW. C. HORAN

Receiving Daily
 Fine
 PRES. CARNOT
 KAISERINS
 METEORS
 BEAUTIES
 Etc.
 55 West 28th Street
 Telephone, 421
 Madison Square
NEW YORK
 CUT FLOWERS AT WHOLESALE
 Mention the Florists' Exchange when writing.

St. Louis.
News Notes.
 Recent visitors were: Arnold Ringier, who represents W. W. Barnard & Co., Chicago; W. Hageman, New York, who reports a good bulb trade; and J. Stern, Philadelphia, selling florists' supplies.

The local trade extended to Robert Beyer their sympathy on the loss of his youngest son, Robert, who was burned to death as a result of playing with matches found in his father's greenhouse. Mr. Beyer himself was severely burned about the hands, trying to save his child. The funeral took place on Saturday from the family residence, 3619 So. Grand avenue. A number of the craft attended.

Joseph Houser, Webster Groves, lost his greenhouse the past week by fire. Mr. Houser is a member of the local club. Henry Berning, to whom he consigned his stock, is making a collection among the trade to help Joe out so as he can rebuild this Spring.

Theo. Miller, Fred C. Weber and John Cannon were the first to return from the Carnation Society's meeting in Chicago. They report a good time and a fine show. The remainder of the St. Louis delegation will stop over at Fort Wayne, New Castle, Richmond and other places in Indiana; they were expected home Tuesday. What they saw will be related at the club meeting next Thursday afternoon.

President Juengel, of the Florists' Club, expects a large attendance at the club meeting next Thursday. Business of importance will be transacted. There will also be a big display of new carnations from both local and outside growers. Fred Meinhardt, one of the committee who attended the Chicago show, has been promised a large display from outside sources. Chairman Beneke, of this committee, tells me that a number of questions have been sent him to be answered at the meeting. Among those are: "What should be the requirements of a new carnation to entitle it to a certificate of merit from our club?" "Which was the best pink, white, or red carnation for commercial purposes seen at the Chicago show?" "Which of the new varieties at the Chicago show is the best for our local growers to buy?" "The exhibition in general, from a retailer's standpoint, for the benefit of the growers." The committee has assigned these questions to J. F. Ammann, John Stiedel, A. Jablonsky and Fred C. Weber to answer.

Edward Troy, who was F. W. Taylor's chief clerk in the departments of agriculture and horticulture at the World's Fair, has accepted a position as chief clerk in the Bureau of Plant Industry, at Washington, D. C. Mr. Troy will leave St. Louis February 15 with his family to begin his new duties.

H. Weber & Sons at Nursery Station, St. Louis Co., are about to let contracts for two new greenhouses, each 25x250 feet. Mr. Weber states that the firm will grow roses next season for the local trade.
 ST. PATRICK.

PORTLAND, ORE.—George Garrecht, formerly of Jersey City, N. J., is now foreman of W. S. Sibson's Rose Nursery here.



Telephone Call:
 756 Madison Sq.
 Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION
 Price, \$3.50
A. T. DELA MARE PTG. & PUB. CO. LTD.
 3 to 5 Duane St., N. Y.

The Florists' Exchange

FANCY CARNATIONS

A STRONG LEADER WITH US

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White Lilac, Gardenias, Orange Blossoms, Daffodils

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EDWARD REID Wholesale Florist

1526 Ranstead Street, PHILADELPHIA Bet. Market and Chestnut Streets Choicest Stock Always on Hand Telephone 1-42-26-A.

Boston.

The Week's News.

McKinley Day made little or no impression in this city, and many of the stores that had expected a larger sale of carnations on that day were disappointed.

The partnership between Warren H. Manning and J. Woodward Manning has been dissolved, and the landscape business heretofore carried on by them will be continued by Warren H. Manning under the title of landscape designer.

J. Woodward Manning has purchased the goodwill, all rights, title and stock of the Reading Nursery, which was established in 1854 by his father, the late Jacob Manning. The business will be continued under the style of the Reading Nurseries and will cater to both the wholesale and retail trade.

Messrs. Sim, Patten and Fisher returned from Chicago Monday highly pleased with their trip and the success of the Carnation Society's convention generally. Messrs. Nicholson and Peirce extended their trip by way of Richmond, Lafayette, Cincinnati and New York.

W. W. Rawson will be the speaker at the next meeting of the Gardeners and Florists' Club February 21. The subject will be: "Vegetables Under Glass."

Winifred Rolker, New York, was a visitor this week. J. W. D.

"Standard for Quality"

GALAX LEAVES, LEUCOTHOE SPRAYS GREEN SHEET MOSS

WM. G. SMITH, Marion, N.C.

Sold in New York by L. J. Kreschover; Philadelphia, S. S. Pennock; Buffalo, Wm. F. Kasting; Albany, H. L. Menard; Pittsburg, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Renne & Plio.

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MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000. DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.

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THE AMERICAN CARNATION

Price, \$3.50

A. T. DE LA MARE PTG. & PUB. CO. LTD.

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J. B. MURDOCH & CO Wholesale Florists

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WM. J. MOORE Wholesale Florist

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Wholesale Growers of CUT FLOWERS Prompt attention given all orders. WORCESTER, MASS Mention the Florists' Exchange when writing.

Headquarters in Western New York



For ROSES, CARNATIONS And all kinds of Seasonable Flowers.

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ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS

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GIVE US A TRIAL WE CAN PLEASE YOU

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Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Boston Jan. 31, 1905, Phil'delphia Feb. 1, 1905, Baltimore Jan. 18, 1905, Buffalo Jan. 31, 1905, and Pittsburg Jan. 24, 1905. Rows include various flower types like Beauty, Bride, and various Carnations.

BOSTON, MASS.

Asparagus Plumosus Mignonette Chrysanthemums Lily Marlisi Brides, 'Mals American Beauties

WELCH BROS.

PROPRIETORS CITY HALL CUT FLOWER MARKET 15 PROVINCE ST.—9 CHAPMAN PL.

Kaiserslins Violets Carnots Orchids Valley Carnations

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6288 Mention the Florists' Exchange when writing.

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and ILLUSTRATIONS that print EASILY. That's the kind we make—have been since '73.
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Pulverized. Free from all Adulteration
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EIGHT MILLION Hardy Cut Ferns



\$1.25 per 1000, no fees.
 Five thousand barrels of Sphagnum Moss, 60 cts. per bbl.
 All orders by mail or dispatch promptly attended to.
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 Box 241 Hinsdale, Mass.
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FANCY OR DAGGER FERNS

\$1.25 per 1000.
 GALAX, brilliant bronze or green, 75c. per 1000, \$8.50 per case of 10,000. Laurel Festooning, hand-made, full sizes, 4c., 5c. and 6c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.
 Branch Laurel, 35c. per large bundle. Southern Wild Smilax, \$5.50 per 50 lb. case. Laurel Wreaths and Prince's Pine Wreaths made all sizes and prices. Prince's Pine by the lb. and made into roping. Tell us your wants and we will name you prices.



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 Telegraph Office: New Salem, Mass.
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 New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.
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HARDY CUT DAGGER AND FANCY FERNS



\$1.50 per 1000.
WILD SMILAX, \$4.00 and \$7.00 per case.
GALAX, New crop. Green and bronze. \$1.00 per 1000.
 Headquarters for all **FLORISTS' SUPPLIES**, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelles, Cypres Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.
HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
 L. D. Telephone, Main 2018.
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THE WHILLDIN POTTERY COMPANY
 Travelling Representative:
U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.
 PHILADELPHIA, PA., JERSEY CITY, N. J.
 LONG ISLAND CITY, N. Y.
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Cincinnati.
 News of the Week.
 The past week has been a strenuous one for the growers in this section. Will Murphy had fourteen tubes to replace in one of his boilers which kept him from attending the Carnation Society's convention. I have heard of no other accidents; but on Tuesday night, January 24, the fireman was kept very busy shoveling coal.
 Quite a number of the craft who attended the Chicago convention are here looking over R. Witterstaetter's place, especially. The St. Louis delegation arrived Sunday, and Eugene Daille-douze and wife; Fritz Breitmeyer, of Detroit; Chas. Frueh & Son, Bay City, and R. G. Boehringer, of Saginaw, Mich., were here Monday morning. The writer returned home Friday evening, and E. Foster, of A. Sunderbruch's Sons, arrived Saturday morning. The trip to Joliet must have been a very enjoyable one, from the report given by the Cincinnati boys who were with the party.
 The Chicago banquet was a grand success; Rudd is an ideal toastmaster, but Phil Hauswirth leads him as a sleight-of-hand performer. For singing and after-dinner oratory, we must all tip our hats to our brethren from Canada. Jimmie Hartshorne was a little nervous, but he got there just the same. C. W. Ward and E. G. Hill, always good, but not up to their standard; they were both tired. J. C. Vaughan came nearer to filling the bill, Frank R. Pierson was sick, but did admirably under the circumstances. Put give Lewis Ulrich a chance and he will raise the roof. The Chicago Florists' Club and Allied Trades are certainly past masters as entertainers. Please tell Phil Hauswirth that Boston, not Toronto, is the next meeting place; Phil didn't know.
 C. W. Crouch, Knoxville, Tenn.; T. Joy, Nashville, Tenn.; Mr. Oberling, Georgetown, Ky.; J. T. Herdegen, Aurora, Ind., were also visitors.
 E. G. GILLET.

JERSEY CITY, N. J.—Wm. Lutton has secured the following heating contracts: J. D. Cockerott, Northport, N. Y., four houses, 33 x 175 feet, to be erected by J. C. Muninger Company, Chicago; five houses, iron construction, 26 x 125 feet, to be erected at Bloomfield, N. J., for Jacob Hauck, by Phillips Manufacturing Company; four houses, 26 x 125 feet, iron construction, for J. J. Brozat, East Orange, N. J., erected by the Weathered Company.

Sphagnum Moss and Cedar Poles
 Moss, 5-barrel hallet fresh and clean, \$1.25; 3 hales, \$3.25; 5 hales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.
H. E. AKERS, CBATSWORTH, N. J.
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75,000 SQUARE FEET GLASS SURFACE

The above figures represent commercial heating contracts already signed for the season of 1906. An opportunity to estimate on your proposed heating work will be to your interest. Select any good make of boiler you prefer and I will base my estimate accordingly.
Everything for Heating.
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 Telephone 174 J, Bergen.
 Agent for **FURMAN BOILERS, KROESCHELL BOILERS.**
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88 Rochester Ave., Brooklyn, N. Y.
 Telephone, 742-A Bedford
WIRE Designs, assorted, \$10.00 per 100. Select Sphagnum **MOSS**, \$1.50 per bale. Green **MOSS**, 75c. per bag. Can deliver from 1 to 100 bales at short notice. Will ship to any part of the country.
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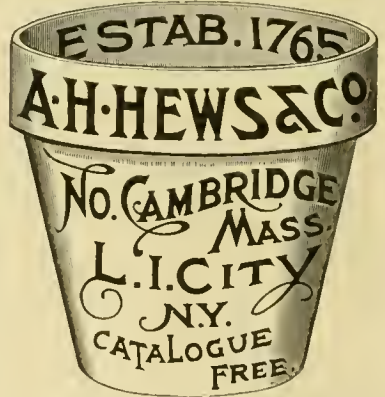
Evans Improved Challenge
 Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
 Write for catalogue and prices before placing your orders elsewhere.
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Window Glass. Painters' Supplies.
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BY USING
Standard Greenhouse Boilers
 One cent gets our Catalogue
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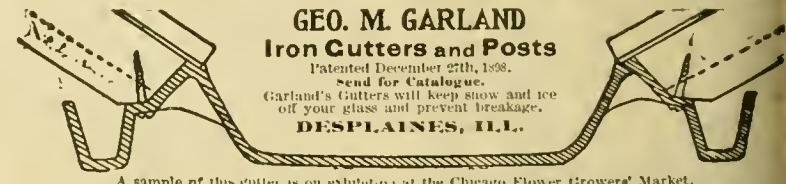
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 Highest Awards Wherever Exhibited

 These Letters and Design are made of the best Immortelle, wired on wooden frame having holes drilled in them to insert tooth-picks by which they are fastened in the design. Give them a trial. You will find these Letters to be superior to any in the market.
 1 1/2-inch Letters and Figures..... per 100, \$2.1
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 Add 10c. per 100 on 2 and 2 1/2-in. Letters if by mail.
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DILLER, CASKEY & CO.
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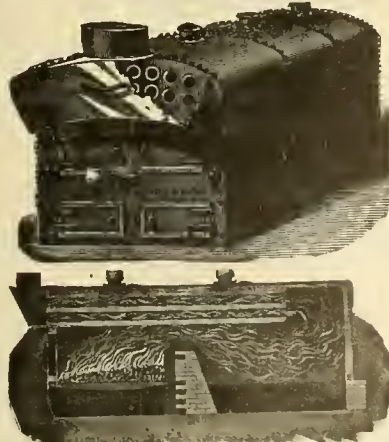
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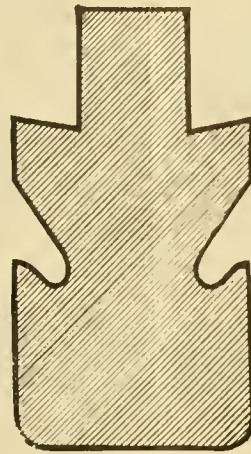
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Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information. Mention the Florists' Exchange when writing.



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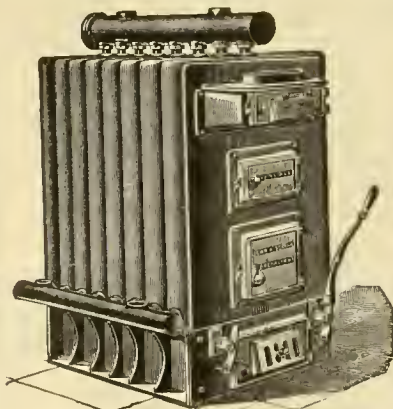
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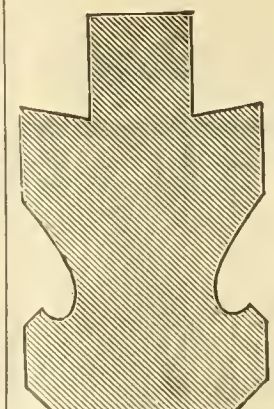
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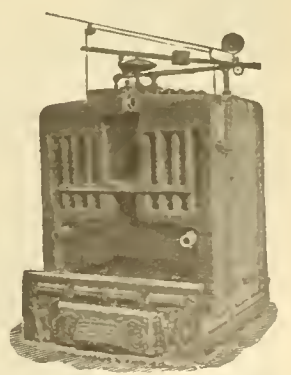
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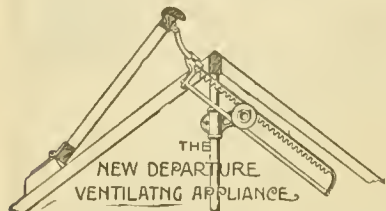
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UP TO 32 FEET OR LONGER.
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ASPARAGUS DECUMBENS, 3 in. pots, 75c per doz., \$5.00 per 100.
ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100; \$15.00 per 1000; 500 at 1000 rate.
ASPARAGUS SPRENGERI, strong, 3 in., 75c per doz.; \$5.00 per 100.
CALCATIONS, rooted cuttings. Write for prices and varieties.
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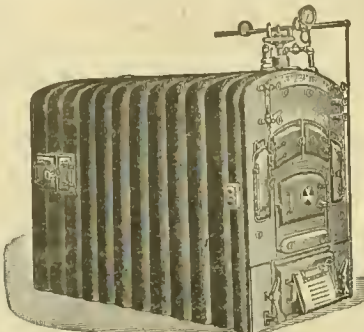
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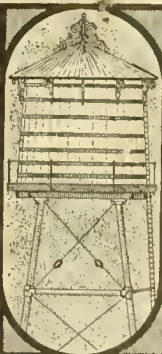
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HOT WATER Radiation from 4,200 Square Feet and Up.
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A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL

Vol. XIX. No. 6

NEW YORK, FEBRUARY 11, 1905

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VARIEGATED LAWSON This variety which we are introducing this season we are sure will prove to be the very best variegated sort. Pure ivory white, with delicate carmine peucillings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, says that he knows that this variety will out-bloom the favorite Mrs. M. A. Patten three to one. It has the Lawson habit and stem, and is bound to give satisfaction. \$12.00 per 100; \$100.00 per 1000.

RED LAWSON A bright red sport of Lawson that is bound to be popular, and will be grown where Lawson is popular. \$10.00 per 100; \$75.00 per 1000.

CARDINAL Bright cardinal, or crimson-scarlet. Won first prize for best 100 scarlet, first prize for best 50 carnations, any color, first prize for best 50 scarlet seedlings, Chicago. \$12.00 per 100; \$100.00 per 1000.

FIANCEE The Queen of pink carnations; in a class by itself. Magnificent flowers, strictly fancy in every respect. \$12.00 per 100; \$100.00 per 1000.

FRED. BURKI Recommended as an extra free-blooming white variety and a claimant for popular favor. \$12.00 per 100; \$100.00 per 1000.

WHITE LAWSON We consider this variety, which we introduced last season, the most profitable white carnation ever sent out. We think it will out-bloom any other white two to one. It has given great satisfaction. When the flowers are left on the plants until fully developed they are much larger than Mrs. Thos. W. Lawson. We believe this will occupy among white carnations the same place that Mrs. Thos. W. Lawson does among pink carnations. Remember that we are headquarters for it. Splendid stock, ready for immediate delivery. \$7.00 per 100; \$60.00 per 1000.

LADY BOUNTIFUL A magnificent white of last season's introduction. \$6.00 per 100; \$50.00 per 1000.

DAHEIM Dark crimson; grand stiff stem; Calyx never bursts. Free and abundant bloomer, developing very quickly. We consider this the best all-round crimson carnation. \$6.00 per 100; \$50.00 per 1000.

MRS. M. A. PATTEN This grand variegated carnation has given splendid satisfaction. \$6.00 per 100; \$50.00 per 1000.

ENCHANTRESS Freest blooming, bringing highest market prices in great demand. \$4.00 per 100; \$30.00 per 1000.

MRS. THOS. W. LAWSON \$3.00 per 100; \$20.00 per 1000.

PROSPERITY A magnificent fancy carnation. \$3.00 per 100; \$20.00 per 1000.

We are now prepared to book orders for 1905 for
THE COMING SCARLET CARNATION
VICTORY
This is a real bread-and-butter variety. An early, free, and abundant bloomer, with good stem; a magnificent keeper and shipper; flowers of the largest size, commanding the very highest price. This is going to be a money-maker.
Orders will be filled in rotation, as received. Delivery beginning December next.
\$12.00 per 100; \$100.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

BULBS For Spring Planting and Summer Flowering

BUY FROM HEADQUARTERS

	Per 100	1000
GLADIOLUS—Selected Bulbs.		
American Hybrids, mixed	\$1 00	\$8 60
Very fine mixed	90	7 60
Second size mixed	65	6 00
White and Light, best to be had	1 60	13 60
GLADIOLUS—Florists' Forcing Sorts.		
Angusta, 1st size	8 00	25 00
" pure white, selected	4 00	30 00
May, Daybreak color	1 50	12 00
Shakespeare, white and rose	4 60	40 00
BEGONIAS—Tuberous-rooted.		
Single, bulbe 1 1/4 in. and up, separate colors, white, red, pink, yellow and orange	2 00	18 60
Double, large bulbe, 1 1/4 in. and upward.		
Separate colors, or mixed	3 50	30 00
CALADIUMS—(Elephant's Ear).		
Bulbs, 6 to 8 in. in circumference	1 60	12 60
" 8 " 10 " "	3 00	25 00
" 10 " 12 " "	5 00	45 00
" 12 in. and over	1.50 per doz.	10 00
Fancy-Leaved, named sorts, large bulbe, \$1.25 per doz.	7 60	60 00
Mixed sorts, large bulbe, 80c. per doz.	6 00	56 00
GLOXINIAS—Choice Stock.		
Named varieties, very large bulbe; separate colors: white, purple, red, blue, spotted and tigered, or all colors mixed, 80c. per doz.	3 60	30 00
CINNAMON VINES.		
Largest size tubers	2 50	20 00
First	2 00	16 00

	Per 100	1000
DAHLIAS. Large Field Clumps		
Named kinds. Separate. Our selection. Ask for list of named sorts.		
Cactus, Show, Fancy and Pompon	\$6 60	\$50 00
Double Mixed, all colors	3 00	25 00
TUBEROSES.		
Excelsior Double Pearl, Doz.		
Mammoth bulbe, 6 to 8 in.	\$0 30	2 00 15 00
4 to 6 in. around	20	1 00 7 60
1st size, 3 to 4 in.	16	60 4 00
BEGONIAS.		
Auratum, 8 to 9 in.	75	4 26 38 00
" 9 to 11 in.	1 26	7 60 67 00
Speciosum Rubrum.		
8 to 9 in.	1 00	6 00 60 00
9 to 11 in.	1 50	7 60 70 00
Speciosum Album.		
8 to 9 in.	1 25	7 00 60 00
9 to 11 in.	2 00	12 00
MONBETIAS.		
Named sorts	1 60	12 00
OXALIS, in variety.	25	1 75
TIGRIDIAS, mixed.	2 00	15 00
TRITOMA PFITZERI	6 00	56 00
ISMENE GRANDIFL'A	7 60	66 00
MADEIRA VINES.		
Large roots	1 60	10 00
IRIS, Japan or Kempferi.		
Grown from originally imported stock, 1/2 single, 1/2 double, named sorts. \$1.00 per doz.	7 00	65 00
Mixed sorts, 1.00	6 00	45 00
GERMAN IRIS, named	3 00	25 00
Mixed	2 00	16 00

CANNAS Large dormant pieces, with two to three eyes. For varieties and prices see our ad. elsewhere in this paper.



CLUCAS & BODDINGTON CO. 812-814 GREENWICH ST. N. Y. CITY
Corner Jane Street. Telephone, 1063 Chelsea.
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

CUT STRINGS OF

Asparagus Plumosus Nanus

First-Class Stock, Running Even and Full, 50 cts. each

Asparagus Plumosus Nanus Seeds

These are the true variety, 75 cts. per 100; \$6.00 per 1000

Now is the time to buy

KAISERIN and CARNOT

for early Summer flowering

2 1/4-inch pots, \$4.00 per 100; \$35.00 per 1000

BRIDE and BRIDESMAID

2 1/4-inch pots, \$4.00 per 100; \$35.00 per 1000

W. H. ELLIOTT, Brighton, Mass.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

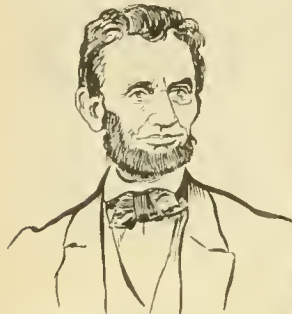
Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

3,000 ETHEL WARD	\$2.00 per 100	2,000 PROSPERITY	\$2.00 per 100
2,000 THE PRESIDENT	\$60 per 1000	3,000 MACKINAC	\$15.00 per 1000
2,000 WHITE LAWSON		2,000 THE BELLE	\$6.00
5,000 ENCHANTRESS	\$4.00 per 100	2,000 LADY BOUNTIFUL	Per 100
2,000 CHRISTMAS EVE	\$30 per 1000	3,000 JUDGE HINSDALE	\$50.00
2,000 GOLDEN EAGLE	\$5.00 per 100	2,000 MRS. PATTEN	Per 1000
1,000 HARRY FENN	\$3.00 per 100	2,000 NELSON FISHER	
5,000 LAWSON	\$25.00 per 1000	2,000 OCTOON	
		2,000 FLAMINGO	

50 of a kind at 100 rate; 250 of a kind at 1000 rate

COTTAGE GARDENS COMPANY (INC.), Queens, N. Y.
C. W. WARD, Manager



OLD ABE

ONCE SAID:

"Procrastination is the thief of time."

ASPARAGUS Plumosus Nanus, just received, 100 seeds, 75c.; 1000 seeds, \$6.50.
Sprenger, 1904 crop, 100 seeds, 20c.; 1000 seeds, 75c.

COBÆA SCANDENS Trade pkt. Oz. \$0.15 \$0.30

SMILAX California-grown10 .35

ASTERS Branching, in colors25 .60

DRACÆNA INDIVISA10 .30

MIGNONETTE Allen's Deference.. .15 .50

SHEEP MANURE Western Sterilized, per ton, \$20.00; per 100 lbs., \$1.25.

BAMBOO CANES Extra fine, clean stock, average 6 to 8 feet, 1 cr 1000, \$6.00

WM. ELLIOTT & SONS, NEW YORK
Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE **GRAND PRIZE**

For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Grow the Hybrids and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
Mention the Florists' Exchange when writing.

LANDRETHS' SEEDS

Before placing Your Order elsewhere ask our prices for choice Seeds

Bloomersdale, Bristol, Penna.

Mention the Florists' Exchange when writing.

LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an un-introduced seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.

WEST GROVE, PA.

Mention the Florists' Exchange when writing.

AT ST. LOUIS A GRAND PRIZE WAS AWARDED ON VEGETABLES, THE PRODUCTS OF **BURPEE'S SEEDS!**

If you garden you want THE BEST,—and we shall be pleased to mail you BURPEE'S FARM ANNUAL FOR 1905, an elegant new book of 178 pages, which tells the plain truth, with hundreds of illustrations, beautiful colored plates, and describes superb Novelties of unusual merit.

If you garden for profit or are a florist you should also have Burpee's "Blue List" or Wholesale Price-List for Market Gardeners and Florists.

Write TO-DAY! A postal card will do, while it is sufficient to

address simply **BURPEE, PHILADELPHIA**

W. ATLEE BURPEE & CO., The World's Largest Mail Order Seed Trade

Mention the Florists' Exchange when writing.

GOLD MEDAL STRAIN BEGONIAS TUBEROUS ROOTED

Single	Per doz.	100	Double	Per doz.	100
White	\$.35	\$2.25	White	\$.65	\$5.00
Yellow	.35	2.25	Yellow	.65	5.00
Nankeen	.35	2.25	Orange	.65	5.00
Pink	.35	2.25	Rose	.65	5.00
Rose	.35	2.25	Dark Rose	.65	5.00
Red	.35	2.25	Dark Red	.65	5.00
Dark Red	.35	2.25	Red	.65	5.00
Salmon	.35	2.25	Salmon	.65	5.00
Orange	.35	2.25	Mixed	.50	4.00
Mixed	.30	2.00			

STUMPP & WALTER CO., 50 Barclay St., New York
Branch Store 404 East 34th St., N. Y.
Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

Asparagus Plumosus Nanus, 100 seeds, 60 cts.; 1000 seeds, \$5.00.
Begonia, Vernon and Bonfire, trade pkt., 25 cts.
Cyclamen Giganteum, 100 seeds, 60 cts.; 1000 seeds, \$5.00.
Petunia Fimbriata Grandiflora, trade pkt., 50 cts. double \$1.00.
Salvia, Bonfire, trade pkt., 25 cts.; oz., \$2.25.
Splendens, trade pkt., 20 cts.; oz., 50 cts.
Stocks, Dwarf Ten Weeks, trade pkt., 25 cts.; oz., \$2.75.
Verbena, Mammoth, trade pkt., 20 cts.; oz., \$1.00.
FRESH TOBACCO STEMS, bale of 300 lbs., \$1.50.

W. C. BECKERT, Allegheny, Pa.
Mention the Florists' Exchange when writing.

STOP!

New Aster
Kate Lock

BEEN GROWN 48 IN. HIGH

Finest Aster in existence. Blooms 5 to 6 inches in diameter, full centers, stems 36 to 43 inches. Shown at all largest Exhibitions in Canada and taken everything before it. Has never been beaten. Colors: Daybreak, White and mixed. \$2.00 per 1000 Seeds. No Agents.

J. H. LOCK, Originator
41 Manchester Avenue, TORONTO, ONT.
Mention the Florists' Exchange when writing.

DAHLIAS



Mrs. Winters, the World's best white, strong tubers, \$10.00 per 100.
Ingeborg Ege-land, best scarlet cactus, \$3.00 per doz., \$20.00 per 100.
Many other novelties and standard varieties.
Wilmore's Dahlias have long been celebrated for prize winning.
Also Double Field-grown **HOLLY-HOCKS**, true to color, \$3.00 per 100. Send for catalogue.

W. W. WILMORE
Dahlia Specialist, Box 382, DENVER, COL.

Thorburn's Seeds

LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION
Per case of 3000 for - - - \$24.00
Two or more cases at \$7.50 per 1000

J. M. THORBURN & CO.
36 Cortlandt St. New York
Mention the Florists' Exchange when writing.

CANNAS Dermant roots, 2, 3 and more eyes, Alba, Anaria, Allemaals, Burbenk, Buttercup, F. Vangha, Mme. Crozy, Black Prince, Bouvier, P. Marquand, Italia, Pirandale, Rebnsta, Metallica, red leaf, \$2.00 per 100; \$15.00 per 1000; mixed, \$10.00 per 1000.
Shellroad Greenhouses, Grange P. O., Gallo., Md.
Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus SEED

250,000 present season growth \$2.25 per 1000. In quantity to suit. February delivery. Early orders requested.

REES & COMPERE, R.F.D. Long Beach, Cal.
Mention the Florists' Exchange when writing.

NARCISSUS

We have a long list of well-pleased customers. Let us quote you prices on our Guernsey-grown bulbs. **TUBEROUS BEGONIAS** For bedding. Write for prices.

HUBERT & CO.
N. LE PAGE, Rep., MI. Vernon, N. Y.
Mention the Florists' Exchange when writing.

THE HARDY ANNUAL OF THE CENTURY Nicotiana Sanderæ

Seeds in original packets at 25c. each.
Wholesale Agents for the United States: **HY. A. DBER, Philadelphia, Pa.**; **J. M. THORBURN & Co., Cortlandt St., New York**; **VANDERMAN'S SEED STORE, Chicago and New York.**
Mention the Florists' Exchange when writing.

Half Million Augusta Gladiolus

IN DIFFERENT SIZES
1st size, 2 1/2 inch and up.
2d size, 1 1/2 inch, 1 3/4 inch.
3d size, 1 1/4 inch, 1 1/2 inch.

WHITE & LIGHT
1st size, 1 1/2 inch, 1 3/4 inch.
2d size, 1 1/4 inch, 1 1/2 inch.
Ask for prices on the different sizes; send stamps for sample.

Long Island is known all over the world for the production of the best Gladiolus Corms. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.
Address all orders to

ROWEHL & GRANZ, Hicksville, L. I., N. Y.
Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus Seed

True Stock, Lath House Grown, \$2.00 per 1,000. Ready March and April.
SMILAX SEED.—\$1.50 per lb., ready in June. Special prices on large orders.
SMILAX PLANTS.—Qui-ol-Door Seed Beds. Strong, 18 months old. \$20.00 per 1,000.

Will exchange for Maiden Hair Fern and Rooted Carnations Cuttings of Enchantress, Harlowarden, Lawson, Queen Louise, Prosperity, Geo. M. Bradt, Flan-see, Cardinal.

E. R. MESERVE
Long Beach, California
Mention the Florists' Exchange when writing.

Special Offer ASPARAGUS PLUMOSUS NANUS Greenhouse Grown Seed

JUST PICKED FROM THE VINES. HIGHEST QUALITY.
Per 100 seeds, 60c.; 250 seeds, \$1.25; 1,000 seeds, \$4.50; 5,000 seeds, \$20.00.

NEW CROP CLEMATIS PANICULATA

CAREFULLY GROWN AT OUR TRIAL GROUNDS.
Per 1/4-ounce, 15c.; per ounce, 40c.; per 1/4-pound, \$1.00; per pound, \$3.50.

Special quotation in quantity.
See our Flower Seed offer in last week's EXCHANGE.
Write for our New Wholesale List for Florists.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.
Mention the Florists' Exchange when writing.

Excelsior Pearl Tuberoses

**Caladium Esculentum Bulbs
Canna Roots**

Are you supplied? If not, write for prices.

**JOHN F. CROOM & BRO., Growers,
MAGNOLIA, N. C.**

Mention the Florists' Exchange when writing

**Asparagus Plumosus
Nanus Seed**

Greenhouse grown, \$4.50 per 1000.

**SAMUEL S. PENNOCK, The Wholesale Florist
of Philadelphia**

Mention the Florists' Exchange when writing.

THE BEST ADDRESS FOR

Dutch Bulbs and Plants

**H. VAN BOURGONDIËN & SONS
Wholesale Bulb Growers
HILLEGOM, HOLLAND**
Until May write to

**K. H. VAN BOURGONDIËN
Care Maline & Ware,
136 Water St., New York**

Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.

Catalogues free on application.

**WEEBER & DON, Seed Merchants
and Growers,
114 Chambers Street, NEW YORK**

Mention the Florists' Exchange when writing.

FRIENDS

get something

New for Easter

Pot-grown WISTARIA Sinensis make a magnificent show—each plant bears 20-30 long racemes of flowers.

	Each	12
Pure White	\$1.25	\$14.00
Blue	1.10	12.00

The only new sweet-scented Herbaceous Peonia in the world. **Forces for Easter.**
3-5 eyes, double white, double rose, double carmine

	Each	12
	\$0.30	\$3.00

New Fern Designs

Soldiers on horseback with drawn sword	Each	12
Soldiers on bicycles, very fine	\$2.00	2.00
Also Logcabins, Flying Birds, Monkeys, Pigeons, Frogs, Full Rigged Ships, Chinese Pagodas, Tartles	.75	\$8.00
Fernballe, 5 inch	Per 100, \$15.00	.20 2.00
" 7 1/2 inch	Per 100, \$22.00	.30 3.00

For Seeds, etc., see our ads, January 14 and 28.

H. H. BERGER & CO.

47 Barclay St., New York

Mention the Florists' Exchange when writing.

CANNAS

Dormant Roots (Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italla, Austria, Queen Charlotte, Paul Marquant, Flamingo, Shenandoah (dark foliage), Falr Persian, Morning Star, M. Washington)

Large Pieces, 2, 3 and More Eyes	\$15.00 per 1000; \$2.00 per 100.
	Mixed All Colors
	\$10.00 per 1000; \$1.50 per 100.

CLUGAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK

Mention the Florists' Exchange when writing.

**Summer Flowering
BULBS**

	100	1000
Imene Grandiflora	\$6.00	\$50.00
Madeira Vines	1.00	8.00
Spotted Callas	3.00	25.00
Tritoma Pflzeri	7.00	60.00
Gladioli, mixed, 1 1/4 in. diam.	.60	5.00

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC.

Eight per cent. discount for cash.
Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.

Mention the Florists' Exchange when writing.

PRIVET

18-24 in.	Per 1000	\$15.00
2-3 ft.	.....	20.00
	Per 100	
HYDRANGEA, P. O., 2-3 ft.	.....	\$6.00
" " 3-4 ft.	.....	9.00
" " 3-4 ft., XX	.....	11.00
WEIGELIAS, 5-6 ft.	.....	25.00
ALTHEAS, 5-6 ft.	.....	15.00
CLEMATIS PANICULATA, No. 1	.....	6.00
AMPELOPSIS VEITCHII, 2 yrs., No. 1	.....	6.00

ELIZABETH NURSERY CO.

ELIZABETH, N. J.

Mention the Florists' Exchange when writing.



**Michell's New Mammoth Dahlia
Mrs. Roosevelt**

The **PINK DAHLIA** yet introduced. Immense size, 6 to 8 inches in diameter. Splendid for cutting, having long stems and good keeping qualities; a good paying variety for any florist. Secure your roots now, and propagate your selling stock. Order early, stock limited. Strong clumps 30c. each; \$3.00 per doz.; \$20.00 per 100; single roots mailed free; add 25c. to cover mailing on doz. lots.

NOTE.—For complete list of Dahlias see our Wholesale List, also full line of FLOWER SEEDS, BULBS AND SUPPLIES, etc.
Copy mailed free on request.

**Henry F. Michell Co., Seed Growers and Importers
1018 MARKET STREET Philadelphia, Pa.**

Mention the Florists' Exchange when writing.

**1904 CROP
ASPARAGUS SEED**

	Per 100	Per 1000
Plumosus Nanus	55c.	\$4.00
" Robustus	85c.	7.50
" Sprengeri	15c.	1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.

**MOORE & SIMON, Seed Growers
207 Market Street, PHILADELPHIA, PA.**

Mention the Florists' Exchange when writing.

F. W. O. SCHMITZ

PRINCE BAY, N. Y.

Wholesale Importer and Exporter of

Bulbs, Plants, Roots, Etc.

All Inquiries Cheerfully Answered

Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

SALEM, MASS.—On January 30, Harlan P. Kelsey, of Boston, who is a resident of this town, lectured in Essex Hall on the subject: "Is Salem in Need of Civic Improvement?" illustrated with lantern views.

LYNNVILLE, TENN.—At the annual meeting of the stockholders of the Giles County Nursery Company, located at Waco, the following officers were elected: President, F. G. McCord; vice president, F. D. Towner; general manager, R. O. Lamar. An annual 7 per cent. dividend was declared. The company has contracted for ten traveling salesmen for the Spring trade and reports a thriving business. The capital stock of the concern is \$10,000.

DURANT, I. T.—There has been organized the Durant Nursery Co. with a capital stock of \$5,000. The list of officers are as follows: C. C. Mayhew, president; A. Frank Ross, vice president; W. R. Collins, secretary and general manager, and E. F. Rines, treasurer. Directors: C. C. Mayhew, W. R. Collins, E. F. Rines, A. Frank Ross, James L. Shuler and Edward Rines. The new company absorbs the nursery and interests of the Texas Nursery Co. at this place and has made application for incorporation. The nursery will cover nearly one hundred acres of ground and over a million trees and plants will be put out this year.

TREES AND SHRUBS FOR WISCONSIN.—A recent bulletin (108) of the University of Wisconsin, Agricultural Experiment Station, prepared by F. Cranefield, gives some instructive information concerning trees and shrubs for shade and ornament, and supplies useful appendices enumerating the subjects that have and have not been found satisfactory after test on the station grounds. We reproduce these lists herewith for the benefit of our subscribers resident in the locality named:

DECIDUOUS TREES FOUND SATISFACTORY.—*Acer glabrum*, *Acer negundo*, *Acer platanoides*, *Acer rubrum*, *Acer saccharinum*, *Acer saccharum*, *Acer tartaricum*, *Betula alba* var., *Celtis occidentalis*, *Fraxinus americana*, *Fraxinus lanceolata*, *Gleditsia triacanthos*, *Gymnocladus canadensis*, *Juglans nigra*, *Larix decidua*, *Morus alba* var., *Populus deltoides* var., *Prunus serotina*, *Pyrus aucuparia*, *Quercus alba*, *Quercus cocinea*, *Salix babylonica* var., *Tilia americana*, and *Ulmus americana*.

EVERGREEN TREES FOUND SATISFACTORY.—*Abies balsamea*, *Abies concolor*, *Abies nordmanniana*, *Juniperus communis*, *Juniperus sabina*, *Juniperus virginiana*, *Picea alba*, *Picea engelmannii*, *Picea excelsa*, *Picea pungens*, *Pinus laricio* var., *Pinus montana* var., *Pinus strobus*, *Pinus sylvestris*, *Pseudotsuga Douglasii*, and *Thuja occidentalis*.

SHRUBS FOUND SATISFACTORY.—*Berberis vulgaris*, *Berberis vulgaris* var. *atropurpurea*, *Berberis thunbergii*, *Caragana arborescens*, *Caragana frutescens*, *Cornus mas*, *Crataegus monogyna* var. *Pauli*, *Corylus maxima* var. *purpurea*, *Diervilla florida*, *Diervilla candida*, *Diervilla hybrida* var. *Desboisii*, *Elaeagnus argentea*, *Eunonymus europaeus*, *Hibiscus syriacus*, *Hippophae rhamnoides*, *Hydrangea paniculata grandiflora*, *Lonicera caerulea*, *Lonicera ruprechtiana*, *Lonicera spinosa*, *Lonicera tatarica*, *Ligustrum vulgare*, *Ligustrum amurense*, *Lonicera tatarica* var. *alba*, *Lonicera tatarica* var. *parviflora*, *Lonicera xylosteum*, *Morus alba* var. *Philadelphus coronarius*, *Philadelphus coronarius* var. *aurea*, *Philadelphus inodorus*, *Potentilla fruticosa*, *Prunus nana*, *Rhodotypos kerrioides*, *Rhus cotinus*, *Ribes aureum*, *Robinia hispida*, *Rosa rugosa*, *Sambucus nigra* var. *aurea*, *Sorbaria sorbifolia*, *Spiraea bumalda*, *Spiraea bumalda* var., *Spiraea billardii*, *Spiraea Douglasii*, *Spiraea hypericifolia*, *Spiraea japonica*, *Spiraea prunifolia* fl. pl., *Spiraea salicifolia*, *Spiraea trilobata*, *Spiraea Van Houttei*, *Syringa japonica*, *Syringa josikaea*, *Syringa Persica*, *Syringa villosa*, *Syringa vulgaris*, *Tamarix palasiensis* Desv. (*Tamarix amurensis* Hort.), and *Viburnum opulus* var. *sterilis*.

SHRUBS FOUND UNSATISFACTORY—BLACK LIST.—*Azalea arborescens*, *Azalea viscosa*, *Azalea nudiflora*, *Azalea mollis*, *Calycanthus floridus*, *Caryopteris mastacanthus*, *Chionanthus virginica*, *Clethra alnifolia*, *Colutea arborescens*, *Cornus florida*, *Cydonia japonica*, *Daphne enoneum*, *Daphne mezereum*, *Deutzia gracilis*, *Elaeagnus longipes*, *Exochorda grandiflora*, *Forsythia suspensa*, *Halesia tetrapetala*, *Itea virginica*, *Kerria japonica*, *Ligustrum vulgare*, *Paulownia imperialis*, *Prunus cerasifera* var. (*Prunus pissardi* Hort.), *Prunus japonica*, *Prunus triloba*, *Spiraea arguta*, *Spiraea thunbergii*, and *Viburnum opulus* var.

The plants of certain of the above named varieties have made a good growth each year, but have not blossomed unless given thorough winter protection. In this class are bladder snail, flowering almond, flowering plum and golden bell. The Japanese quince is hardy of bush, but has not borne flowers except when given winter protection. The gouni will only bear fruit when protected in winter. The double-flowered almond will blossom freely if given thorough winter protection, otherwise it will kick back severely. The double-flowered plum grows well, and after a mild winter will bear its pink-colored rosette-like flowers for in advance of the leaves; unreliable, however, four years out of five, if unprotected. The others of this list have either died outright or else barely survived.

Original Tree of Teas' Weeping Mulberry and Its Originator.

Teas' weeping mulberry, the original tree of which, together with J. C. Teas, the originator, are shown in the accompanying photograph, was an accidental seedling discovered in the Summer of 1883 in a block of Russian mulberry trees which he was then growing to supply the great demand for trees for "timber claims" in Western Kansas. Although the tree was then small, its individuality was distinctly marked and its merits recognized by the originator, whose familiarity with rare and beautiful trees during a lifetime of work among them, enabled him to foresee in it one of the most important additions to the list of hardy weeping trees. Its vigorous habit of growth, extreme hardiness and great endurance and adaptability to soils and climates, enable it to flourish even in poor soils and trying situations, sometimes where care is lacking and scarcely any other weeping tree would grow.

The beauty and grace of well-grown specimens grafted standard height may be seen in well-kept lawns and public grounds throughout this and other countries. Occasionally very fine specimens are seen that have been trained up to a stake 20 feet or more in height. Examples of this are found in Fairmount Park, Philadelphia.

largely distributed into almost every State and territory in the Union, as well as to various foreign lands.

Up to about 1878 there was utter confusion and uncertainty among tree men in regard to the different kinds of catalpa trees. With the assistance of the late E. E. Barney, Mr. Teas carefully examined these trees over a large area of the territory where they grow, traveling many thousands of miles. In this way he discovered and made known the native habitat of the "Hardy Western" catalpa, which was named "speciosa" by Dr. Warder, and Mr. Teas was the first to publish that name and send out trees under it.

Mr. Teas was one of the founders and charter members of the Indiana State Horticultural Society, and when he left that State was made an honorary member.

To his skill, energy and life-long devotion to the business are due important additions in trees, fruits and flowers, notable among which are Teas' weeping mulberry, Japan hybrid catalpa, and last, but not least, Teas' white red bud (*Cercis canadensis alba*), a new variety of this well-known, valuable tree, with abundant snow-white bloom, of which he is now growing a large stock, intending to put it on the market in the Fall of 1905.

Japanese Prickly Ash.

The prickly ash, as the *zanthoxylum* is called, exists in two species in our own country, americanum being the northern and carolinianum the southern species.



ORIGINAL TREE OF TEAS' WEEPING MULBERRY.
Mr. Teas is Seen in the Left of the Picture.

John C. Teas, of Carthage, Mo., the originator of the weeping mulberry that bears his name, is well known among the veteran nurserymen of the country, especially those of the generation now almost past. In his earlier years he was intimately associated with Charles Downing, John J. Thomas, Dr. John A. Warder, Andrew S. Fuller and many other prominent workers in the advancement of horticulture; and in several of their works on fruits, his name is given as having assisted in their preparation.

He was born in Indiana in 1827, and began his life-work in childhood, his first achievement being a bed of *Sanguinaria canadensis* and a plant of white clover. His early school days were spent in a log schoolhouse in the "big woods" of the Hoosier State; and his first trees were small seedlings collected in an orchard through which he passed returning from school, and carried home in his dinner pail. The lack of advantages in those early days was not the only obstacle to be overcome by a young man whose ambition was horticulture. The wise ones were free to give the advice that when the trees already planted should come into bearing the fruit could not be consumed or sold—and, of course, people would not buy and plant more trees. And it did look pretty reasonable, as the best apples could hardly be sold at 10 cents a bushel, and trees of best sorts were 3 to 5 cents. Nothing daunted by opposition and discouragement, the boy went on with his chosen work. In 1850 he went to Rochester, N. Y., and worked for Ellwanger & Barry, to learn more of the business. He had to go 100 miles to the nearest railroad station—on foot and the old stage coach; then a ride on the cars and across Lake Erie on steamboat.

He conducted an extensive nursery in Indiana until 1869, when he moved to Carthage, Mo., where he has since continued the business. He brought from Indiana a very extensive collection of choicest varieties of both fruits and ornamentals, which have since been

Neither is often seen in collections, although, as the bark of the americanum is said to be "bitter, aromatic and a stimulant used for rheumatism and toothache," it would be supposed to be a favorite with gardeners, who, many of them, are too well acquainted with rheumatism. *Z. americanum* is but a large shrub, while the southern one becomes a large tree.

But in the Japanese one, *Z. piperitum*, we have one much more ornamental than our one of the North. The foliage itself is attractive. The bunches of small white flowers do not make much display, but the berries which follow are highly ornamental. The fruit is small, and of a shining black color, and is usually thickly clustered on the branches, the whole forming a highly attractive feature. The name of *Z. piperitum* means pepper-like, and this refers to its fruit, which is called Japan pepper.

Before the fruit is dead ripe, it has a decidedly aromatic odor, and this is true also of the northern species mentioned, which has, in addition, an oily, agreeable fragrance.

Transplanting Red Cedars.

That there is a growing appreciation of our beautiful red cedar by our planters is apparent from what nurserymen say of the increased call for it. It has long been an evergreen greatly valued abroad, where it is found, grown and catalogued by nearly all the leading nurserymen. Because of its making but few roots, it transplants badly; still, with transplantings when young as it as well as all evergreens should have, it is not more difficult than many others are. It will bear a good clipping when transplanted, which helps toward the success of the work.

A friend in Michigan wrote me recently, asking if it were possible to transplant wildlings of this cedar. I advised him to attempt first the getting of a ball of earth with the little trees. This is often possible when

the seedlings are not large. Those of about two feet would be a proper size, and there should be but little risk with them. A spade sunk around them on four sides should secure a ball of roots, sufficient of them to make the work almost an assured success. If the ball can be set in its new position without being broken, and a good pruning of the seedlings performed at the same time, but few of them would be lost.

In addition to the demand for the red cedar in Europe for ornamental purposes, foresters there have a high opinion of its merits. Great numbers of its seeds are sown, being gathered there, and a large supply going to them from this country. I do not know their process of sowing the seeds, but our nurserymen find it best to treat it as they do the holly. Mix it with sand, or soil, at this time of the year, and let it lie in a heap for a whole season, sowing it in a year's time. In favorable seasons, some have had the seeds to grow when sown as soon as ripe in Autumn, the seedlings appearing the following Spring; but the plan is uncertain, and the first mentioned method is the better one.

There are so many evergreens going under the head of cedar, that it seems necessary to say the tree referred to is *Juniperus virginiana*.

Hardiness of Trees and Shrubs.

Under the heading "A Subscriber's Suggestions," in a recent number of *The Florists' Exchange*, your correspondent, "Dutchy," expresses himself to the point when he says that writers, myself among the number, when speaking of hardy trees and shrubs, would do well to say how far North the subjects mentioned are known to be hardy. I have often wished I had information from, to me, far off places like where Dutchy writes from, Minnesota, as to what trees and shrubs are hardy there. Now, will not our friend Dutchy mark a catalogue for me of all the trees and shrubs in it that he knows are hardy in Minnesota? I will gladly forward him a catalogue for the purpose, with necessary postage, and would be greatly indebted to him as well. And, since he has put the thought in my mind, I am going to try a few more friends in the same way, some of those who live in far-away cold States.

It is, as Dutchy says, something catalogue men should know and make known, as well as writers; it would be a great help to would-be purchasers; and I hope my good friend will come to my rescue and send me word that I may send him a catalogue for him to mark for me.

Grafting the Grape.

The proper place to graft grape vines is just below the surface of the ground—a few inches below—and the best time to do the work is in the Fall, or before the sap starts to run in Spring. Fall is to be preferred, for then there is no trouble with flowing sap, and if the cion and all be mounded up with earth, as a protection from frost, the cion is kept alive, and is almost certain to unite. When done at that time, or at any time when under ground, there need be no waxing of the parts. If well tied with raffia, or bass it is sufficient, as the soil will keep out the air. When it is not possible to do the grafting at the time stated, some have succeeded when they have waited until the buds are just bursting. This relieves the bleeding from cut parts and gives the cion a chance to unite.

Grapes can be had at such a low price, and they grow and fruit so quickly, that there is but little need to graft any. Still, it does happen at times that it is desirable, hence these hints on the way to graft them. Sometimes a piece of wood of a new kind comes to hand, and, if successfully grafted, it gives results quicker than in any other way.

JOSEPH MEEHAN.

Ours the Ideal Trade Journal.

It gives me great pleasure to enclose P. O. order to the amount of one dollar for another year's subscription to your excellent paper. In my humble opinion you are printing the ideal trade journal, the reading (and buying) subscribers being taken care of, as well as the advertising ones, to the satisfaction of both. While it would be hard to make distinction among so many good contributions to your paper, yet I must say that the department so ably conducted by Joseph Meehan appeals mostly to me, and has been a source of most profitable information as well as enjoyment.

Connecticut.

J. H. MURRAY.

Four-Leaf Shamrock Easily Obtained.

PARIS.—Great possibilities are held out in a paper which was read before the Academy of Science relative to plants. By making an incision in the stems of young plants four-leaved shamrocks are easily obtained, the only difficulty being to prevent five or even six leaves. By the same method it is asserted that normal flowers can be altered beyond recognition, and the same plant bear two or more distinct growths.

Grafting Baby Rambler Rose.

P. Lambert, Germany's famous rosarian, suggests in a note to *Rosen-Zeltung* the practicality of working the Baby Rambler (Mme. Norbert Levavasseur) on to the original Crimson Rambler rose. He believes that any attempt in this direction in the way of grafting or budding would be followed by certain success. Most climbing roses of the multiflora class, he thinks, could thus be made to flower continually, or, at least, repeatedly during a season.

FRUITS UNDER GLASS.

Peaches and Nectarines.

The early peach house, started the first of January, should now be in full bloom. The trees at this stage delight in a fairly dry, bracing atmosphere, with a crack of air given at every available opportunity during the day. With such treatment the blossoms should be strong. I have found that strong, healthy flowers are easily set; while, on the other hand, trees that are in a close atmosphere are more liable to go wrong. Take, for instance, when nature has its course. The peach tree will come into flower in a comparatively low temperature, which should be a guide for us when growing the fruit under glass, to a certain extent. I claim 50 degrees at night, artificial heat, is all that is necessary until the fruit is set. After a good set, increase the night temperature gradually to 60 degrees, with from 70 to 75 degrees in the daytime. The fruit then will make rapid progress. To some this may seem a slow method, but I have seen so much damage done through starting up the fruit houses in too high a temperature, that I feel compelled to advocate the safe side. However, the strange part is, there will not be much difference in the time of ripening of the fruit; that is, if a good growing temperature is kept in the house from the time the fruit is set until nearly ripe; if any one gathers fruit, say, from the 10th to the middle of May, in a house started the first of January, he is doing well. Of course, in the case of fruit trees that are in blossom now, there are no trees around to set them. Supposing we get good, bright weather when our house is in bloom, a gentle tapping of the branches may be all right; but I prefer to take no chances, going over the blossoms lightly with a camel's hair brush. This operation does not take long, and is certainly safer.

Another important point for the future welfare of the trees is disbudding, taking off all the surplus shoots. This should be done gradually, otherwise a check will be sustained. We all know that peaches grown under glass have a tendency to rank growth; this can be overcome somewhat by careful disbudding, leaving the growth for next season's fruit under the old wood if possible, rubbing off the top shoots. The trees should be disbudded so that the foliage is not crowded at all. Wood that has been crowded is of little or no use for the following season.

The Grapery.

Each day now the sun's rays are increasing in strength, and the young vine foliage is subjected to burning. The best plan to avoid this is, as soon as the temperature begins to rise in the morning, if bright weather, put on a crack of air. This will carry off the surplus moisture from the foliage and prevent burning. Disfigured foliage in a grapery seems to spoil the whole house. The vine is different from the peach; after grapes are started into growth they must be kept in a growing temperature, say 65 degrees at night; 75 degrees day, or 80 degrees with sun beat. The shoots being so tender, too cold an atmosphere would chill them. Vines, when they once start growing, make rapid headway, which means there is work to be done every day or so.

As regards bringing the shoots down to the trellis, this must be done by degrees, or the shoots are easily snapped off. We usually pinch, or stop, the shoots a couple of leaves beyond the bunches; still, this work depends to a certain extent on the space the vines have to cover. One should aim to have the foliage cover the whole trellis, but avoid crowding. After the early house is set, feeding will have to be attended to in some form. Drainings from the cow barn form a capital fertilizer, providing the liquid is not used too strong, and, outside of that, Thompson's Vine Manure is as good as anything I know of. This should be watered in as soon as applied. It is also well to use it light and oftener rather than too heavy—say a twelve-inch pot full to 18 or 20 vines. Such a quantity could be used every time the border is watered.

Strawberries.

The strawberry as a forced fruit is very fine. I have read quite a little about having strawberries for Christmas, etc. I will admit I have had strawberries in Midwinter—in name, minus the flavor. I have come to the conclusion, if I get ripe strawberries by the first of March, then they are worthy of the name of strawberries. Also by aiming to have fruit at that date, one can reasonably expect a good crop, whether grown in pots, boxes or in any other way. I have had best results from six and seven-inch pot stock, but to have good fruit the plants must be near the glass. Strawberries can be grown as a catch crop; in other words, grown in a house where they would not interfere with the growing crop. Shelves could be suspended from the roof which would bring the pots within fifteen inches of the glass. In such a position they do splendidly, with no danger of the fruit damping. I have tried different varieties for forcing, but still go back to the old stand-bys—Marshall and Sharpless—and, for late Spring work, Nick Ohmer. Clay's Fertilizer, applied after the fruit is set, is beneficial; also a watering now and then with nitrate of

soda, will help swell the fruit and hasten maturity. The strawberry is not particular as to temperature, but if it can be brought along in about a carnation house temperature till the fruit is set, then 5 degrees higher would hasten it. Still I have grown fine strawberries in a carnation house temperature.

WM. TURNER.

Tales of a Traveler.

San Francisco and Its Florists.

To write up properly the florists of New York and its vicinity would be the work of some years, and to write up such a town as San Francisco after spending but a week among the flower growers and galesmen is not an easy undertaking, for there are many firms whose acquaintances I have not made and whose establishments deserve more than a passing mention. Understand me, then; I do not call this article a treatise on the florists of this great city, but merely a collection of impressions of what I have been able to see has made upon my mind.

The first thing which the traveler strikes in the city is the man with the violet; and "the message of the violet" will continue to sound long after the present crop of tourists take their departure; for the people of San Francisco use a great number of violets and the streets are often a mass of them at every corner. There is a reason for this, and it is not a wonder that so many are used, for we must consider that all humanity loves the violet, and when we can get the flowers anywhere and everywhere for less than 25 cents per hundred the fact is accounted for.

Picture for yourself acres of violets and cheap labor to pick them and tie them up, for they don't count and bunch them here. The climate permits the cultivation of violets in the surrounding towns by the acre, and the cost of raising them is very slight. Princess of Wales is the only variety grown in quantity, and aside from a few bunches of a white violet, I saw but one small bunch of double violets in San Francisco. The violet is the people's flower here, and the price puts it within the reach of all; and in return they buy them, and the violet is everywhere.

One of the nicest of the San Francisco stores is owned by the firm of Podesta & Balocchi and is situated on Sutter street. These gentlemen are Italians, and yet sunny Italy, as we see so often in the East, is not found here. Clean, thrifty and businesslike and with a class of trade that would be a credit to any firm.

In the Palace Hotel is the store of Thomas L. Stevenson, and here again we find high-grade blooms, and practically no cheap stock. His bronze and brass vases, which are used to display his flowers, are very artistic and unique.

Strolling around among the flower men as a whole one can see a great similarity in the stock to that handled by the firms in the East. Some cut poinsettias, which are not so plentiful there; and I saw also a bunch of chrysanthemums, which at January 27 I considered a rarity. I saw some American Beauty roses of good quality, and upon inquiry I found that they were grown by a Japanese firm at Fruitvale, by name Domoto Brothers. This firm handles a large quantity of stock, and some very fine carnations also were in their shipment. Prosperity in this lot were very highly colored and their Mrs. Lawson and Enchantress were topnotchers for this market. In roses the same stock is seen as in the East, but not without exception, for I have yet to see a Golden Gate in the town from which it derives its name. Bridesmaid is in abundance; Liberty also, and of a good quality.

One of the dainty little flowers seen here in quantity is the English snowdrop, and it certainly has a place and many admirers.

What would a big city be without a green goods man or two? San Francisco has them, and they come in every day with ferns from the creek bottoms in the nearby hills—a type of fern that resembles *Adiantum Williamsii* and one that I think is itself an *Adiantum*. Growing wild in the creek bottoms, it affords a source of revenue to the fern gatherers and is a cheap, useful green for the city florists. Five bunches for half a dollar is the price it sells for, no count taken, but good sizable bunches. The fronds are not long, but it is so cheap that it can be used freely. The day will come when it will not be so plentiful in the immediate vicinity, but the supply, according to report, is good for a lifetime yet. Some *Adiantum* are grown for pot plants throughout the city, but this fern is so good in quality that for cutting purposes *A. cuneatum* is far too valuable.

W. R. PIERSON.

(To be continued.)

Greenhouse Materials.

WINDOW GLASS.—The demand for window glass continues active, with the expectation of an early advance in prices. New York quotations are: First two brackets, single, 90 and 15 per cent. discount; larger sizes, single, and all double strength, 90 and 5 per cent. discount from jobbers' list of October 1, 1903.

WROUGHT IRON PIPE.—Under date of February 1 the leading interest issued new discounts on wrought iron pipe one-half point lower on all sizes, which is equivalent to an advance of about \$1 a ton. The independent makers have also put into effect the higher prices announced by the National Tube Company. Business has been very active in anticipation of higher prices, and the market is firm at the advance.—Metal Worker.

THE E. G. HILL CO., Richmond, Indiana

ROSES

Nicely established plants, clean and healthy

BRIDE, BRIDESMAID, IVORY, GATE, PERLE, PINK COCHET, WHITE COCHET

All the best sorts for bedding or forcing, \$3.00 per 100; \$25.00 per 1000.

Besides our own two new roses

Richmond and Rosalind Orr English

we have a delightful novelty set, embracing the French and German Ramblers, a new Rugosa, M. Pernet Ducher's, Etoile de France, and Jos. Hill, the Dickson set and others. Send for list.

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Best Standard Sorts, from early to late, in White, Yellow, Pink, Bronze and Red, \$3.00 per 100; \$25.00 per 1000.

Let us book your order now for late delivery; the finest commercial and exhibition novelties. Send for Descriptive List.

You will need some

ANEMONE POMPONS

and September Flowering Sorts for early cutting.

Also a general line of

BEDDING PLANTS Send for List

THE E. G. HILL CO., Richmond, Indiana

PANSIES A superb strain of our own raising. Large Transplanted plants 50c. per 100 by mail; \$3.00 per 1000 by express.
C. WHITTON, City Street, Utica, N. Y.

PANSY PLANTS

	Per 100
Large-flowering	\$2.50 per 1000 \$0.60
Asparagus Plumosus Nanus, small plants	1.75
Geranium, 10 Vars, 2 and 2½ in. pot.	3.00
Alternantheras, red and yellow, March 1	2.00
Coleus, 10 Vars, 2 in. pots, March 1	2.00

Cash
JOS. H. CUNNINGHAM, Delaware, Ohio

ROOTED CUTTINGS

	Per 100
Salvia	\$1.00
Vinca Variegata	1.00
Giant Double Sweet Alyssum	1.00
Heliotrope, dark	1.00
Coleus, 15 varieties	.60
Ageratum, Pauline and Gurney	.75
Fuchsia	1.50
Double Petunias	1.50
Vinca Variegata, 3 in. pots	4.00
Ivy Geraniums and Mme. Sallerol, 2 in. pots	2.50

Cash With Order.
ERNEST HARRIS, DELANSON, N. Y.

CYCLAMEN

SPLENDENS GIGANTEUM HYBRIDS.

My well-known strain in bud and bloom, well-grown stock from 5 in. pots, \$2.50 per doz., \$20.00 per 100.
Seedlings, twice transplanted, from flats, in five true colors, \$3.00 per 100, \$25.00 per 1000.

ASPARAGUS

Plumosa Nana, fine plants from 2½ in. pots, \$3.00; from 3 in. pots, \$5.00; from 3½ in. pots, \$8.00 per 100.

Satisfaction Guaranteed

PAUL MADER, East Stroudsburg, Pa.

Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN.

Fine stock, choice colors. Large plants, in bud and bloom, \$1.00 per 100. Smaller sizes, from cold frame, \$3.50 per 1,000, by express. Small plants, by mail, 75 cts. per 100. Seed, \$1.00 per pkt.; \$5.00 per dz. Cash with order.

E. B. JENNINGS, Lock Box Southport, Conn. 254.
Grower of the Finest Pansies.

Mention the Florists' Exchange when writing.

PARIS DAISY

Giant white, 2 in. \$2.50 per 100.

Asparagus Plumosus Nanus, 3 in., very fine, 4c.; sprengeri, \$1.75 per 100. Abutilon, 4 vars., 2½ in., 3c. Umbrella Plants, 2 in., 2½c., Hardy Pink, field clumps, 5 kinds, 6c. Salvia, Bonfire, Splendens, Silverspot, 2 in., 2c.

LIST BELOW, ROOTED CUTTINGS, prepaid, per 100; Ageratum, Gurney, Pauline, white, 50c. Salvia Splendens, Bonfire, Silverspot, 90c. Fuchsia, 5 best vars., \$1.25; Heliotrope, \$1.00; Double Petunias, 10 finest, \$1.00; Hardy Pink, 7 sorts, some ever-bloomers, 75c.; \$7.00 per 1000; Rex Begonias, R. C., mixed, \$1.10; Alternanthera, red, yellow, R. C., 50c.; \$4.50 per 1000; Vinca, variegated, 90c.; Ever-blooming Forget-me-not, \$1.00; Tradescantia, 2 kinds, 75c. Swanson Alba, Verbena, Artillery Plant, 75c. Paris Daisy, \$1.00. Stevia Serrata, 75c.

CASH. BYER BROS., Chambersburg, Pa.
Mention the Florists' Exchange when writing.

Right Here in Connecticut

Rooted Cuttings and 2-inch pot stock now ready.

	Per 100
Coleus, 10 varieties	\$0.60
Ageratum, Dwarf Blue	.75
" Dwarf White	.75
Heliotrope, Blue	1.00
Feverfew, Little Gem	1.00
German Ivy	1.00
Cuphea (Cigar Plant)	.75

	Per 100
Coleus, 10 varieties	2.00
Heliotrope, Blue	2.00
Ageratum, Dwarf Blue	2.00
" Dwarf White	2.00
Feverfew, Little Gem	2.50
Fuchsia, Mixed	2.50

CASH, PLEASE.
D.W. BRAINARD, Florist, Thompsonville, Conn. L.B. 373
Mention the Florists' Exchange when writing.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	CRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
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INDEX TO STOCK ADVERTISED

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ROOTED CUTTINGS

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Table listing carnations like NELSON, LAWSON, MORNING GLORY, JOOST, HIGINBOTHAM, FLORA HILL, QUEEN LOUISE, PERU, and G. ANGEL with prices.

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All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

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RED SPORT FROM MACEO. Color equal to Estelle, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market. It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz. Easy grower, free from disease, and, like its parent, can be planted close, as there is no surplus green, every shoot producing a flower. We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

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Table listing carnations like Prosperity, Lawson, Maceo, Queen Louise, Gov. Walcott, May Naylor, Joost, Eldorado, Bract, Enchantress, and Scull with prices.

Grafted Bride and Bridesmaid Roses, \$10.00 per 100; \$100.00 per 1000. EDW. J. TAYLOR, Southport, Conn.

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VICTORY TO BE DISSEMINATED 1906

Table listing prices for rooted cuttings of VICTORY carnations, including White Lawson, Nelson Fisher, Mrs. Patten, Enchantress, Prosperity, The Belle, and Lady Bountiful.

5 per cent. discount for cash with order. Send your orders early.

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Seedling Carnations.

Because it is a most fascinating line of work, full of interest and pregnant with possibilities, the raising of seedlings is now undertaken on nearly every place where carnations are grown. All the details of cross-fertilization are now fairly well understood, as also the essential points which count in the judging of a carnation and in the selection of parents for a progeny, which, it is fervently hoped will bring with it at least one, possibly several, brand-new prize-winners. All this is very nice and proper and should not be set down as merely a profitless waste of time and labor. It begets and fosters a deeper knowledge of plant life, creates an interest in nature's hidden workings, inspires hope and gives pleasure, and is more likely to advance than to retard floriculture. Therefore, let us rest content and not deal out discouragement to those anxious to grow seedling carnations.

Although the manual part of cross fertilization in the case of indoor carnations may to good advantage be carried on at any time during the entire winter, the months of November and December have been found to be the best time to take this, the first and most important step toward the raising of a good batch of seedlings. Another essential point is to sow the seeds early, if possible not later than February. If the crossing in November resulted in successful fecundation, the seeds should now be ripe. Occasionally, if not taken off in time, the seedling will sprout while still in the pod, especially if the house is kept rather moist. More often the seeds rot, if not gathered in when ripe. For this reason alone, it is advisable to keep a close watch. When the pods have lost their crisp green color and appear to be drying up, turning to a brownish-yellow in spots, they should be cut off, placed in a dish or on a sheet of paper, left to become entirely dry in the sun or near a warm place for a day or two, when they may be broken up and the seeds sown without farther delay. Those seeds that have sprouted while yet in the pod, must be carefully handled and sown at once. The subsequent care and treatment of the seedlings does in no way differ from that of other plants of the same nature.

This is also the proper time to start the seeds of the various kinds of marguerite and other types of bedding carnations. If nice plants are wanted for early planting, they all are good for the garden and useful as a chance pick flower. All of the marguerite section will flower the first season, and, if the seeds are sown early, will produce any amount of picking material the entire summer, after which their usefulness is ended. To this class belong the really fine varieties of the Chabaud and Guillaud strains, raised in France, and a marked improvement on the old time, straggling and small-flowered marguerite carnation. These are worthy of the choicest place in any garden. The plants are sturdy, growing into dense bushes and producing great numbers of very large, fragrant flowers on long, stiff and upright stems. The colors are bright and of every shade to be looked for in carnations, including every tint in yellow, selfs and variegated.

Those excellent old favorites, the dwarf Vienna and the Grenadin carnations, the latter in three or four fine varieties, should be started from seeds in the first part of March, so that strong plants may be had by October, when they should be potted up and given cool winter quarters. They flower the second season.

Rooted Cuttings.

One of the most important features of this country's plant trade to-day is the traffic in rooted cuttings. From a small beginning some twenty years ago, it has developed into an industry of immense proportions and far-reaching consequence. It has, in a great measure, simplified and made less expensive and more convenient the intertrade dealings in most of the leading kinds of bedding plants and greenhouse forcing stock. This mode of plant distribution offers an excellent opportunity to all such florists, whose stock is deficient in any of the leading or some of the coveted new varieties, to complete their stock. In the packing and shipping of rooted cuttings, as practiced now, a

great improvement is noticeable over the careless methods in vogue not many years ago, and buyers find little cause for complaint on this score. It must also be admitted that the quality of rooted cuttings received from any quarter of the country at these times is far superior to that of the diseased, shriveled and rootless rooted cuttings, so often found in shipments delivered in former years. If, as this trade is conducted now, the cuttings received are true to color or name, as ordered, a failure of the new arrivals to come up to anticipations must then be laid to the shortcomings of the variety, or those to be found in the cultural methods of the buyer.

Much depends on how rooted cuttings are handled and cared for when received, and even the soil used in potting them off frequently becomes a fertile ground for the seeds of future trouble. The packages should never be torn or pulled in a ruthless fashion from out the box, but taken out carefully, following the packer's courses by reversing the order and starting with that package which was the last one in packing. Unless sufficient help is taking part in the work of unpacking and taking care of the contents of the new shipment, no more should be taken out and unwrapped than can be handled at a time. The less rooted cuttings of any kind are handled after their journey, the fewer roots and the less moisture at their roots will be lost.

Some people put great faith in a dipping of the roots in water before potting; especially is this thought to be necessary when plants arrive in a shriveled or dry condition, as is often enough the case. I do not approve of this plan, unless for the lack of time the immediate potting up or planting has to be postponed for an indefinite time. If the planting is done at once, as it should be, it can be accomplished in a quicker and more proper way with plants, not dripping wet, and a thorough watering after planting, or potting, will reach the roots just as well and will save them, too, unless they were beyond salvation before they were potted up, and in that case no dipping would have saved them or brought dead plants to life.

The grower, anxious to get his new acquisition into pots, should beware of old, stale, soil out of the next best bench. The freshest and sweetest soil on the place, with little or no manure in it, should be used for the new-comers, if they are considered of value at all, and sufficient of such soil should be ready and at hand at the time the cuttings are expected. Should these not be just what the order called for, or in a condition which justifies non-acceptance, the sender should be notified without delay. Meantime, air should be allowed to reach the plants by removing the upper tiers, if there are more than one, to a safe and shady place, and keeping the entire consignment in good shape, until the arrival of final directions from the firm that sent the cuttings. No good florist should fail in this.

There is one kind of rooted cutting I detest, although it is welcomed by most of the inexperienced growers. This is the early-struck, over-grown, lanky cutting with a green crown and an ossified stem. In the case of new and high-priced carnations, the sending out of a lot of Fall-rooted cuttings in February is nothing unusual, and the unwise buyer, who insists upon having his order filled early, is most likely to get these pickled cuttings. In nearly every case he cuts them in two, tries to root the upper half and nurses the inert, lifeless lower part, until all doubts as to its fitness for the purpose have vanished. In the hope of obtaining double value for his money, he runs the risk of losing all of it. Even should he succeed in re-rooting the top ends and in saving most of the stumps, the outcome will be a lot of plants, entirely unqualified to demonstrate the good points vested in the new, and perhaps most excellent, variety. It is safer to simply pinch, or pull, out the extreme tops of such cuttings when received, or pot them up first and stop them a week or two later. No halving of lanky cuttings should be practiced, unless they are very long, well rooted and provided with fresh, healthy foliage clear down the stem, and even then it would seem a wiser proceeding to just nip away the soft top of cuttings so good, and give them a chance to do their best. Cuttings arriving in a frozen condition must be gradually thawed out, before they are unwrapped, and will then show the extent of the damage done, if any.

FRED W. TIMME.

ROOTED

Carnation Cuttings

	Per 100	Per 1000
Mrs. M. A. Patten	\$5.00	\$40.00
Prosperity	2.50	15.00
Fair Maid	2.50	15.00
Mrs. T. W. Lawson	2.50	15.00
Mrs. Nelson	2.50	15.00
Harlowarden	2.50	15.00
Harry Fenn	2.50	15.00
The Queen	2.50	15.00
Queen Louise	2.00	10.00

Standard Greenhouses, NORWOOD R. I.
Mention the Florists' Exchange when writing.

ROSES AND Miscellaneous Stock

ROSES

From 2 1/2-inch pots, \$2.50 per 100; \$20.00 per 1000

White Rambler	Coquette de Lyon	Climb. Bridesmaid
Pink Rambler	Agrippina	Bride
Golden Rambler	Catherine Mermet	Pink Souper
Yellow Rambler	George Pernet	Papa Gontier
Seven Sisters	Snowflake	Purple China
Lamarque	Universal Favorite	Sylph
Mary Washington	Mme. Schwallier	Golden Gate
Etoile de Lyon	White La France	Rainbow
Bridesmaid	W. A. Richardson	Princess M. Adelaide
Ivory	Empress of China	Marquis de Viviers
Bouquet of Gold	Tennessee Belle	Mignonette
Jersey Beauty	Climb. Marie Guillot	Marie Guillot
The Queen	Climb. White Pet	Mme. Cecile Brunner
Climbing Meteor	Clothilde Souper	Climb. R. M. Henriette
Climbing Perle	Pink La France	Pink Cochet
Climbing Wootton	Clara Watson	Marie Van Houtte
Climbing Souper	Mme. Francis Kruger	Meteor
Prarie Queen	Climbing Malmaison	Yellow Souper
Yellow Cochet	Philadelphia Rambler	Kaiserin Aug. Victoria
White Cochet	Crimson Rambler	Champion of the World
Gross au Tepiltz	Dorothy Perkins	Mme. Jos. Schwartz

\$3.00 per 100

\$4.00 per 100

Glote de Dijon
Two-Year-Old Roses, 4-inch pots, \$8.00 per 100

Agrippina	Petrie Leonie	Snowflake
White Rambler	Princess M. Adelaide	Perle d'Or
Marie Guillot	Bridesmaid	George Pernet
Yellow Souper	Pink Rambler	Mme. Cecile Brunner
Mignonette	Catherine Mermet	Bride
Etoile d'Or	Pink Souper	Golden Gate
Clothilde Souper	Seven Sisters	Gross au Tepiltz
Yellow Cochet	Climbing Malmaison	Dorothy Perkins
White Maman Cochet	Mrs. Degraw	Philadelphia Rambler
Etoile de Lyon	Mrs. Robert Garrett	Manda's Triumph
Crimson Rambler	Kaiserin A. Victoria	Baltimore Belle
Mary Washington	Pink Cochet	Climbing Bridesmaid
Tennessee Belle	Marion Dungee	White La France

CARNATION

RICHMOND GEM. Strong rooted cuttings of the best scarlet carnation of recent introduction. \$10.00 per 100; \$75.00 per 1000.

PALMS

KENTIA BELMOREANA, 4-in. pots, 15 to 18 in. high, \$4.00 per doz.
KENTIA FORSTERIANA, 4-in. pots, 15 to 18 in. high, \$4.00 per doz.
KENTIA FORSTERIANA, 6-in. pots, 24 in. high, \$9.00 per doz.
PHENIX RECLINATA, 4-in. pots, \$3.00 per doz.

RUBBER PLANTS

From 5-in. pots, 20 in. high and upward, \$5.00 per doz.

MISCELLANEOUS STOCK

2 1/2-inch pots, \$2.50 per 100

Periwinkles, three colors	Lantana, five varieties
Salvias, four varieties	Fuchias
Saxifraga Sarmantosa	Flowering Begonias
Achillea, "The Pearl"	Lopesta Rosea
Feverfew	Heliotropes, six varieties
Variegated Vinca	White Marguerites
Lemon Verbena	Hibiscus, in variety
Golden Glow	Gold Fuchsia
English and German Ivy	White Plombago
Pilea	Manettia Bicolor
Ageratum, three colors	Double Petunias, white, pink and
Abutilon, assorted	blotched
Chrysanthemums, in variety	Sweet Alysnum
	Asparagus Sprengerii
Shasta Daisies	2 1/2-inch pots, \$3.00 per 100
Asparagus Plumosus Nanus	Sansevieria Zeylantica
Violets, Princess of Wales, Swanley White	Jessamine, in variety
	Boston Ferns
	Honeysuckle
	2 1/2-inch pots, \$2.00 per 100
Smillax Coleus	Hardy Pinks
the new Brilliantestimus.	Alternantheras, four kinds, including
HARDY PHLOX, 10 varieties, 3-in. pots, \$5.00 per 100	
HARDY PINKS, 3-in. pots, \$4.00 per 100	
ANTHERICUM VITTATUM, variegated, 3-in. pots, \$5.00 per 100	
ASPARGUS SPRENGERII, 4-in. pots, \$10.00 per 100	
ASPARGUS PLUMOSUS, 4-in. pots, \$12.00 per 100	
VARIATED VINCA, 3-in. pots, \$4.00 per 100; 4-in. pots, \$6.00 per 100	

GERANIUMS

\$2.50 per 100

Nutmeg,	Rose,	Oak-Leaf,	White Swan,	Lemon,
Peppermint,	S. A. Nutt,	Jean Viaud		
Mountain of Snow,	Arbutus,	Magician,	Prince Bismark,	
Golden Circle,	Mme. Sallerot			

NATIONAL PLANT CO., Dayton, Ohio

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



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Copy must reach this office Thursday morning to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

The Week's News in Brief.

The Lutey Brothers, of Houghton, Mich., are in financial difficulties; liabilities, \$13,000.

The demand for window glass continues active, with the expectation of an early advance in prices.

The American Institute, New York, will hold its Winter exhibition of fruits and vegetables February 15 and 16.

Numerous fires have occurred this week in different parts of the country. Moral: Keep an eye on the boiler room.

The Utica (N. Y.) Florists' Club will have a carnation night on Thursday, February 16. A banquet will follow the meeting.

The carnation meeting of the Cincinnati Florists' Society occurs on March 11. Exhibits are invited from all carnation growers.

The Philadelphia Flower Market will make another assessment on the stock, of 25 per cent. The market is doing an excellent business.

At the Montreal (Que.) Carnation show, February 23, silver cups will be awarded for best 100 blooms, any variety, and for best exhibit.

Our Question Box this week is, as always, replete with valuable information to seekers after instruction. It is open to all. Make use of it.

Cincinnati, the first regular meeting place of the S. A. F. O. H., will invite the society to again meet there in 1909, on the occasion of its twenty-fifth anniversary.

A correspondent makes a suggestion that florists and others interest themselves in a revision of the freight classification of bulbs and flowering roots. This is worthy of consideration.

The meeting and exhibition of the American Rose Society occur March 23-26, in conjunction with the Spring show of the Massachusetts Horticultural Society, in Horticultural Hall, Boston, Mass.

Ladies' night at the New York Florists' Club, as well as a carnation exhibition, will be held Monday evening, February 13, Lincoln's Birthday. A good show of flowers and an enjoyable time are promised.

At a recent meeting of coal mine owners and operators, doing business in Ohio and West Virginia, held in Columbus, O., a reduction in prices of coal, all along the line, to the extent of about 20 per cent. was agreed on.

The Florists' Club, of Pittsburg, Pa., at its February meeting, presented the retiring president, Wm. Falconer, with a sterling silver coffee service, as a mark of appreciation of his excellent work on behalf of the association.

A scientific test of the Willowmead Company's (East Orange, N. J.) Terridor fuel-saving appliance will be in progress at the establishment of Hitchings & Co., 233 Mercer St., New York, next week. Traders interested should not miss this opportunity to be present. It is something that concerns all greenhouse men.

THIS WEEK'S SUPPLEMENT.

Pueraria Thunbergiana (Kudzu Vine).

The Japan bean, or Kudzu vine (*Pueraria Thunbergiana*), is a native of China. Its unequalled vigor is shown in the photograph, which was taken in August of the second year after planting. In another instance it was trained on the fence, the entire distance around a residence lot 50 by 120 feet, being arched over the gateways, and made this growth in two seasons. Many other instances show it to be without a parallel in its vigorous growth. The leaves are large and handsome, of a light green color, and the flowers, which appear in August and September, resemble those of the wistaria, but are delightfully fragrant, possessing the perfume of ripe grapes.

It is a valuable addition to the list of hardy vines, as it makes as much growth and foliage in a few months as many vines would make in five years. It is valuable where dense shade is desired, fine for covering porches, screens, fences, rockeries, old trees, buildings, etc., covering everything it touches with leafy loveliness.

In many catalogues this vine is listed under the name of *Dolichos japonicus*, which is the name it was first distributed under. It is a remarkably fast grower. The statement that some catalogues contain, that it grows a foot a day, is correct. It has been tested more than once, and found correct. It takes a strong, well-established vine to do this.

Regarding the hardness of this vine, it probably can be grown a good way north of Indiana. It behaves in this way about Philadelphia: The vine may run, say, 50 feet during a season. This growth dies back to a few feet above the ground. Whether this loss is from its nature, or from lack of entire hardness, we do not know; but think it is the latter. But this dying back is of no importance at all, as, owing to the vine's rapid growth, it more than covers all the space desired before the season is over. Probably in much colder States than Pennsylvania it would survive, and be none the worse for being frozen back to the ground every winter, as in all cases where it has come under observation it is the young growth which is looked to for covering purposes.

The flowers are of a rosy pink color; but the vine must be three or four years old before blossoms are produced.

So far as known the kudzu vine has not perfected seeds in the North, but at the Southern Floral Nurseries, Fruitdale, Ala., it seeds every year. The pods are about $2\frac{1}{2}$ inches in length and not unlike those of the rose acacia, *Rohinia hispida*, even in the hairy appearance of the pods.

JOSEPH MEEHAN.

Florists' Clubs and Societies Should Own Their Homes.

At the annual dinner of the New York Florists' Club, held Saturday evening, February 4 last, Wm. J. Stewart, of Boston, one of the post-prandial speakers, gave the members present some well-meant advice relative to the organization owning its meeting and exhibition hall, pointing out that such a desire is now prevalent in some horticultural bodies, among them that of Newport, R. I., which institution had established a building fund for the purpose. In fact, every florists' club and horticultural society in the country should become imbued with a similar desire, Mr. Stewart said. The great success of the Massachusetts Horticultural Society was cited as an example of what might be expected to result from such ownership.

Buildings suitable for this purpose, or sites on which to erect such structures, and their creation, in New York City at least, are so costly as to kill the proposition aborting; and when one realizes that the funds in our local club's treasury amount to but something over \$1,200, after eighteen years of existence, the time seems far remote when the New York Florists' Club, as an individual body, will be able to own its home. Add to this the fact that the membership is composed principally of hardworking representatives of the craft, none of whom has reached the millionaire status, though all may have ambitions in that direction, and our hopes along the lines mentioned receive a severe shock. Still, it is something worth working for; and we can never begin sooner active preparations for its materialization, even though we may only be laying the foundation for that which will benefit the fourth or fifth florist generation hence. Such things have been done.

There is, however, great need of a building of the kind referred to in New York City. The impeding of the development of the local industry, caused by the lack of such structure, we have time and again touched upon. We have in the midst of us horticultural organizations that do include in their membership citizens of wealth. Their affiliation with these bodies leads to the thought that anything tending to horticultural advancement would find favor with them. A horticultural hall has undoubtedly such a tendency. Their sympathies in this connection should therefore be enlisted, and in this work the New York Florists' Club could render substantial aid. A joint meeting of committees from all the interested existing institutions in New York might be productive of initial steps being taken looking to the culmina-

tion of the project in view. We would advise that such a meeting be arranged for at as early a date as possible.

Then, too, the S. A. F. O. H. might also find a useful hint in the suggestion of its secretary, that "every horticultural association should own its home."

The American Rose Society.

In last week's issue we published a summary of the prize list of the American Rose Society for its annual meeting and exhibition at Boston. These occur March 23-26, 1905, and will be held in conjunction with the Spring show of the Massachusetts Horticultural Society, in Horticultural Hall. The combination promises an unusual treat in the matter of an exhibition, that will be well worth seeing.

The American Rose Society seems to have taken on a new lease of life. With one of the best rosarians in America at its head, Alex. Montgomery, of Natick, Mass., it is making endeavors to raise its status to a position among special organizations, compatible with that occupied by the flower it champions, among the flower-loving public; to bring together an exhibition representative of the high standard which rose growing under glass has reached in the United States. In this effort it should be heartily supported, and that support should not be sectional, but should emanate from every part of this great country.

There is no reason that we can see why the annual meeting and exhibition of the Rose Society, or, for that matter, the C. S. A., and other special societies, cannot be made as beneficial to interested parties as those of that progressive body, the American Carnation Society, are to its membership. There are many subjects that men, banded together for a common purpose, can consider for the benefit of all, and those attaching to the rose form no exception, if it be so willed by those most vitally concerned. We are not informed as to what shape the proceedings of the Boston meeting of rosarians will assume, but we hazard the assertion it will be such as to warrant a large attendance.

As to the exhibition, the schedule makes ample provision for a comprehensive and varied display. This will no doubt be forthcoming. Boston, or its vicinity, contains one of, if not the largest, rose-growing plants in the Eastern United States, and the enthusiasm of Mr. Montgomery ensures a representative exhibit from that quarter. Then there is M. Walsh, a local grower, whose efforts in producing new varieties of roses have been signally successful. He, too, will be an exhibitor; to say nothing of the exhibitors than can and no doubt will come from other commercial growers and private gardeners in the neighborhood. These augmented, as they should and will be, by displays from other sections of the country, should conduce to one of the best shows of indoor roses ever given in America.

The American Rose Society is endeavoring to encourage the raising of new seedling roses by offering its medals for meritorious varieties, but does not confine such awards to American efforts, varieties of foreign origin being also eligible for these premiums. Other substantial prizes are also to be given for comparatively new sorts, and success having crowned the painstaking work of several of our growers along this line, we look for an interesting display of what, to the commercial grower at least, constitutes the backbone and drawing magnet of all exhibitions—novelties.

It is announced that exhibits sent from a distance should be addressed to John K. M. L. Farquhar, Horticultural Hall, Boston, and express charges must be prepaid.

A correspondent of the New York Times writes that that journal February 7, urging that "farmers and gardeners show their love of country by sending in at once petitions to Congress to add to the naval appropriation the annual amount that is appropriated for the distribution of seed, and reduce the appropriation to the Agricultural Department by this amount. The farmers and gardeners can do without the seed, and will be the means of adding another of the largest size of battle-ships to the navy."

No, siree! The sons of the soil are no longer the embattled bodies of over a century ago. They are peaceable people, who delight to bask in the blessings of free seed which a beneficent paternal Government continues to bestow, and now live in the hope that the time is not far distant when swords shall be beaten into ploughshares and spears into pruning hooks; when corn shall be of more benefit to the country than cannon, and salads more to the taste of its citizens than ships of war. Meantime let the free seed "humbag" persist. Seeds bring more votes to needy Congressmen than oceans full of navies, or seething seas of sanguinary symbols.

Cincinnati (O.) will make a bid for the convention of the Society of American Florists and Ornamental Horticulturists for 1909. In that year the S. A. F. will celebrate its quarter century anniversary. Cincinnati was the first regular meeting place of the society, where it was practically launched on its progressive and helpful career, August 12-14, 1885, with John Thorpe as president and E. G. Hill occupying the secretary's chair. The membership roll in 1885 showed a total of almost 400. This figure should be quadrupled by 1909. The Cincinnatians think it would be fit and proper that the association again assemble in their city on the society's twenty-fifth birthday, and E. G. Gillett is already interesting the Business Men's League and other organizations, as well as the local craftsmen, in the movement.

OUR READERS' VIEWS

(Contributions to this Column are Always Welcome.)

A Word of Commendation.

Editor Florists' Exchange:

We wish to congratulate you upon your efficient work in displaying the map of Michigan in the issue of your paper, January 28. It was certainly well done, and worthy of commendation. A. GUDE & BRO., Washington, D. C.

California Carnation Cuttings.

Editor Florists' Exchange:

I have been reading with interest the various communications in The Florists' Exchange on California carnation cuttings. I bought four thousand unrooted cuttings last December, and am having a similar experience as your other correspondents. I ordered six or eight varieties, and of some will not get one per cent., while others will give ten per cent. of rooted cuttings. A good many of the cuttings had dark spots on the leaves when received, and these are all dead now. This I suppose to be leaf spot. My own cuttings, struck at nearly the same time, have rooted nicely. READER.

Dracaena Terminalis Canes.

Editor Florists' Exchange:

I notice in Fred W. Timme's Timely Teachings in your issue of January 14, 1905, a statement that *Dracaena terminalis* canes can not always be depended upon. I would like to observe that the right kind can be depended upon, but not always the shipper in the tropics. We have here two distinct varieties of *D. terminalis*—one the true rosea, and the other the bastard or common red kind. These two varieties, when small, can scarcely be told apart, except by an expert, but when large enough to produce canes are very distinct. These varieties do not cross, or one revert to the other.

As a large grower of the true variety, I volunteer the foregoing information in defense of this valuable and attractive *dracaena*, as well as to correct what I think is an involuntary mistake on Mr. Timme's part. Manati, P. R. WM. H. HILL.

Classification of Bulbs, Etc.

Editor Florists' Exchange:

The Florists' Exchange has published much in the past on the freight classification of bulbs and flowering roots, and many improvements have been made along the lines suggested, but the official classification is yet far from right, or just. Japan lilies and lily of the valley should be classed much lower than they are at the present time. These are packed in sand, or damp moss, completely boxed, and are not injured by exposure to the cold or the ordinary delays of freight traffic. They can be easily travelled and placed one on another to the top of a car. The same is true of spiraea and other hardy flowering roots that are now classed with tender plants that require careful handling and are ruined by delay. These matters are adjusted by the Official Classification Committee, of which Mr. C. E. Gill is chairman, whose office is at 143 Liberty street, New York. I wish florists would take this matter up with Mr. Gill and make such suggestions to him as they consider advisable. It is a matter that they are all interested in, to a greater or less extent, and good results would no doubt follow a movement in this direction. Connecticut. W. H.

English Hollies.

Editor Florists' Exchange:

In reference to the remark regarding English hollies losing their leaves before the proper time (see page 36 of your edition of January 14 last), as shippers of large quantities of hollies, with and without berries, to your country, we commence in the Fall (Autumn), say, early in October, and then again in the Spring, early in March. In order that the hollies should keep their leaves, it is necessary that they have a good ball of earth to the roots, which, when packed in sackcloth, keeps the plants in perfect health and condition for four weeks and even longer. On arrival at their destination, they can be lifted out of the cases and planted out in the state in which they arrive, viz.: sackcloth and all attached; this gives the plants the benefit of being surrounded with the ball of earth they have been accustomed to.

In general, it is a wrong system of many shippers to cut or shake off too much of the ball of earth from the roots of the plants. This is, of course, unwisely done to save freight. We prefer to give the plants, especially hollies, the benefit of a good ball of earth, the size of such being according to the size of the plants. Our system is never to send out specimen hollies that will not carry a good ball of earth to their roots. The purchaser, on arrival of the hollies, receives by this system the benefit of the plants keeping their leaves till the usual time of changing comes round.

We think, in publishing the above, it will be of value to the trade. H. DEN OUDEN & SON, Boskoop, Holland.

A Job's Comforter.

Editor Florists' Exchange:

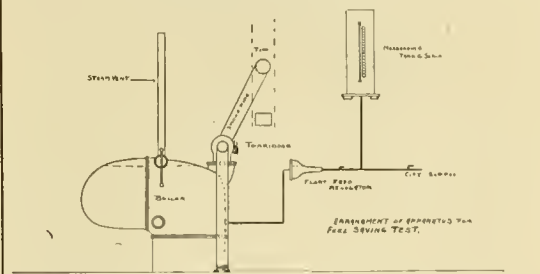
The plaintive cry of Job, "But why, oh why, do my critics continue to class me in the equine category?" must surely enlist the sympathy of the entire trade. We all like him, in spite of his kicking propensities, and I, for one, hasten to assure him of my deepest and sincerest condolences. Certainly, when on a former occasion I thoughtlessly referred to his "horse sense," I had no intention of hurting his feelings. But on reading his complaint it struck me that there must be some cause for this constant reference to the equine race by his critics, so I set about looking for it, and now think that, perhaps, I may have found it. If Job will allow his memory to run back a few thousand years, he will remember that at one time he was a large owner of live stock of the species mentioned above, and it is just possible that an occurrence recorded to have taken place somewhere about that period might only have been a repetition of a circumstance in Job's life. It is written: "He said unto them, saddle me the ass; and they saddled him," and it would now appear that he has been in harness ever since. It is much to be regretted that this solution does not let Job out of the "donkey class," but, as Darwin did not hesitate to tell us that the genus homo was evolved from the ape, so we must not hesitate in this case.

There is a way by which Job might stop these ribald and unseemly jests concerning himself, and that is by giving up his "nom de plume" and writing over his nineteenth century name. But I am not sure but what he can do more good by sticking to his patriarchal name, and I guess he can "stand the racket." A. H. EWING.

A Fuel-Saving Test.

Editor Florists' Exchange:

At the instance of the Willowmead Company, of East Orange, N. J., we are subjecting to a critical test the fuel-saving device manufactured by that company. This test we expect will scientifically demonstrate the exact gain in economy in burning fuel, through using the indirect downward draft, in comparison with the upward draft through the fuel. In the down draft most of the air for combustion is applied to the top of the fuel. The Torridor Blue Flame



Combustion Regulator is claimed to be the best means of securing this method of air introduction in furnaces already installed, and will be used in this test. The accompanying cut illustrates and explains the arrangements made for conducting the test. In short, we propose demonstrating just how much water can be evaporated by burning a certain number of pounds of fuel by using the Torridor, in comparison with burning the same amount of coal in the old way by introducing the air for combustion under the grate.

Florists and all others interested in a scientific demonstration of this nature are cordially invited to attend at our store, No. 233 Mercer street, New York, and witness the working of the test which is now in progress. HITCHINGS & CO.

Proposes a Floral Board.

Alderman Joseph Weston, of Kansas City, Mo., is preparing a resolution which he will introduce shortly creating a board of florist commissioners to be composed of either three or five women. The members of the board would be named by the city forester and be directed by him. Mr. Weston obtained his idea from California, where such a board has been created in many cities and found to be of great value in improving the appearance of residence districts. The duties of the women composing the board would not be onerous. They would have to spend their leisure time in influencing property owners to beautify their grounds by cultivation of plants and flowers. Those who could not afford to buy the seeds would have them furnished free by the board.

DANIEL B. LONG, of Buffalo, who is acting locally as a committee of one, in promoting interest regarding the McKinley Memorial Fund, writes to say that features pertaining to "Carnation Day" are of importance specially vital to trade interests. If the bringing into popularity the flower-wearing observance, as something standard to be followed each year, can be accomplished, the influential good to the business in a general way is quite beyond present-day measure. Mr. Long deprecates the lack of enthusiasm in the matter that seems to exist in some localities, and thinks the trade at large are not inclined to push their interests as justified.

Reflections on Current Topics.

MR. EDITOR: It is a pleasure to read of the enthusiasm of the members of the American Carnation Society, who, in the face of bad spells of weather, continue to convene in large numbers and to stage extensive exhibitions. The value of these gatherings to the man growing carnations is, I think, well exemplified by the report of the appearance at the Chicago meeting of parties from far away Denver and from New York. Journeys like these are expensive, yet they must pay, when undertaken.

I have often wondered what was the contributing cause of this society's phenomenal success. I think my friend Rudd has struck it—viz., the pulling together of the members. Unity of purpose and harmonious effort accomplish a great deal; and here is where such organizations as the American Rose Society, the C. S. A. and others could take a profitable leaf out of the book of their sister society.

Rudd's words, too, show the sometime soundness and value of after-dinner oratory. What would a banquet be without its "flow of soul"—and poem? At Chicago, I observe the sage of Richmond had his post-prandial fling at "trenzied floriculture." Florists, as a rule, are credited with making money easy. Why deny them the comfort of participating with the public in the belief that they are good spenders also? Twenty thousand or so for a carnation is neither here nor there. Such expenditures surely dignify the profession, placing the spenders in the millionaire class. And ain't that worth something, even counterbalancing the losing of a man's religion? I would suggest, though, that the Ananias Society get after those alleged high-price purchasers; they would no doubt prove worthy acquisitions to a very worthy body.

In connection with the Chicago meeting, I want to say just one word of commendation, Mr. Editor. To give such a comprehensive account of an event happening a thousand miles away, necessitating a report by telegraph of all that occurred, represents enterprise, ability and thoughtfulness of readers' interests of no mean order. We, who read these reports seldom, if ever, take into consideration the trouble and expense necessary to present them, and therefore don't appreciate them to the full extent. It is just such work as this, however, that places your paper where it stands to-day—at the top. More power to your arm!

True, The Exchange does not indulge in frills, in the way of fancy front-page covers. This may or may not be a drawback to a business paper. Have you no good-looking young women available? I showed the recent attempt in this line of one of your contemporaries to *Jemima*, thinking it might stimulate her to "sit" for that promised picture. She sneered. "Pose in my ch-m-se, with a rope of beads round my head. Never, sir!" was her resentful response. My hopes of furnishing you something for your Easter number, a *la Cleopatra*, or *Mary Ann Twynetty*, en deshabille, are, therefore, deterred—for the time being.

I notice that the usually placid and poetic "Phil" has suddenly been seized with a disputatious delirium. It is often difficult to discover just what Phil is driving at; but this time it cannot be mistaken. He is after George Watson's scalp. He should pause and reflect as to whether the game is worth the candle.

Then, too, Phil appears to be mightily pleased with the progressiveness of the paper "which he has the honor to represent." Most of its progress seems to lie in Phil himself. It takes a mind beyond the ordinary to ask and answer questions, to suggest such useless departments as "in the shops," not to speak of the elaborate discourses on how Phil sometimes reaches his destination. But, with it all, Phil still remains a poet—and he is evidently a well-meaning harmless kind of a fellow; at least, that is how he appears to JOB.

The American Carnation Society.

Varieties Registered.

By M. Wimandy, Chicago, Ill.
LIZZIE M'KEY.—Color, scarlet red; size, three inches in diameter; length of stem, eighteen to twenty inches; strong and erect.

By The Indianapolis Flower & Plant Co., Indianapolis, Ind.

CORAL.—Color, peach blossom; very bright and showy; size, three and one-half inches, slightly fringed; very full with good strong calyx; vigorous growth and continuous bloomer.

ALLSPICE.—Color, white, heavily striped with red, and petals edged with red; size, three and one-half inches; very full, heavily built and unusually fragrant; very prolific; strong, quick, continuous growth.

CANDACE.—Color, pink, shade lighter than that of Mrs. Lawson; size, three and one quarter inches; very round, well formed flower; an early and extremely heavy producer throughout the season; quick grower. ALBERT M. HERR, Secretary.

When you advertize in The Florists' Exchange you get PAYING RETURNS

AMONG THE GROWERS.

H. A. Stevens Co., Dedham, Mass.

The cultivation of mushrooms by a firm of florists is rarely met with; but the enterprising firm of H. A. Stevens Co., which, by the way, is a young firm in this locality, makes mushrooms a specialty. A few hints regarding their cultivation, which we gathered from Mr. Stevens, may be of interest. This firm began the growing of mushrooms some three years ago in a large barn cellar, which is convenient enough to their boiler room to allow of enough steam pipes being placed for keeping up the proper temperature. When they first started, says Mr. Stevens, they met with more or less success, mostly less, for the first season. They had been using English spawn, but they had heard of American Pure Culture spawn, and resolved to give it a trial. They were the first growers of mushrooms from this spawn in Massachusetts. They at first procured a few bricks of this spawn and planted it along with five other brands, each being kept entirely separate from the other. The result was that more mushrooms were picked from the Pure Culture spawn than from all the five others combined, so that Pure Culture spawn is now entirely used. Mr. Stevens says that as it becomes known, it will revolutionize the cultivation of mushrooms, and bring them within the reach of all.

The illustration shows a section of the bed, which is about 40x40 feet and from which 118 pounds were picked in nine days recently. These mushrooms grow to an extra large size, some of them weighing a half-pound, yet they are solid and of exceptional quality. The bed is prepared the same as for imported spawn, using one part good loam to three parts manure; but, instead of having a depth of 18 inches, the beds averaged ten inches in depth. If the surrounding conditions are right, the best temperature is 58 degrees. The committee of the Massachusetts Horticultural Society visited this establishment last Fall and awarded a prize to H. A. Stevens Co. for their exceptional cultivation of mushrooms.

It is not mushrooms alone, however, that will keep a hustler like Mr. Stevens busy, and we find he has an establishment of five or six large houses devoted to carnations. Among these we noted Fair Maid occupied all of one house and is considered one of the best of its color. A house of Mrs. M. A. Patten looked very well, and it is considered one of the best variegated sorts, although Mr. Stevens says his Variegated Lawson, which, by the way, is entirely different from any of the other variegated sports of this variety, will try hard to make Patten take a back seat. A house of Mrs. Thos. W. Lawson looked remarkably well. Harry Fenn is considered the best crimson, and J. H. Manley is the leading scarlet, although Flamingo has been receiving a good trial. Boston Market is largely grown for white, and Governor Wolcott and Queen each receive their share of attention.

Like all other carnation enthusiasts, Mr. Stevens is trying a lot of seedlings, and some promising varieties were noticed that bid fair to be heard from in the future.

J. W. DUNCAN.

The Cannas.

(Continued from page 110.)

In the raising of seedling cannas one has a grand chance to study breeding, provided one grows his own seed. No one should ever grow seedlings of any named sort, and then sell them as that named variety, even though they very closely resemble the parent, for there will be a great range of vigor and prolificacy in the offspring, even though they may in coloring closely resemble the plant. The product of each seed is a distinct variety, and in some one or more particulars will differ from the others.

We grew in 1903 about 80 named varieties in close proximity, and saved seed from all that produced seed. Having been grown closely together, there was a good chance for natural crossing, and the results from this stock of seed show equal to those produced by the most careful hand fertilizing.

In the list of varieties from which seed are saved we would make two types, or grand divisions. First, the Crozy type, and, second, the bronze foliage type, which are represented by Robusta and President Carnot.

About one-fourth of the Robusta seedlings come with green foliage, all of which, with two exceptions, were worthless, showing a reversion to very small flowers, some of which, however, were beautifully colored. Of the two exceptions, Admiral Togo is a fine yellow, we think much better than Coronet. The other we have called Mikado; it is a profuse bloomer, with medium sized red and yellow finely mottled flowers, and grows 5 to 6 feet high.

We have named several other seedlings of Robusta, among them Zulu, much darker foliage than its parent; Ruby, very rich, dark foliage, with bright red bloom; Prosperity, very fine leaf, medium tall, rose bloom; Imperial, another rose-colored bloom, very handsome foliage; Champion, a semi-dwarf, 3 to 4 feet, pink blossom; very fine.

In this family of seedlings, there is not only a wide range in the breadth of leaf and height of plant, but a great difference in the colors of blooms, and in the



SECTION OF MUSHROOM BED OF H. A. STEVENS CO., DEDHAM, MASS.

root growth, some being much shorter than others, while a few shoot out very long root stalks.

The same variations are found, however, in all the types. In the seedlings from President Carnot, we have but two that are of much merit. Royal Neighbor, a ruffled edged leaf, much better than Black Beauty, 7 to 8 feet high, did not bloom, but its foliage is so grand that it will make a place for itself as soon as its beauty can be seen. Flashlight is one of the handsomest and most magnificent green foliage sorts we have ever seen, grows 8 feet high, and although the blooms are small, they are produced in a large cluster and are of such a bright, glowing flame color that they are attractive in spite of their small size, and as they are carried so high up above such broad, bright green leaves, we know of but few sorts that can compare with it when a fine tropical display is wanted.

In planting the large growing varieties we would recommend that they be given plenty of room. Many in setting out the plants in the Spring want quick effect, and so crowd the plants too close together. A much better method, to get quick results, is to fertilize heavily and water plentifully, giving the plants plenty of room; the growth will be rapid and the added size and magnificence will soon be appreciated.

A large, strong clump can soon be produced from a single plant of most varieties. In the South, where they can be left in the ground the year around, growers often make a mistake by leaving a large clump for the second year. This should never be done, as the roots become crowded and send up small, spind-

ling stalks that but little resemble the grand display that could have been made if but one plant had been left in a place.

Among our seedlings of the Crozy type, the parent plants of many of them are Mount Blanc, Niagara, Chautauqua, Coronet and Buttercup, and many other varieties, the seeds of which we are sorry to say were gathered and planted together, so we cannot tell the parentage. There were none of the seedlings of Buttercup that were the equal of that variety, all being of varying shades of yellow. All of them will be discarded.

Mont Blanc produced three fine varieties: Mount Washington, an improved Mont Blanc; Mount Zion, a dwarf red and yellow, after the style of Niagara, and Moonlight, a very strong, rapid growing plant, 4 to 5 feet high, with medium sized, straw-colored blooms that do not fade to white, as so many yellow kinds do.

Among the Coronet seedlings we have two with beautiful bronze foliage, one of which we have named Bronze King. The bloom is a salmon-red shade, and we think this variety will make a fine sort for general cultivation. The other seedlings of this parentage are mostly of varying shades of yellow, from orange to light straw color; several of them, we think, are quite promising.

The best of all our seedlings was one of six, from Chautauqua. The bloom is of the same brilliant scarlet color as its parent, but one fourth larger, a very rapid grower, with broad, bright green leaves. It grows 5 to 6 feet high, and the clump is always full of foliage around the base. The greatest fault with Chautauqua lies in a lack of foliage at the base of the clump, making the plants seem tall and leggy. This variety we call Queen of Beauty, and it is well worthy of the name, for it is not only a great improvement over its parent, but was the finest plant on our grounds, standing easily ahead of even such fine sorts as Papa Nardy, Mons. Jarry Deslozes, Beauty des Marches, Chautauqua and many others. It is not only unexcelled as a plant, but it produces such a quantity of strong, heavy roots as will commend it to the commercial grower.

There is a great difference in the production of roots of different varieties, and yet the city dealer wants the commercial grower to raise all sorts at a flat or uniform rate. The grower can afford to grow 500 Robusta or President Carnot for less money than he can 100 Black Beauty, and the same is true of many other varieties. Will some one please tell us why we should be asked to grow all at a uniform price?

Among those seedlings that we do not know the parentage of are several of our best ones. Our second best we have named Royal Bronze, which stands as far ahead of all the bronze sorts we have ever grown as does our Queen of Beauty above the green-leaved sorts, standing 7 to 8 feet high, with large, broad leaves of a rich purple color seldom seen in any plant, and with good sized blooms borne well above the foliage, and of the darkest purple shade we ever saw in a canna.

We consider this and Royal Neighbor the two best bronze foliage cannas in existence, and we expect them to become leaders among new and popular sorts.

So far we have only mentioned a few of the most promising of our taller varieties, together with two or three dwarf sorts. We have also many dwarf kinds of merit, but they must be spoken of in a future article, and we expect it will be hard to convince many growers of the great superiority of the taller sorts until they have seen some of our magnificent varieties growing in all their splendor. A good center of either green or bronze in a 7 to 9 foot bed, with the outside set with a dwarf variety of the other color, makes a beautiful bed, and we would recommend that the center plant be never less than a 6-foot variety; the outer variety 2 to 3 feet shorter than the center will then give a good chance to display the beauty of both. Besides good varieties, three things are essential for success—deep spading, heavy fertilizing and frequent watering.

L. H. READ.

Fruitvale, Ala.

(To be continued.)

Carnation Red Sport.

Editor Florists' Exchange:

We are forwarding you by express to-day, prepaid, sample blooms of our red Sport (of Maceo), which we trust will arrive in good shape. (Illustrated herewith.)

Every grower who saw Red Sport growing here last December was carried away with its possibilities as a source of future supply of Christmas red. Everybody is impressed with its great productiveness, vigor and health. There is no choice in the blooms; they are all of a uniform size and color. There are probably 50,000 buds and blooms in various stages of development showing at this time, and there is not a split or off color flower in the lot. During the glut the first part of this month we were only able to get 4c. for fancy Lawson, but we sold every Red Sport bloom we had for 5c. each. A good bright red is always in demand at a paying price during the winter months, and Red Sport can be depended on to give a heavy cut during the winter.

Every grower who has been here to see Red Sport has placed an order for rooted cuttings. We will plant 20,000 of it, for blooms, the coming season, and every flower we can cut is already engaged by two Washington retailers.

Purcellville, Va.

A. B. DAVIS & SON.



MUSHROOMS GROWN FROM PURE CULTURE SPAWN BY H. A. STEVENS CO., DEDHAM, MASS.

CLUB AND SOCIETY DOINGS

THE BOSTON GARDENERS AND FLORISTS' CLUB will hold its next meeting on February 21. A subject of special importance will be the decision of what form the certificates offered by the club will take. Anyone wishing to show any novelty may do so by sending the same addressed to Horticultural Hall and marked for Gardeners and Florists' Club.
J. W. DUNCAN.

AMERICAN INSTITUTE WINTER EXHIBITION.—The seventy-fourth fair and Winter exhibition of the American Institute occurs Wednesday and Thursday, February 15 and 16, at 19 West 4th street, New York. Prizes are offered for apples, pears and potatoes. Meetings will be held under the combined cooperation of the American Institute Farmers' Club and Horticultural Section, the New York State Fruit Growers' Association, the New York State Bureau of Farmers' Institutes, the Horticultural Society of New York, the Connecticut Pomological Society, the New Jersey State Horticultural Society, and kindred organizations, when addresses will be delivered by such prominent horticulturists as S. D. Willard, Professor Bailey, Professor Hall, Dr. W. H. Jordan, J. H. Hale, Dr. Britton, James Wood, Professor Johnson, George T. Powell, C. L. Allen and others. Arrangements have been made for reduced railroad rates from all points in the State of New York, on the fare and one-third certificate plan.

THE NEWPORT (R. I.) HORTICULTURAL SOCIETY.—This society held its regular meeting last week Wednesday, and more members turned out than for a long time. A goodly number of guests were also present to enjoy Professor Barlow's very instructive address on "Economic Insects." The San Jose scale and elm beetle came in for a lengthy discussion after the professor had finished; and so interested did the members and guests become in these subjects that the hour of adjournment arrived without any regular society business receiving attention.

Our next meeting takes place Wednesday evening, February 15, when the executive committee will report its schedule of premiums for the coming year, also advise the society in regard to the exhibitions to be held. Quite a little interest has been taken in the rose and strawberry show, which has always taken place the latter part of June. Some wish to do away with it, as it is contended that it comes at the busiest time of the whole year for our gardeners. One plan suggested is to hold our annual Fall show in the month of August and make it a society function the same as the horse and dog shows are now; this would do away with both the June and September exhibitions.
F. W.

THE NEW JERSEY FLORICULTURAL SOCIETY held its tenth annual dinner on Friday evening, February 3, in Elks' Hall, Main street, Orange, N. J. The affair was one of the most successful the society has ever had. In conjunction with the dinner, the annual meeting was also held, a notable feature of which was an address given by Mr. Runkle, a wealthy citizen of Orange, and an employer of gardeners. The society has been holding exhibitions at its meetings during the past year, when everything shown has been judged and awarded points; and to the growers having the largest number of points to their credit at the end of the year suitable prizes were awarded. Twelve silver cups had been provided for the prize winners, and these were handed over at the close of the dinner. Secretary W. J. Bennett read his annual report, as also did Treasurer Malcolm McRorie; the latter showing the society to be in excellent condition financially.

The dinner was heartily enjoyed, and it was at a late hour when the last course was served. The tables were profusely decorated with flowers and plants, among the donors of these being John Hayes, C. Diedrich, D. Kindsgrab, G. Van Qualen, A. W. Bodwell, Peter Duff and Guttman & Weber.

THE TARRYTOWN HORTICULTURAL SOCIETY held the first meeting of the year on Tuesday, January 31. The newly elected president, Francis Gibson, occupied the chair and conducted the meeting in a pleasant and masterful manner. The prize of the evening, a pair of handsome sleeve links (given by L. A. Martin), was for the best plant suitable for table decoration. Several foliage plants and several flowering plants were placed in competition. The judges, Messrs. Mooney, Hastings and Nichols, after considerable deliberation, awarded the prize to William Scott, his exhibit being a plant of *Croton superba*. A very interesting discussion was brought out regarding the relative merits of flowering versus foliage plants for table decoration, the consensus of opinion seeming to lean to the plant in flower. The F. R. Pierson Co. exhibited several vases of carnations and were awarded a certificate of merit for Variegated Lawson; also honorable mention for vases of Flamingo and White Lawson. The secretary announced that he had the offer of two special prizes for the next November show—one from Mrs. J. B. Trevor, Glenview, Yonkers, of \$25 for the best twelve blooms of *Glenview chrysanthemum*, and a silver cup from F. R. Pierson for fifty blooms of Variegated Lawson. Both prizes were accepted and votes of thanks tendered to the donors. The next regular meeting of the society takes place on February 23.
WILLIAM SCOTT.

MASSACHUSETTS HORTICULTURAL SOCIETY.—Professor John Craig, of Ithaca, N. Y., was the speaker at Horticultural Hall on Saturday. The subject was: "Findings of an Orchard Survey in Western New York." There was a large and appreciative audience. This survey was made chiefly among apple orchards under the auspices of the Agricultural Department of Cornell University. Professor Craig said that the five leading apple-growing States are California, Ohio, Illinois, Pennsylvania and New York. He touched on the age of trees, methods of pruning and the general cultivation. Some statistics on spraying were given, and he emphasized the necessity of spraying as a protection against insects and diseases, giving data to show the comparative value of fruit from sprayed and unsprayed orchards.

At the meeting of the Board of Trustees ten new members were elected.

Some fine flowers of seedling amaryllis and *Gardenia florida* were exhibited by Alex. Ogg, gardener to Mr. J. Montgomery Sears.

The first show of the year will be held Saturday next when carnations will be the feature. A number of special prizes are offered by both flower markets, and there is indication of a very fine exhibition.

The garden committee is planning another spraying demonstration, to take place about the end of April, with a view to the encouragement of the destruction of brown-tail and gypsy moths. An important duty of the garden committee is the examination during the season of the various gardens, greenhouses, plant and vegetable houses that enter for competition in the prizes offered by the society. Anyone wishing to compete in these classes, or growing any special



CARNATION RED SPORT
Growers A. B. Davis & Son, Purcellville, Va.

subject that would be worthy of the consideration of this committee, should procure a schedule, or get full particulars from the secretary of the society, Wm. P. Rich, 300 Massachusetts avenue.

J. W. DUNCAN.

PHILADELPHIA FLORISTS' CLUB.—Tuesday evening last was carnation night at the club; a very good attendance was on hand, there being many members present who had not attended for some time. The exhibition of new carnations and the paper by Edw. Stroud were the attractions. The exhibits were as follows: Strafford Flower Farms (Edw. A. Stroud), a vase of 50 blooms each of Mrs. Lawson, Harry Fenn, Prosperity, Flamingo, Judge Hindsdale, Enchantress and Mrs. M. A. Patten, all perfect flowers, of fancy grade—a most creditable display; John E. Haines, Bethlehem, Pa., staged a vase of his red carnation John E. Haines, one of his new yellow Star of Bethlehem, a vase of Imperial, and a vase of mixed seedlings. H. Weber & Sons, Oakland, Md., sent a vase of their grand white My Maryland, which was the admiration of all present; Guttman & Weber, New York, had a vase of their new carnation Victory; this variety, while seen in this city before, is making more friends each time it comes before us; Joseph Black & Son staged some flowers of a new white seedling carnation (Scott × Enchantress), a large flower of good promise; Davis Bros., Bloomsburg, Pa., had a vase of Crisis, a vase of new white, Mary Albert, and a pink seedling, all apparently of good commercial value. Emil Leiker, Lansdowne, Pa., staged a vase of a crimson seedling; John Kuhn, of this city, three vases of seedlings, one that looks like something of good value, a perfect flower of a rose-pink shade and with good stem.

The paper on carnations by Edward Stroud was an interesting one and will appear in our next issue. In addition to his paper he gave a review of the recent exhibition in Chicago, which was much appreciated.
DAVID RUST.

NEW YORK FLORISTS' CLUB.—The eighteenth annual dinner of this club took place at the St. Denis Hotel, Broadway and Eleventh street, New York, Saturday night, February 4, and was a pronounced success. Some 63 gentlemen sat down to the excellent menu provided. To aid the appetite the dinner committee—Messrs. Sheridan, Hafner and Craw—had arranged that music be supplied while the guests were busy disposing of the various viands and liquids. An enjoyable program of vocal and instrumental music was furnished by the favorite entertainer, Tommy Baker, and his assistants. Mr. Baker had printed the choruses of his various songs, each diner receiving a copy, and all joined lustily in the singing at the proper time. Tom Ballantine was also on hand with his side-splitting stories; and, taken as a whole, the entertainment was most thoroughly enjoyed.

Mr. Sheridan acted as toastmaster, and demonstrated the truth of the axiom, that "practice makes perfect;" seldom, if ever, was the genial gentleman in better form. There was no set toast list. The speakers called upon those their own texts. Brief addresses were made by President Traendly; Vice-President J. Austin Shaw, Messrs. O'Mara, Stewart, Esler, Weathered, Totty, Burns, Wallace, Berry and Birnie. The theme of most of the speakers was the progress making by the club, its effective work for the cause of horticulture, and the efficiency of the present president, whose candidature for the position of chief executive of the national society is receiving considerable attention from his many friends both East and West. Mr. Stewart urged that the club acquire property and build its own hall; in fact, every club and horticultural society, he said, should own its own rooms, in which meetings and exhibitions could be held. Mr. Burns commented on the representative character of the gathering, which embraced every branch of the trade.

The tables were charmingly decorated, among the donors of stock being John N. May, of Summit, N. J., rose Wellesley, John E. Haines, Bethlehem, Pa.; carnations, John E. Haines and Star of Bethlehem; The Cottage Gardens, Queens, N. Y., vases of seedlings and Ethel Ward carnations; Guttman & Weber, New York, carnation Victory; miscellaneous cut flowers from Traendly & Schenck, Walter F. Sheridan, John I. Raynor and John Young, wholesale commission florists, New York, and a vase of orchids from Lager & Hurrell, Summit, N. J. Votes of thanks to the donors and to the dinner committee, with the singing of "Auld Lang Syne," closed the proceedings a little before the midnight hour. It was a great night.

PITTSBURG AND ALLEGHENY FLORISTS' CLUB.—The February meeting of the Florists' Club, held last week, was so well attended that there was hardly room enough to seat all the members; almost 60 were present. The election of officers resulted as follows: T. P. Langhans, president; E. C. Reineman, vice-president; T. Joslin, secretary; F. Burkl, treasurer; E. C. Ludwig, assistant secretary; executive committee, J. Bader, P. Randolph and F. Burkl. Two new members were proposed and four elected, making almost 160. The subject for discussion was carnations and a good display of blooms was on hand. H. Weber & Sons, Oakland, Md., showed their prize winner, which received the bronze medal at Chicago, My Maryland; it was highly thought of and pronounced a splendid white. F. R. Pierson Co., Tarrytown, N. Y., staged White Lawson and Variegated Lawson, very fine blooms. There is very little demand in our city for any variegated sorts. A. J. Guttman, New York, had Victory, a fine red, one of the best keepers at the show in Chicago. John E. Haines, Bethlehem, Pa., had his new red sort, John E. Haines, a good variegated Imperial, yellow Star of Bethlehem, and a white seedling No. 337. A. B. Davis & Son, Purcellville, Va., showed Red Sport, which was very good. J. L. Dillon, Bloomsburg, Pa., sent his new scarlet Crisis, good blooms. The Washington Floral Co., of Washington, Pa., had the good old red variety, G. H. Crane, and A. Lorch, of De Haven, Pa., one of our young local growers, showed a good collection of flowers. The Pittsburg Cut Flower Company staged Lady Bountiful, Fred Burkl, Mrs. M. A. Patten, Mrs. George M. Bradt, Indianapolis, Dorothy, Mrs. Lawson and Flamingo. These flowers came from various growers, some from A. Herr, Lancaster, and from the Bakerstown Rose Farm. Flamingo is considered by Mr. Burkl the best red to-day. Mr. Jenkinson, gardener at Peacock's private place, showed a fine bunch of flowers.

Some blooms were expected from E. G. Hill and C. W. Ward, but did not arrive in time.

In discussing the Mrs. Lawson as a pink, it was thought by the dealers that a better pink color was very desirable, but as the grower finds the Lawson to be a good bloomer with good stem, and large flower, it is the most profitable to grow. W. Clark said it was too bad that the Lawson was found, for it is not really a pink, and a very stiff flower, and being a good producer it keeps other pinks from being cultivated. There is still room for a good pink. We have very good whites and reds, but as yet nothing in a good pink equal to them. The president appointed W. Clark, E. C. Ludwig and J. Wyland a committee to pass on the blooms exhibited.

Wm. Falconer, who declined the presidency for another term, was presented with a sterling silver coffee service from the members of the club. Presi-

dent-elect Langhans, secretary of the Pittsburg Cut Flower Co., in presenting it to Mr. Falconer, in behalf of the club, and in accepting the presidency, spoke in part, as follows:

"The club has been highly successful, whether viewed from an educational, commercial, or social standpoint. We have come together and frankly told each other what we knew, or thought we knew, about our art and our business; we have made exhibits of flowers, plants, florists' and gardeners' material, interesting in themselves and of great educational value to our profession. I am certain that no one who has attended our meetings can truthfully say he has learned nothing at them, and received no benefit from them. Let us continue to conduct the club just as we have been doing, with the same frank discussions and the same interesting exhibitions. Our efforts to make the club a success will surely rebound to the individual advancement and profit of each member. The club enters the year under favorable and encouraging circumstances. Our secretary's report shows an enrollment of 153 members, and the finances are in good condition.

"The club's present flourishing condition and its well-attended meetings are largely due to the untiring efforts of the retiring president. He won our respect and admiration when he presided at our meetings, and kept alive the interest in them; but even more did we respect and admire him when as an earnest club member and enthusiast in his chosen life's calling he gave us the benefit of his deep learning and acquirements, and his extensive experience. We have learned to appreciate his excellent qualities of head and heart.

"Mr. Falconer, I know I voice the sentiment of every member when I express the gratitude we feel toward you and our regret to have you vacate the chair. The members desire me to thank you for your valuable services to the club; and to show their appreciation in tangible form have delegated me to present to you this sterling silver coffee service, and thus have you constantly drinking to our health and the success of this society. Accept it as coming from your sincere friends, with their best wishes for your future happiness and well-being."

Mr. Falconer was greatly taken by surprise. He thanked the members for the gift; he hoped they would come to see him and drink a cup of coffee with him. Several other members spoke of Mr. Falconer's untiring efforts in bringing the club up to its present high standard and hoped that he would still be a leading hand in continuing it so, which he promised to do. The next meeting in March roses will be discussed and exhibited. E. C. R.

THE KENTUCKY SOCIETY OF FLORISTS held its February meeting at the home of Joseph Wettle, Louisville, Ky. After the business of the society had been transacted, Mr. Wettle invited them to partake of refreshments. During the repast, incidents and jokes of the late Carnation Society's convention were told by those fortunate enough to have been there. The next meeting of the society, on Tuesday, March 7, has been designated Rose and Carnation Night, and we, who for various reasons could not attend the late convention, would like to see some of the good new things. Anyone desiring to exhibit can send flowers to our secretary, F. L. Schulz.



Charles Bechstedt.

Charles Bechstedt, florist, Oswego, N. Y., died February 3, after an illness of several months. He was a member of the Oswego Lodge of Elks, Aeonian Lodge, F. & A. M., Ancient Order of United Workmen and the G. A. R. He is survived by his widow, one son, Carl, and one daughter, Miss Carrie Bechstedt.

P. W. Gillette.

Preston Wilson Gillette died at Portland, Oregon, January 28, 1905. Mr. Gillette was descended from French Huguenot ancestry. He was born in Lawrence County, Ohio, June 2, 1825. His father was a nurseryman, and after his school education was completed young Gillette learned the nursery business. During the Pacific Coast gold craze he left for that section of the country, finally locating in Oregon, where he conducted a nursery business. With possibly one exception, he was the first to introduce into that locality cultivated strawberries—Hovey's seedlings—and the red and yellow Antwerp raspberries. It is believed he brought the first collection of ornamental plants to Oregon, such as lilacs, honeysuckles, etc. Aside from the Mission rose, there was but one other cultivated rose in Oregon prior to the stock he secured from the East via the Isthmus, early in 1853.

Mr. Gillette was a member of the Legislature from Clatsop County in the sessions of 1862-64, and also of the special session when the fourteenth amendment was adopted. He was an ardent Republican in political faith, and was a frequent contributor to the press on matters relating to pioneer days. For many years he was a member of the Oregon Pioneer Association, and became an enthusiastic member of the Oregon Historical Society during the first month of its existence in 1899.

Plant Improvement by Hybridization.

(Address by H. H. Groff, Simeoe, Ont., delivered before the American Breeders' Association at Champaign, Ill., February, 1905).

At the last meeting of your association, held at St. Louis in December, 1903, I presented a brief address on the general advantages to be gained by breeding from "tame," versus "wild" species.

In presenting these advanced views, which were the result of years of personal observation and practical experience in such system of plant breeding, I took it for granted that the primary point, as to the actual possibility of creating domestic species by hybridization, had been generally admitted; in fact, some two years ago I recorded my contention on this point through the New York horticultural press.

It was, therefore, with some surprise that I saw the recent references made by Professor de Vries, of Holland, in his address at St. Louis, last September, reported as a "discovery." If there is such a discovery in connection with this important result of scientific plant breeding, and if my original public reference to



STANDING WREATH

Artist, F. C. Read, Orange, N. J.

Photo by J. B. Davis

the fact antedates that of Professor de Vries, I desire to claim the honor for America.

The Darwinian theory as to the natural creation of species is none the less true, but that such theory was intended to be accepted as an insuperable barrier to the results of scientific effort could never have been thought of. It stated what we know to be perfectly true in nature—that the creation of wild species requires ages of time. But as I have recently expressed it: "The unfettered mind of man has bridged the ages, and in hastening evolution by hybridization has rushed into the eons of the future, and laid their treasures at our feet."

It would not be possible in a paper like this to detail the many points and features of this important aspect, resulting in my experience from my recognition of domestic species among my advanced creations, during years of constant and critical observation in the field, from several hundred thousand new seedlings of the gladiolus, as such detail is capable of limitless elaboration as to its actual and possible application in scientific and economic plant breeding.

You will appreciate my statement when I say that, although endowed with a fertile imagination and optimistic temperament, with the added advantages of a life of business training to perfect my mental balance, I confess to a feeling of helplessness at the immensity of the visible field for practical, valuable and useful results arising from my limited application of the system of plant breeding advocated by me.

I used the word "limited" advisedly, for the reason that my use of parents bred from various wild species has been with the object of meeting existing

commercial and popular demands, and consequently I have only attempted a few of the many lines of possible use at my disposal. You will, therefore, understand me when I claim the limitless possibilities opened up by the few lines so selected, as compared with an attempt to compass the immensity of the whole of the visible field.

Here again the visible field is found to be but a border of the limitless reaches of eternal possibilities, and can you wonder that if the human mind falls at the prospect opened up by a fraction of its revelations, how may we hope to grapple comprehensively with its immensity, were even a portion of the remainder effectively availed of. Then, further experiments in a fraction of a section of the visible field have proved to me that even here the development of new forms and types promises to multiply indefinitely in the sub-section so chosen for elaboration; so that specialization becomes imperative, and having chosen the best lines apparent to our restricted perception, it would not be wise—if it were possible—to return to the center, and radiate indefinitely in aimless experiment.

The practical and general application of my system may be outlined as follows: In order to secure the benefits of existing material, make crosses between every available type, regardless of apparent objectionable characteristics. Select sires from these and use on every wild species obtainable, on special and general lines—crossing and recrossing until desirable types are produced. Then bring the selected offspring of all wild species together in intercrossing on special lines, as each wild species will prove more useful than another in some individual feature valued by us, for, as already indicated by me, specialization becomes imperative.

The result of the foregoing will be the creation of new domestic specific types, valuable as sires for use in revitalizing crosses on existing varieties of merit, and the production of new forms and types of unexpected quality and value.

The following article, contributed by me at the request of the editor of Horticulture, Boston, last December, will further explain and make clear what I have just referred to in brief:

"The system of plant improvement referred to in issue of December, 1904, is of such a primary character, and so comparatively barren of results, that in this day of valuable time I can hardly reconcile such dallying on the border of a field of limitless possibilities as consistent with our boasted twentieth century progressiveness.

"Selection of varieties and raising naturally fertilized seedlings from such selections, is only a short step toward an infinitesimal fraction of the possible satisfaction open to all plant breeders, who must be considered as advancing, more or less slowly, toward the ever-rising—but never to be fully risen—sum of scientific horticultural achievement.

"The first step should be hybridization or cross breeding between such selected varieties—irrespective of color or race—to the limit of variation and stability, with a contemporaneous systematic effort to develop domestic specific types from every obtainable wild species, by using pollen from these advanced selections. These efforts should be conducted on many lines, with the hope of rendering the possibilities of each species controllable for the definite use planned by the operator.

"For example: If the desire is to produce a white section, every effort should be made to originate such colors and shades from every known wild species, without regard to their colors. When fixed types of a desirable character have been so produced these should be used as sires on selections from existing varieties as mothers, for the creation of new and valuable economic types.

"While the foregoing operation is progressing for the production of commercial types, crosses should be made between all of these sires on individuals prepared for use as mothers by removal of the anthers before ripening of the pollen, with the object of creating new and distinct domestic specific types to be used as the progenitors of new forms and races, as well as for the revitalization of strains possessing valuable characteristics worthy of perpetuation and elaboration.

"The results to be obtained from blending vital forces that have been isolated for ages in the natural production of wild species gives unbounded satisfaction, and the pleasant surprises are only limited by the activity of the worker.

"In my work on the gladiolus, some of the most beautiful red shades come from crosses between light types that had been revitalized by a dash of choice red blood from new species. The effect of working through the light section added most materially to the substance of the flower.

"My highest satisfaction, however, is from a series of new forms with large, round, cup-shaped flowers, like the tulip or nymphaea. Many of these are self colors, ranging from pure white to lilac and pink, with intermediate shades of the most delicate shell pink and flesh tints.

"Multiplicity of the floral pieces, as in semi-doubles, is now quite frequent. Infusions of such blood induce twinning from the seed so produced, a point that proved most interesting to Professor Bateson, of England, at the International Plant Breeders' Conference, New York, 1902.

"Valuable and interesting variations like the above are among the side lines of limitless possibility yearly made apparent to the ardent worker, and selections made by me from over a half million of my new creations give promise of endless satisfaction, as well as increased opportunities for greater and more rapid progress in the future."

THE STANDARD TREATISE ON GARDENING.

THE GARDENER'S ASSISTANT

New Edition.

UNDER THE DIRECTION AND GENERAL EDITORSHIP OF

WILLIAM WATSON

Curator, Royal Gardens, Kew.

Thoroughly Up-to-Date; The Recognized Authority on Gardening; Most Distinguished Contributors; Lavish in Illustration; Indispensable to Practical Florists and Gardeners, to Country Gentlemen and the Amateur. A Complete Encyclopedia of Gardening. The Leader Among Gardening Books.

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Everything has been done that could be done to elucidate the text by the free use of **illustrations**. These represent recent gardening appliances, houses, heating apparatus, flowers, trees, diagrams, schemes for laying out the garden, methods of pruning, etc. In fact, wherever a picture would be useful a picture is given. Moreover, in addition to the black-and-white text illustrations, there are twenty-five full-page black-and-white plates, and eighteen colored plates of flowers and fruits, specially prepared for the work by eminent artists.

THE FIRST PORTION of the work deals with **GENERAL PRINCIPLES**; THE SECOND PORTION is devoted to directions for the **CULTIVATION OF DECORATIVE PLANTS OF ALL KINDS**—stove, greenhouse and hardy trees, shrubs and herbaceous plants; THE THIRD PORTION treats upon **FRUIT CULTIVATION** in all its branches, both under glass and outside; and THE FOURTH PORTION upon the **GROWTH AND MANAGEMENT OF VEGETABLES AND HERBS**.

THE GARDENER'S ASSISTANT has been made the **SOUNDDEST** and **MOST PRACTICAL**, as it is unquestionably the **NEWEST** and **MOST UP-TO-DATE**, Book on Horticulture.

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The value of THE GARDENER'S ASSISTANT has been endorsed in this country by many of our leading gardeners. It can be purchased on easy monthly installments and should be in the hands of every gardener desirous of being thoroughly conversant with all the developments of his business.

We are Headquarters for all books in print touching on Horticultural Subjects. Write us for a Catalogue.

THE WEEK'S WORK.

Timme's Timely Teachings.

Snapdragons.

The blooms of *Antirrhinum majus*, produced under greenhouse culture, can be sold at excellent prices and in large quantities from early Fall until the following Summer at any place where flowers are sold and bought—a fact our growers have been slow to discover. What the most of our florists know of snapdragon, if anything at all, is based on what they have seen of it in the gardens, either as a sort of mediocre border plant, of a cut flower makeshift during the Summer months. But the very best outdoor snapdragon, although raised from seeds out of the very same package, is but a weed when compared with that which is skillfully cultivated and flowered under glass. One can grow pretty good roses and carnation blooms out in the field, but good snapdragon flowers can only be raised in a glass house, and they are there at their best from March until June; and at that time they are truly one of the grandest sights and best money-earning crops under our fingers, not excepting either roses, carnations or chrysanthemums.

To produce the A. No. 1 article, that sells at sight and brings the high price, may require some experience, which, after all, is the best teacher. On a few places where the snapdragon as a money-maker had been given a more or less thorough trial, the growers met with partial or total failure, and all because some minor details in its culture were not considered of sufficient importance to deserve attention. Any grower of cut flowers who can spare a bench or two for snapdragons the coming season should now provide the necessary stock. This is a splendid time to make a start. Cuttings, of which every one roots in a week, can now be had from older plants, if they are at hand and in full vigor. If not, the seeds of the separate colors—white, yellow, pink and red—will have to be sown now. The snapdragon comes fairly true from seed, but seedling plants are more vigorous than those from cuttings, and, therefore, and because they develop in growth more unevenly, they are not as easily managed as the stock derived from carefully selected cuttings. The beginner, starting with seedlings, will, however, be enabled to work up a fine and choice stock the second year.

Seedlings, as well as cuttings, when rooted are potted off into little pots, given a carnation house temperature, re-potted into 4-inch pots in March or April and then placed into frames outdoors, where unless hit by hard frosts occur no covering of any kind will be required. The plants are not stopped or cut back, but all flower buds should be pinched out and the plants afforded just enough water to keep them from wilting all during the Summer. If the plants send their roots through the bottom of the pot into the underlying soil, which most of them will, no harm is done, as long as these roots need not be sacrificed at the time of benching.

The plants will attain quite a size during the Summer, but the office of this first growth is only to fully develop the plant and prepare it for a vigorous second growth, which starts in the form of very stout shoots from the base of the stem, or rather, the crown of the roots. It is this second growth which we depend upon as the bringer of money in the growing of snapdragons for profit, and only plants pretty far advanced, as these 4-inch plants will be at the end of Summer, send up from their base the right kind of sturdy shoots which under glass will develop into those superb spikes of bright-hued flowers on strong stems, 5 and 6 feet long. If they are wanted as early as Christmas, the plants must be benched early in August. Any fairly good soil in the bench will do. They should be planted rather deep, at distances of 12 or 14 inches each way. When the second, a much stronger growth, is about 6 inches high, the first or Summer growth, is cut away clean, as are also all straggling side branches and undergrowth appearing later.

As the plants advance in their growth plenty of water must be given and the temperature for this holiday crop should not sink much below that which was provided by nature in September and October when the start was made. Some of the now rapidly growing stems may need stakes; all of them must be kept growing as straight as poplars. This Christmas crop, although fine and good property, indeed, will, in point of quality be surpassed by snapdragons kept in frames until late in the Fall, then benched and kept until February in a temperature just above freezing point, after which a gradual rise up to not higher than 50 degrees is given, by which course the warmer days of Spring will be reached and further firing discontinued. As the days become warmer frequent watering and ample ventilation will be necessary.

FRED. W. TIMME.

CANADIAN NEWS

MONTREAL.—The visit of the Governor General, Earl Grey, to our city gave a decided impetus to business. The decorations at the public reception to the Governor at the City Hall were arranged by Mr. Pinoteau, the city gardener, who excelled himself in decorating the very large halls and stairways. Mr. Bain decorated the Board of Trade's immense hall with laurel and palms. McKenna & Son put up very fine table decorations for the Canada Club dinner. Mr. Bain also had a share of this order.

At the carnation show on Feb. 23, a silver cup will be offered for the best hundred blooms, any variety, and another silver cup for the best exhibit. Certificates of merit will be awarded, if worthy, to the best in each class of 25 light pink, 25 dark pink, 25 medium pink, 25 scarlet, 25 white, and 25 variegated. W. C. H.

HAMILTON, ONT.—We are having some good cut flower weather. The temperature, has been steady and cold, but the bright days run the heat up well and ease up the strain on the coal bin. Carnations are coming rather in over-supply. Violets, too, are very plentiful; both Mr. Morgan and the Webster Floral Company are sending in large cuts of Princess of Wales. Von Sion narcissus are now in good supply, but there is no overstock here.

A call on Sones & Sons showed their place to be in its usual trim, tidy shape. As evidence that the boys learned the art of using the hose, with a man who knew how to water, I saw large bunches of young Spring stock, in 2-inch pots, and not a dead plant. Such benches of stock might be called finger-posts to prosperity. Their new carnation houses are giving satisfaction. Glacier is their favorite white. Flamingo is well thought of, and Mrs. George M. Bradt is still grown here very successfully. A large batch of *Primula sinensis* was in as robust growth as any I have ever seen. Alfred Bailey had a section of his hot-water boiler blown out recently; by making some impromptu heating devices frost was kept out, but it was an awkward break.

J. F. Lindner, representing William Rennie, of Toronto, made his maiden trip through this section a short time ago. BEAVER.

Stem Rot in Cabbage.

Editor Florists' Exchange:

I have just written the enclosed in answer to a letter. Similar ones are as common as the day. It has occurred to me that the information it contains might be of benefit to your readers; therefore I enclose it. C. L. ALLEN.

The sad experience that your growers are having is common to all parts of the country. Doctors differ as to the cause. My impression is, and ever has been, that it is the effect of insect depredation rather than a disease of the tissues. I may be tight in this matter, possibly wrong. In our section the growers are all having the same difficulty. There is, however, the very best evidence that I am correct in my first statement. My reason is this: One of our largest farmers, or truckers, whose farm covers 250 acres in Greater New York, has grown cabbage to the extent of one hundred acres annually, and never has a particle of trouble from rot. His method is as follows: Around every plant, when he sets them in the Spring, he puts a small handful of shell lime, and does not let it come within an inch of the stem. This, he says, is to kill insects, and his purpose is accomplished. We have known others to adopt the same lines, and their cabbage is invariably sound and healthy, while their neighbors, who do not use the lime, are having the stem rot the same as that of which your farmers complain.

In some parts of New York State, where cabbage is grown largely for Winter shipment, they are beginning to be troubled in precisely the same way. So serious is the disease, or the difficulty, as to cause apprehension of discontinuing the cultivation. In confirmation of this let me say, it matters not what the crop may be, unless there is a regular rotation, either insect or disease is sure to come to destroy and to compel the farmers to adopt methods that nature always employs in her productions. Further than this I am unable to render you any assistance.

Review of the Market

NEW YORK.—The cut flower trade has fallen very flat this week, and there is no doubt whatever that the continued cold weather has been in a great measure responsible for the lack of business.

BOSTON.—There has been less activity in the calls for all kinds of material than in the previous week, partly on account of exceptionally cold and stormy weather and partly because of an increase of all kinds of stock.

PHILADELPHIA.—Better conditions are prevailing in the cut-flower trade this week. The supply of roses is not up to the demand in choice grades, and prices are stiffer.

BALTIMORE.—Business is fairly good, but there is too much stock to get rid of all, except good roses and Spring flowers, which are not too plentiful.

A new firm, Messrs. Christie & Richmond, has opened a store at Howard and Madison streets.

WASHINGTON, D. C.—The severe weather which we had all week interfered very much with business. A great many plants that were used for decorating suffered severely, and the transient trade fell off considerably.

CHICAGO.—Weather, where the thermometer stands at 20 degrees below zero, cannot be expected to liven up business. Sunday and Monday a severe snowstorm kept the buyers from investing in stock to any great extent.

CHICAGO.—Weather, where the thermometer stands at 20 degrees below zero, cannot be expected to liven up business. Sunday and Monday a severe snowstorm kept the buyers from investing in stock to any great extent.

Carnations are in large supply; the local demand has not been very heavy during the past few days. On Monday several houses had considerable stock left on hand at closing-up time.

Violets are not as plentiful as during the month of January, still they are seen in large quantities in some houses, ranging in price from 40c. to \$1.25 per 100.

INDIANAPOLIS.—A very satisfactory business has characterized the past week. Stock of all kinds is very plentiful and the demand is strong enough to keep any from going to waste.

ST. LOUIS.—Business, owing to the unusual cold weather, is very quiet. The ground hog made good his word; the biggest snowstorm of the season occurred Sunday.

Bulbous stock has increased in quantity in all grades. Von Sion narcissus bring \$5 per 100; Roman hyacinths and Paper White narcissus are very plentiful at \$2 and \$3 per 100.

American Beauty roses are fairly plentiful for all demands in all grades; extra fancy bring \$4 to \$6 per dozen; those at \$2 and \$3 per dozen are the best sellers.

In carnations the market is well supplied with all varieties and grades. Whites have the call; there is more colored stock just now than the demand calls for.

CINCINNATI.—Business, owing to the extreme cold weather, has not been brisk, but, at the same time, stock is very scarce and sells readily when received.

PROVIDENCE, R. I.—Carnations are plentiful at \$1.50 to \$3 per 100, and in good condition. Roses seem to be a little short at 3c. to 10c. each, but enough to go around.

CHANGES IN BUSINESS.

(Items for this column are respectfully collected from readers.)

MARSHALLTOWN, IOWA.—J. H. Wright has opened a cut flower store here at 204 East Main street.

YORK, PA.—Shireman Miller, a young farmer of Fairview Township, will start a fern farm and grow for market.

HONEYOYE FALLS, N. Y.—Anthony Carey has purchased a farm here and will engage in the nursery business.

SPRINGFIELD, O.—The Aldrich Flower Store, under the proprietorship of Baldwin McGrew, has been established at 25 East High street.

NORTH GLENNOVA, W. VA.—Mr. and Mrs. Klugas, of Caldwell's Run, have moved to North Glennova, where they will embark in the gardening business.

GENEVA, ILL.—John Leitzau has purchased the greenhouse business of Jacob Duer and will conduct the business in the future.

COLUMBUS, O.—The Fifth Avenue Floral Company, \$20,000 capital, has been incorporated by Claude K. Seibert, Martha Seibert, Guy W. Woodrow, Bessie S. Woodrow, Muris D. Seibert, and Nora A. Seibert.

BOWLING.

Table with 3 columns: Name, Score 1, Score 2. Includes names like A. S. Burns, W. H. Siebrecht, F. C. Holt, A. J. Guttman, J. A. Shaw, J. Fenrich, T. J. Lang, J. Hart.

THE NORTH HUDSON FLORISTS' BOWLING CLUB, at its weekly roll, made the following scores:

Table with 3 columns: Name, Score 1, Score 2. Includes names like Steinhoff, M. Hansen, Stern, Helms, Garreau, Birnie, Baumann, Tochup.

BUSINESS DIFFICULTIES.

HOUGHTON, MICH.—Lutey Bros., florists of Houghton and Calumet, have gone into bankruptcy, the amount of the firm's liabilities being in the neighborhood of \$13,000.

A FEW TESTIMONIALS.

Everybody Says So.

The Florists' Exchange is too good a paper for any one to give it up. Ohio. JOHN MICHELSEN.

It Is the Trade's Tutor.

The Florists' Exchange has always been the tutor of the trade. Oregon. GEO. GARRECHT.

Well Worth the Money.

The Florists' Exchange is a good dollar's worth of reading. Rhode Island. ALBERT A. BOONE.

A Young Man's Opinion.

Being a young man, with plenty to learn, The Florists' Exchange is a great help to me from week to week. New Jersey. CHAS. W. O. JONES.

Wants It Oftener.

The Florists' Exchange I count BY ALL ODDS THE FLORISTS' BEST PAPER, either for information on trade topics or for advertising. The only thing is, it is not issued often enough. Pennsylvania. C. C. YOST.

He Will Come Again.

The two insertions of my advertisement in The Florists' Exchange accomplished the result I desired; i. e., to reduce my stock of small ferns. I am well satisfied and will have some other plants to offer later on. New Jersey. HAROLD OTTER.

Advertisement for 'The Fumigating Kunk Powder' featuring a large illustration of the product and text: 'All That Use It Say "There Is Only One" FREE trial five-pound bag will cost you nothing more than the express charges on it.'



AT HALF PRICE

READ THE REASONS GIVEN

Natural Business Laws justify higher prices on Novelties than stock in normal demand and supply can command

An event unusual is that of a meritorious novelty—such as appeals sensibly to all growers of judgment—offered below half its normal price.

Nevertheless, as the full time and attention of the introducer are now fully demanded with other lines of his business, in planning to directly close out the limited balance of the originally grown stock of

Adiantum Croweanum

it is now on sale at less than half price.

As a standard novelty the sterling values of this fern develop more and more daily, hence this offering is no reflection on its true merits.

The following prices tell their own story:

Strong plants from 3-inch pots, \$2.50 per dozen; \$15.00 per 100; \$125.00 per 1000. 25 plants at 100 rate; 250 at 1000 rate. \$100.00 per thousand in 5,000 lots.

In order to ensure orders being filled, would-be buyers need to speak quickly.

LET NO ONE HESITATE NOW!

Selling Agents:

F. R. PIERSON CO., Tarrytown, N. Y.
 W. W. BARNARD & CO., Chicago, Ill.
 H. A. DREER, Philadelphia, Pa.
 VAUGHAN'S SEED STORE, Chicago, Ill.

WM. F. KASTING, Sole Distributor

383-87 ELLICOTT STREET

BUFFALO, N. Y.

S. S. SKIDELSKY, Travelling Representative, 824 North 24th St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

Philadelphia.

The Week's News.

Pennock Bros.' window contains a display with ideas for Valentine's Day—heart-shape boxes in various colors, fancy baskets of flowers, etc., which are all very attractive.

Samuel S. Pennock has commenced shipping daily to the Florida resorts. Reports from there indicate a very good season.

The Flower Market has decided to call another 25 per cent. assessment on the stock. So far, 50 per cent. has been paid in. This new assessment will be payable May 1. The market is doing a good business, and has wiped out an indebtedness incurred last year, closing the year with a profit. But it is doing a business of fifty thousand a year on a capital of \$6,700, which greatly handicaps it in making prompt payments to stall renters and consignors.

John Burton will build three houses, each 22x230 feet, this season, in place of old houses to be torn down, using Lord & Burnham material, including iron gutters.

Some of our growers report that they have used more coal this Winter than they did during the same time in the Winter of 1902-3. DAVID RUST.

Louisville, Ky.

News Notes.

The bowling experts must now look to their laurels; Louisville has entered the field, and Kentuckians never acknowledge defeat until it has been proven them.

Leo Zoeller, our new carnationist, is to be congratulated. It is a boy.

The weather conditions here have been unusually severe on the florists this Winter; for weeks it has nearly been impossible to deliver plants in quantity. A. R. B.

Cleveland.

News Notes.

The Cleveland Market Gardeners' Association held its regular meeting February 4 to change the constitution, whereby it can meet annually, instead of monthly, as the constitution now

reads, the reasons given—the inability of the gardeners attending, owing to the long journeys, the work on the farm, and the lack of produce to bring to the city. A permanent committee was appointed to look after the needs and take up various complaints of members and look after the general business of the association.

Many gardeners who have glass are venturing into the realm of flora, and are growing salvias, geraniums, coleus, petunias, cannas, etc., with more or less success and profit.

The recent cold snap of four days' duration, really the coldest we've had this Winter, has appreciably increased the cost of cut flowers, and reduced the supply. The quality of stock coming into the market, however, is fine.

Kirchners', Quincy street, reports good business.

Mrs. Adam Graham and son are visiting Hot Springs, Ark. O. G.

A SEEDSMAN INTERVIEWED.—

"Three warehouse fires in Michigan and California are responsible for a scarcity in seed beans," said S. Shawvan, the veteran seedsman of Janesville, at the Republican House in Milwaukee. "Last year's crop was none too large, and the result is that salesmen are having difficulty in getting enough seed beans to go the rounds of their customers. Seed peas are also scarce, owing to the great quantities which are used by the canning factories. It is no unusual matter for a salesman to dispose of \$6,000 to \$10,000 worth of seed peas to a single factory. There are a number of canning factories throughout Wisconsin which take as large a quantity as that mentioned. As the canning business is increasing rapidly, it has been a little difficult for the seed houses to keep up with their heavy demands.

"In a general way there is a strong demand for all kinds of seeds this year, and the business promises to foot up beyond the average. The houses are better stocked in other lines than in peas and beans, and no shortage is expected otherwise."

MISSOULA, MONT.—The Missoula Nursery Company reports business very good; this concern doubled its glass capacity last Summer, and still the demand exceeds the supply.

Why Do I Advertise?

BECAUSE it is a business necessity; in other words, I advertise that I and my family may be provided with a living—and something over.

Why Should I Advertise?

BECAUSE it is imperative that I let the trade know I am in business, and have goods to sell that they are in search of.

What Should I Advertise?

EVERYTHING I have to sell. That is what I grow my stock for.

When Should I Advertise?

AT ALL TIMES, making sure that my goods offered are reasonable.

Where Should I Advertise?

IN THE TRADE PAPER in which advertising is most profitable—something easily discovered. Profitless advertising is money wasted.

There is no sentiment in business.

The good advertising medium is known by the returns it brings to the advertiser. Advertising in THE FLORISTS' EXCHANGE always brings returns.

THE FLORISTS' EXCHANGE, New York

2-4-6-8 DUANE ST.

P. O. BOX 1697.

Mention the Florists' Exchange when writing.

Chicago.

The Week's News. Sunday and Monday a severe snowstorm struck us, impeding traffic to a great extent...

The bowlers again took up work Tuesday night to get in trim for the contest at Washington, D. C.

Bassett & Washburn report shipping trade very good, this branch of the business taking nearly all their stock...

Thursday morning of last week a fire originated in the store of John Jangel, from crossed electric wires. The damage was estimated at \$400...

Wm. Niemann, of Norwood Park, will erect three new houses for carnations the coming Summer.

George Piepgras is again at his duties after a week's absence caused by a fall from a street car.

Singler Bros., at Morgan Park, will rebuild part of their range of glass the coming season, using modern construction.

Construction men report an active demand for greenhouse material for use the coming season, both for new and rebuilding operations.

Peter Reinberg will do considerable building, having already placed an order for 6,000 feet of cast iron gutter.

John Phearson has the sympathy of his many friends in the trade over his recent loss of an infant child.

Fred Sperry, of Vaughan & Sperry, has been confined to the house by an attack of la grippe.

ROBERT JOHNSTONE.

St. Louis.

The Growers' Club is to meet at Louisiana Hall on Thursday night, February 9, at 8 o'clock. Postals have been mailed to all who are eligible.

Fred Ammann, John Stiedel, A. Jablonsky, E. W. Guy and Frank Fillmore have returned from the Chicago convention, and their inspection trip through the carnation belt.

The Ellison Floral Company will, this week, finish moving to its new location. After everything is in order the firm will have one of the neatest stores in the city.

J. W. Pilcher, Kirkwood, is cutting a fine lot of California violets, and the best Enchantress carnations that come to this market.

Geo. E. McClure, at the Missouri Botanical Garden, has the orchid flowers in grand shape. The "devil's tongue plant" is in bloom at the Garden this week.

Pittsburg.

Business the past week was fair. The weather is decidedly cold, around zero for days. Funeral work was the best part of the trade...

Visitors have been numerous: B. Eschner, of Rice & Co., and M. Reukauf, of Bayersdorfer & Co., both of Philadelphia...

Wm. Falconer has been confined to the house with a bad cold for ten days, but is able to be about again.

E. C. REINEMAN.

Indianapolis.

The State Florists' Association held its monthly meeting Tuesday evening, February 7, at the Commercial Club rooms.

The retailers are showing bright-colored windows of Spring flowers. A. Weigand & Sons, a nice lot of jonquils and tulips...

Messrs. Walter and Herbert Bertermann have returned from New York. Visitors: Frank M. Bartram, Philadelphia; Wm. Hagemann, J. A. E. Haugh, Anderson, Ind.; Messrs. Van Zanten and Beerhorst, Holland.

I. E.

H. KENNEY

88 Rochester Ave., Brooklyn, N. Y. Telephone, 742-A Bedford

WIRE Designs, assorted, \$10.00 per 100. Select Sphaznum MOSS \$1.50 per bale. Green MOSS 75c. per bag.

Mention the Florists' Exchange when writing.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style. The best, strongest and neatest folding cut flower box ever made.

Table with columns for Size No., dimensions, and price per 100 or 1000 boxes.

Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.

THE LIVINGSTON SEED CO., Box 104, Columbus, O. Mention the Florists' Exchange when writing.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the "Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders.

EDITORS OF THE "H. A." Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION Mention the Florists' Exchange when writing.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

E.C. AMLING J.B. DEAMUD

The Largest, Best Equipped, Most Centrally Located Wholesale Cut-Flower House in Chicago Wholesale Cut Flowers Consignments Solicited.

CHARLES W. McKELLAR

Wholesale Commission Florist And Dealer In all Florists' Supplies 51 WABASH AVENUE, CHICAGO

Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Large table with columns for Name and Varieties, Chicago Feb. 8 '05, St. Louis Feb. 6 '05, Cincinnati Feb. 6 '05, Milwaukee Jan. 9 '05, and Toronto Feb. 1 '05. Rows include Beauty, Liberty, Meteor, Perle, Orchids, Carnations, and various other flower types.

FLOWER GROWERS' MARKET

60 WABASH AVE., CHICAGO Sell Your Stock There See PERCY JONES, Manager

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS. Mention the Florists' Exchange when writing.

SINNER BROS.

Wholesale Growers CUT FLOWERS and Shippers of 58-60 Wabash Ave., Chicago, Ill. Telephone, CENTRAL 3067.

VAUGHAN & SPERRY

58-60 Wabash Ave., CHICAGO WHOLESALE FLORISTS Florists' Supplies

HOLTON & HUNKEL CO.

Wholesale Florists Florists' Supplies Manufacturers of Wire designs. 457 Milwaukee Street, MILWAUKEE, WIS.

H. G. BERNING

Wholesale Florist 1402 Pine Street, ST. LOUIS, MO. Mention the Florists' Exchange when writing.

A. J. FELLOURIS

Wholesale and Retail Dealer in all kinds of **Evergreens** Galax Bronze or Green \$1.00 Per 1000

FERNS, Fancy, \$1.50 per 1000
Dagger, \$1.00 per 1000
468 Sixth Ave., New York

BETWEEN 28th and 29th STREETS
TELEPHONE 4009 MADISON SQUARE
Mention the Florists' Exchange when writing.

CYPRESS
GREENHOUSE MATERIALS
ANY DESIRABLE
JOHN C. MONINGER CO.
111-125 Blackhawk St
Cor. Hawthorne Ave.
CHICAGO, ILL.

Mention the Florists' Exchange when writing.

Syracuse, N. Y.

News Notes.
The past week has been a busy one for the florists, and with table decorations, funeral work, etc., stock has been kept cleared up. Good roses are not quite so plentiful at present, but the demand is also light. Carnations seem to be holding their own. Ford Bros., North Syracuse, have the past season, erected the largest greenhouse plant for vegetable forcing in Central New York. A great deal of the product raised is shipped to New York city.

Visitors in town were: Dr. Rowlands, of Whitesboro, and Mr. Norton, of Mills Bros., Rose Hill Nurseries. Quite a number of the florists from this city will attend the Utica Florists' Club's annual carnation meeting, to be held February 16, when the new rose Wellesley, from the Waban Conservatories, will be on exhibition.
J. E. B.

Newport, R. I.

News Notes.
We are having the worst weather of the season thus far; mercury near zero for many days and in addition, snow, rain and hail—hard weather certainly to do business in. The seeds-men's catalogues are being distributed this week and it will not be long before the season is on.

Fadden has had more than the usual amount of funeral decorations to do the past week; Harrisii lilies, carnations and violets were largely used. Mr. and Mrs. Robert Hunnuck celebrated their silver wedding Monday evening of last week with a gathering of personal friends in the hall of the Merchants' Exchange building, Ziegler decorated for the occasion, and a general good time was enjoyed by all.

The gardeners are much interested in a new remedy for the San Jose scale that is being given a trial at the Rhode Island Agricultural College. It is a mixture of kerosene, limoid and water. The result of the trial it is hoped will be satisfactory.
F. W.

HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
10 Desbrosses St., New York
Mention the Florists' Exchange when writing.

National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 655 John. HARRIS H. HAYDEN (Late Manager of the Nepera Chemical Company), President EDWARD MOK. WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer
56 PINE ST., Wallace Bldg., N. Y. CITY (Booms 611-612)
Mention the Florists' Exchange when writing.

CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY
Window Glass. Painters' Supplies.
89 Washington Ave., 31st Ward, Pittsburg, Pa.
1929 Carson Street,
Mention the Florists' Exchange when writing.

Evans Improved Challenge
Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.
QUAKER CITY MACHINE CO.
RICHMOND, INO.

Kroeschell Bros. Co. IMPROVED

Greenhouse Boiler
33 ERJE ST., CHICAGO

Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, side and back). Write for information.

Wired Toothpicks

10,000, \$1.50! 50,000, \$6.25
MANUFACTURED BY
W. J. COWEE, Berlin, N. Y.
Samples free. For sale by dealers.
Mention the Florists' Exchange when writing.

SUMMER IN WINTER

BY USING
Standard Greenhouse Boilers
One cent gets our Catalogue
GIBLIN & CO., Utica, N. Y.
Mention the Florists' Exchange when writing.

Best kind, best of its kind for all hand work, is the
Success Knapsack Sprayer
Knapsack and Bucket Sprayer Combined.
Brass pump with bronze ball valves, 5 gal. copper tank, mechanical agitator, pump worked with either hand. Arranged for easy carrying and handling.
WE MAKE 20 STYLES SPRAYERS. Hand, Bucket, Knapsack, Barrel, Field, Power. We meet all wants. Send for free catalog.
THE DEMING CO., SALEM, OHIO.
HEMION & BUSSELL, Western Agents, Chicago.

Absolutely Safe and Reliable. Ask your friends.
ANY INTELLIGENT MECHANIC can erect one of our
Tank and Tower Outfits
The most explicit directions and plans are sent with each outfit sold.
W. E. CALDWELL CO.
LOUISVILLE, KY.

Hammond's Slug Shot for House Plants

AN INFALLIBLE INSECTICIDE
Hammond's Slug Shot
DESTROYS ALL INSECTS INJURIOUS TO
and Garden Plants, Shrubs, Trees, Vines, Potatoes, Cabbage, Currants, Vegetables and Fruits of all kinds.
SLUG SHOT works from packages of from field and orchard the trade generally giving full many testimonials efficiency, made
Hammond's Slug Shot Works

This picture shows the tin, perforated, screw-top **Canister** filled with **Slug Shot** for use on plants in pots or in the garden; it is easily filled, when empty, from larger packages; it can be mailed at rate of one cent an ounce postage. It is sold by many seedsmen, and is an article which Retail Florists may find of service to customers. **Slug Shot** is put up in these tin canisters, perforated-top paper cartons, 5 and 10 lb. bags, 125 lb. kegs, 250 lb. barrels, and loose for garden or greenhouse use. Send for pamphlet on "Bugs and Blights." Our goods are sold by Seed Dealers the country over, and so continuously advertised to the general public. For mildew and blight: "Grape Dust," "Solution of Copper," and "True Blue Bordeaux Mixture." For "San Jose Scale": "Horian" Concentrated Lime, Sulphate and Salt. "Thrip Juice" for all scale.
Twemlow's Old English Liquid Putty, and "Greenhouse White Paint."
GOOD STUFF, THESE.

HAMMOND'S SLUG SHOT WORKS, Paints, Oil and Chemicals, Fishkill-on-Hudson, N. Y.
Mention the Florists' Exchange when writing.

GULF CYPRESS Greenhouse Material

Cut and Spliced Ready for Erection
Hot Bed Sash
Pipe, Fittings, Ventilating Apparatus
GREENHOUSE GLASS
We furnish everything for Building
Heating Installed
Send for Prices and Catalogue

S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N. Y.
Mention the Florists' Exchange when writing.

GREENHOUSE LUMBER

Now is the Time

TO SEND FOR OUR ESTIMATES and decide on your contemplated building work. An early order is early delivered, and early deliveries afford you much more time for painting and careful erecting. If you wait until later, there will be "others" who have waited too long, and everyone then wants their work "at once."

Our New Construction Sheet Mailed on Application.
Plans and Estimates Freely Furnished on Request.

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO. LOCKLAND, O.

Mention the Florists' Exchange when writing.

CEMENT BENCHES

NAGARA CEMENT & CONCRETE CO.
NORTH TONAWANDA, N. Y.

Mention the Florists' Exchange when writing.

Holds Glass Firmly

FULL SIZE No. 2



See the Point at PEERLESS
Glassing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

Mention the Florists' Exchange when writing.

GREENHOUSES.

MATERIAL FURNISHED AND MEN TO SUPERINTEND ERECTION IF DESIRED.

CYPRESS SASH BARS ANY LENGTH UP TO 32 FT. OR LONGER.

THE A. T. STEARNS LUMBER CO.,
NEPONSET, BOSTON, MASS.

Mention the Florists' Exchange when writing.

BUILD THE BEST GREENHOUSES

And so increase Your Profits



WRITE TO-DAY TO OUR NEW YORK OFFICE for Construction Catalogue of "up-to-date" Greenhouses.

WE make them with both iron and wooden frames. We can erect your houses or supply the material fitted. Our houses are light and durable. Perfectly heated and ventilated.

LORD & BURNHAM CO.

New York Office:
St. James Bldg., 1133 Broadway
General Office and Works:
Irvington-on-Hudson, New York



Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20		
1500 2 3/4 " " " 5.25	60 8 " " " 3.00		
1000 3 " " " 6.00	48 9 in. pots in crate, \$3.60		
800 3 1/4 " " " 5.80	48 10 " " " 4.80		
500 4 " " " 4.50	24 11 " " " 4.60		
320 5 " " " 4.51	12 14 " " " 4.80		
144 6 " " " 3.16	8 16 " " " 4.50		

Seed pans, same price as pots. Send for price list of cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Rolker & Sons, Agts. 31 Harelay St., N. Y. City

Mention the Florists' Exchange when writing.



The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

Mention the Florists' Exchange when writing.

EUREKA GREENHOUSES

Send for catalogue Get the best Greenhouse Material, Composition Posts
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

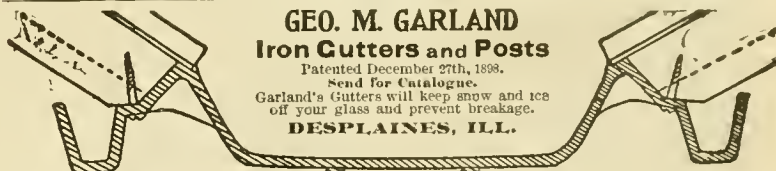
Mention the Florists' Exchange when writing.

GEO. M. GARLAND Iron Cutters and Posts

Patented December 27th, 1898.

Send for Catalogue. Garland's Cutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

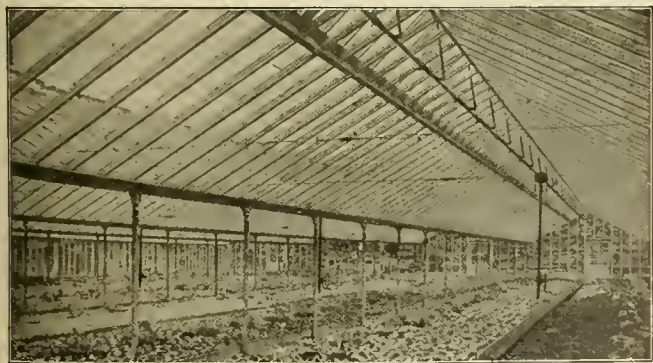
75,000 SQUARE FEET GLASS SURFACE

The above figures represent commercial heating contracts already signed for the season of 1905. An opportunity to estimate on your proposed heating work will be to your interest. Select any good make of boiler you prefer and I will base my estimate accordingly.

Everything for Heating.

WM. H. LUTTON, Heating and Ventilating, West Side Ave. Station, Jersey City, N. J. Telephone 174 J, Bergen. Agent for FURMAN BOILERS, KROESCHELL BOILERS.

Mention the Florists' Exchange when writing.



Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the Best that Can be Produced.

Catalogue, plans and estimates free on request.

A. DIETSCH & CO., Patentee, 615-21 Sheffield Ave., CHICAGO.

Mention the Florists' Exchange when writing.

"Music hath charms" so has the

GREENHOUSE MATERIAL

produced by

THE FOLEY MANUFACTURING CO.

471 W. 22ND ST. CHICAGO

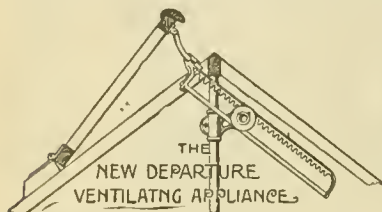
Cypress woodwork & hot-dried sash, Tennessee Red Cedar posts
FOLEY ventilating apparatus & hardware specialties
Galvanized screw eyes, screwhooks, turnbuckles & wire
Send for free illustrated catalogue!!

Mention the Florists' Exchange when writing.

THE KING CONSTRUCTION CO.

New Roof Construction, Automatic Stokers, Water Tube Steam Boilers, Automatic and Hand Ventilators.

North Tonawanda, N. Y.
32 Church St., Toronto, Can.



COSTS LESS and does better work. Send for Descriptive Price List

J. D. CARMODY
EVANSVILLE, IND.

ASPARAGUS DECUMBENS, 3 in. pnts, 76c per doz.; \$5.00 per 100.
ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100; \$15.00 per 1000; 500 at 1000 rate.
ASPARAGUS SPRENGERI, strong, 3 in., 76c per doz.; \$5.00 per 100.
CARNATIONS. Rooted cuttings. Write for prices and varieties.
CLEMATIS PANICULATA, 4 in., \$1.50 per doz.; \$10.00 per 100.
EUNYMUS, golden leaved, 2-year-old plants, \$1.50 per doz.; \$10.00 per 100.

11th & Jefferson Sts.,
C. EISELE, PHILADELPHIA, PA
Mention the Florists' Exchange when writing.



Mention the Florists' Exchange when writing.

Hitchings' NEW MCGUL BOILERS

For Hot Water or Steam

HOT WATER Radiation from 4,200 Square Feet and Up.
STEAM Radiation from 2,600 Square Feet and Up.

Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.

HITCHINGS & CO.
Horticultural Architects and Builders
233 Mercer St., NEW YORK.
ESTABLISHED 1844.

Mention the Florists' Exchange when writing.

A. HERRMANN
Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES

FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK
OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.

WRITE FOR NEW CATALOGUE

THE PIERSON-SEFTON CO.

Horticultural Architects and Builders
West Side Ave., So. JERSEY CITY, N. J.

Pierson Boilers

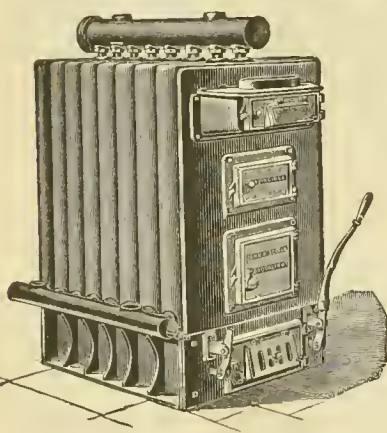
For Steam and Water are unsurpassed for efficiency and economy

Messrs. Righter & Barton, Madison, N. J., write: "August 6, 1904. The two 'Pierson' sectional hot water boilers installed for our new houses one year ago gave exceptional satisfaction during the past winter, the most severe for many years, easily fulfilling what was expected of them, at the same time proving to be economical. We found them very easy to manage, that they responded promptly and heated the water in short time, thus giving splendid control of temperature in houses when sudden drop took place outside."

This is only One of Many WE ALSO MANUFACTURE AND SUPPLY FITTINGS, VALVES, PIPE AND EVERYTHING FOR HEATING

Write for Catalogue and Prices

Mention the Florists' Exchange when writing.



Scollay Invincible Boilers
FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequaled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.
Horticultural building of every description.

JOHN A. SCOLLAY
72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.
Established 42 Years

Mention the Florists' Exchange when writing.

GLASS For GREENHOUSES, GRAPERIES, HOTBELT CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.

N. COWEN'S SON, 392-94 W. Broadway, NEW YORK
Mention the Florists' Exchange when writing.

H. BAYERSDORFER & CO.
Importers and Manufacturers of
FLORISTS' SUPPLIES
Immortelles, Ruscus Wreaths and Baskets for Plants
IN MANY STYLES
50 to 56 N. Fourth St., - - Philadelphia, Pa.
SEND FOR CATALOGUE
Mention the Florists' Exchange when writing.

NICOTICIDE KILLS

Green Fly Mr. J. A. Budlong, Chicago, Thrips
March 11, 1904, says:

"We have been using Nicoticide on our whole place now for some time and find it the most satisfactory fumigant we have ever used. We heat entirely by steam, and paint it on the pipes when hot. This application works well and is certainly very effectual."

THE TOBACCO WAREHOUSING & TRADING CO., LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT

WIDELY IMITATED BUT NEVER EQUALED

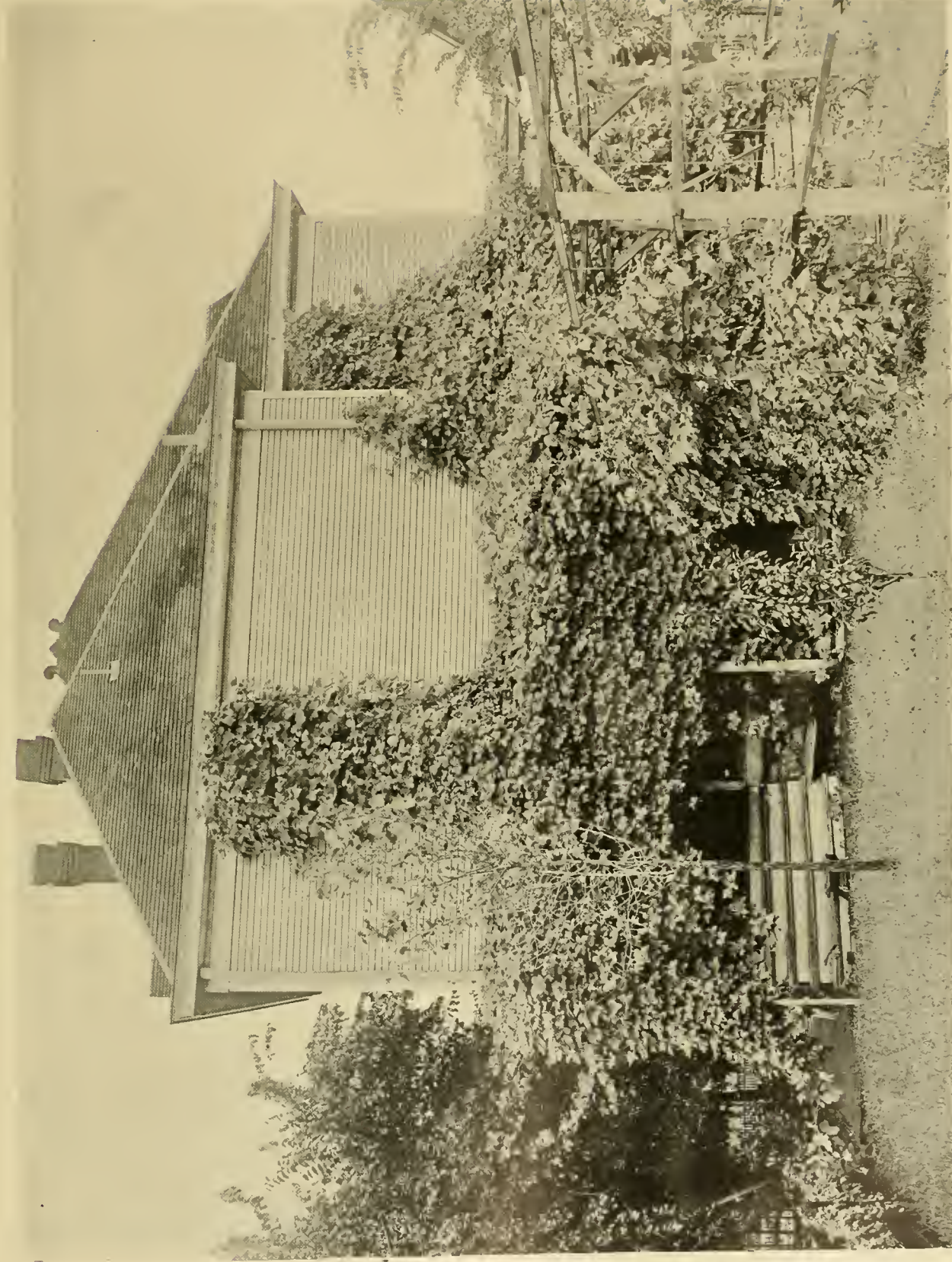
UNIFORM AND ALWAYS EFFECTIVE

DONT ACCEPT INFERIOR IMITATIONS
PRICE 60c PER BOX OF 12 SHEETS
\$6.50 PER CASE OF TWELVE BOXES.

NICOTINE MFG. CO. ST. LOUIS, MO.

Mention the Florists' Exchange when writing.

Our Gallery of Fine Specimens



Copyrighted, 1905, by A. T. De La Mare Ptg. and Pub. Co. Ltd., New York

Plate 93

PUERARIA THUNBERGIANA (KUDZU VINE); also catalogued as DOLICHOS JAPONICUS

A valuable addition to the list of Hardy Vines, on account of its rapid growth. The leaves are large and handsome, of a light green color. The flowers, which appear in August and September, resemble those of the Wistaria, and are delightfully fragrant, possessing the perfume of ripe grapes, but the vine must be three or four years old before blossoms are produced. We are indebted to Mr. Edward Teas, Joplin, Mo., for the photograph herewith reproduced.

THE FLORISTS' EXCHANGE

Stone Export Stn. 106

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

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

Vol. XIX. No. 7

NEW YORK, FEBRUARY 18, 1905

One Dollar Per Year

CARNATIONS

STRONG ROOTED CUTTINGS

WE OFFER FIRST-CLASS STOCK OF THE FINEST VARIETIES

VARIEGATED LAWSON This variety which we are introducing this season we are sure will prove to be the very best variegated sort. Pure ivory white, with delicate carmine pencilings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, says that he knows that this variety will out-bloom the favorite Mrs. M. A. Patten three to one. It has the Lawson habit and stem, and is bound to give satisfaction. \$12.00 per 100; \$100.00 per 1000.

RED LAWSON A bright red sport of Lawson that is bound to be popular, and will be grown where Lawson is popular. \$10.00 per 100; \$75.00 per 1000.

CARDINAL Bright cardinal, or crimson-scarlet. Won first prize for best 100 scarlet, first prize for best 50 carnations, any color, first prize for best 50 scarlet seedlings, Chicago. \$12.00 per 100; \$100.00 per 1000.

FIANCEE The Queen of pink carnations; in a class by itself. Magnificent flowers, strictly fancy in every respect. \$12.00 per 100; \$100.00 per 1000.

FRED. BURKI Recommended as an extra free-blooming white variety and a claimant for popular favor. \$12.00 per 100; \$100.00 per 1000.

WHITE LAWSON We consider this variety, which we introduced last season, the most profitable white carnation ever sent out. We think it will outbloom any other white two to one. It has given great satisfaction. When the flowers are left on the plants until fully developed they are much larger than Mrs. Thos. W. Lawson. We believe this will occupy among white carnations the same place that Mrs. Thos. W. Lawson does among pink carnations. Remember that we are headquarters for it. Splendid stock, ready for immediate delivery. \$7.00 per 100; \$60.00 per 1000.

LADY BOUNTIFUL A magnificent white of last season's introduction. \$6.00 per 100; \$50.00 per 1000.

DAHEIM Dark crimson; grand stiff stem; Calyx never bursts. Free and abundant bloomer, developing very quickly. We consider this the best all-round crimson carnation. \$6.00 per 100; \$50.00 per 1000.

MRS. M. A. PATTEN This grand variegated carnation has given splendid satisfaction. \$6.00 per 100; \$50.00 per 1000.

ENCHANTRESS Freest blooming, bringing highest market prices. In great demand. \$4.00 per 100; \$30.00 per 1000.

MRS. THOS. W. LAWSON \$3.00 per 100; \$20.00 per 1000.

PROSPERITY A magnificent fancy carnation. \$3.00 per 100; \$20.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

Mention the Florists' Exchange when writing.

We are now prepared to book orders for 1906 for

THE COMING SCARLET CARNATION

VICTORY

This is a real bread-and-butter variety. An early, free, and abundant bloomer, with good stem; a magnificent keeper and shipper; flower of the largest size, commanding the very highest price. This is going to be a money-maker.

Orders will be filled in rotation, as received. Delivery beginning December next. \$12.00 per 100; \$100.00 per 1000.

BULBS

For Spring Planting and Summer Flowering

BUY FROM HEADQUARTERS

	Per 100	1000		Per 100	1000
GLADIOLUS—Selected Bulbs.			DAHLIAS. Large Field Olumps		
American hybrids, mixed	\$1.00	\$8.50	Named kinds. Separate. Our selection. Ask for list of named sorts.		
Very fine mixed	.90	7.50	Cactus, Show, Fancy and Pompon	\$5.50	\$50.00
Second size mixed	.85	7.00	Double Mixed, all colors	3.00	25.00
White and Light, best to be had	1.50	13.50	TUBEROSES.		
GLADIOLUS—Florists' Forcing Sorts.			Excelior Double Pearl. Doz.		
Augusta, fat size	3.00	25.00	Mammoth bulbs, 6 to 8 in.	\$0.30	2.00 15.00
" pure white, selected	4.00	30.00	4 to 8 in. around	.20	1.00 7.50
May, Daybreak color	1.50	12.00	let size, 3 to 4 in.	.15	.60 4.00
Shakespeare, white and rose	4.50	40.00	LILIUM.		
REGONIAS—Tuberous-rooted.			Auratum, 8 to 9 in.	75	4.25 38.00
Single, bulbs 1 1/4 in. and up, separate colors, white, red, pink, yellow and orange	2.00	18.50	" 9 to 11 in.	1.25	7.50 87.00
Double, large bulbs, 1 1/4 in. and upward			Speciosum Rubrum.		
Separate colors, or mixed	3.50	30.00	8 to 9 in.	1.00	6.00 50.00
CALADIUMS—(Elephant's Ear).			9 to 11 in.	1.50	7.50 70.00
Bulbs, 6 to 8 in. circumference	1.50	12.50	Speciosum Album.		
" 8 " 10 " "	3.00	25.00	8 to 9 in.	1.25	7.00 60.00
" 10 " 12 " "	5.00	45.00	9 to 11 in.	2.00	12.00
" 12 in. and over \$1.50 per doz.	10.00		MONTRETIAS.		
Fancy-Leaved, named sorts, large bulbs, \$1.25 per doz.	7.50	60.00	Named sorts	1.50	12.00
Mixed sorts, large bulbs, 80c. per doz.	6.00	65.00	OXALIS. In variety	.25	1.75
GLOXINIAS—Choice Stock.			TIGRIDIAS. mixed	2.00	15.00
Named varieties, very large bulbs; separate colors: white, purple, red, blue, spotted and tigered, or all colors mixed, 60c. per doz.	3.50	30.00	TRITOMA PFITZERI.	6.00	55.00
CINNAMON VINES.			ISMENE GRANDIFL.	7.50	65.00
Largest size tubers	2.50	20.00	MADEIRA VINES.		
First	2.00	15.00	Large roots	1.50	10.00

CANNAS Large dormant pieces, with two to three eyes. For varieties and prices see our ad. elsewhere in this paper.



CLUCAS & BODDINGTON CO. 812-814 GREENWICH ST. N. Y. CITY
 Corner Jane Street. Telephone, 1063 Chelsea.
PALISADE NURSERIES, SPARKILL, N. Y.
 Importers, Exporters and Growers of SEEDS, BULBS and PLANTS
 Mention the Florists' Exchange when writing.

ROSE STOCK

Now is the Time to Order for Summer Flowering

KAISERIN and CARNOT

2 1/4-inch pots, { \$4.00 per 100
 { \$35.00 per 1000

BRIDE and BRIDESMAID

2 1/4-inch pots, { \$4.00 per 100
 { \$35.00 per 1000

I have splendid plants of

AMERICAN BEAUTY,

clean and free from spot, \$6.00 per 100, \$50.00 per 1000.

All my Rose plants are in the best condition and free from mildew. Will be pleased to send sample on application. Now is the time to order.

W. H. ELLIOTT, Brighton, Mass.

Mention the Florists' Exchange when writing.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

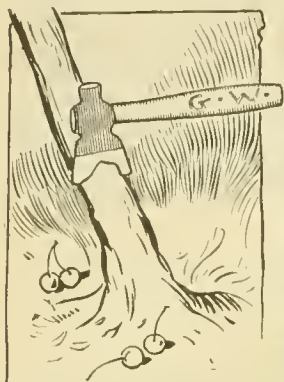
Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

3,000 ETHEL WARD	\$7.00 per 100	2,000 PROSPERITY	\$2.00 per 100
2,000 THE PRESIDENT	\$60 per 1000	3,000 MACKINAC	\$15.00 per 1000
2,000 WHITE LAWSON		2,000 THE BELLE	\$6.00
5,000 ENCHANTRESS	\$4.00 per 100	2,000 LADY BOUNTIFUL	Per 100
2,000 CHRISTMAS EVE	\$30 per 1000	3,000 JUDGE HINSDALE	
2,000 GOLDEN EAGLE	\$5.00 per 100	2,000 MRS. PATTEN	\$50.00
1,000 HARRY FENN	\$3.00 per 100	2,000 NELSON FISHER	Per 1000
5,000 LAWSON	\$25.00 per 1000	2,000 OCTOON	
		2,000 FLAMINGO	

50 of a kind at 100 rate; 250 of a kind at 1000 rate

COTTAGE GARDENS COMPANY (INC.), Queens, N. Y.
 C. W. WARD, Manager



WASHINGTON BIRTHDAY ITEMS

- ASPARAGUS Plumoseus Nanus, just received, 100 seeds 75c.; 1000 seeds, \$8.50.
- Sprenger, 1904 crop, 100 seeds, 20c.; 1000 seeds, 75c.
- COBÆA SCANDENS Trade pkt. Oz. \$0.15 \$0.30
- SMILAX California-grown .10 .35
- ASTERS Branching, in colors .25 .60
- DRACÆNA INDIVISA .10 .30
- MIGNONETTE Allen's Defiance .15 .60
- SALVIA Bonfire .25 2.50
- STOCKS Cut-and-Come-Again .25 3.00

SHEEP MANURE Western Sterilized, per ton, \$20.00; per 100 lbs., \$1.25.
BAMBOO CANES Extra fine, clean stock, average 6 to 8 feet, 1 cr 11(1), \$6.0
WM. ELLIOTT & SONS, NEW YORK
 Mention the Florists' Exchange when writing.

GROFF'S HYBRID GLADIOLI

First-Class Corms, \$2.00 per 100
 Second Size, 1.50 " "
 Small (blooming) one inch and under, .75 " "
 Cash with order, please.

W. F. MASSEY, Raleigh, N. C.
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DAHLIAS



Mrs. Winters, the World's best white, strong tubers, \$10.00 per 100.
 Ingeborg England, best scarlet cactus, \$3.00 per doz., \$20.00 per 100.
 Many other novelties and standard varieties.
 Willmore's Dahlias have long been celebrated for prize winning.
 Also Double Field-grown HOLLY-HOCKS, true to color, \$3.00 per 100. Send for catalogue.

W. W. WILMORE
 Dahlia Specialist, Box 382, DENVER, COL.

QUALITY FIRST NEW ASTER KATE LOCK

BEEN GROWN 43 IN. HIGH.
 Finest Aster in existence. Blooms 5 to 6 inches in diameter, full centers, stems 35 to 43 inches. Shown at largest Exhibitions in Canada and taken everything before it. Colors: White, Day-break and mixed. \$2.00 per 1000 Seeds. No Agents.

Originator, J. H. LOCK, 41 Manchester Ave., Toronto, Ontario.
 Mention the Florists' Exchange when writing.

It takes \$20,000 worth of postage stamps to mail

the Maule SEED

catalogue for 1905. It contains 152 large pages, full of illustrations and descriptions of the best and newest things known in horticulture. No gardener can afford to be without this book, which will be sent free to all sending me their address on a postal card.

Wm. Henry Maule, Philadelphia, Pa.
 Mention the Florists' Exchange when writing.

GOLD MEDAL STRAIN BEGONIAS TUBEROUS ROOTED

	Per doz.	100		Per doz.	100
Single White	\$0.35	\$2.25	Double White	\$0.65	\$5.00
" Yellow	.35	2.25	" Yellow	.65	5.00
" Nankon	.35	2.25	" Orange	.65	5.00
" Pink	.35	2.25	" Rosa	.65	5.00
" Rose	.35	2.25	" Dark Rose	.65	5.00
" Red	.35	2.25	" Dark Red	.65	5.00
" Dark Red	.35	2.25	" Red	.65	5.00
" Salmon	.35	2.25	" Salmon	.65	5.00
" Orange	.35	2.25	" Mixed	.50	4.00
" Mixed	.30	2.00			

STUMPP & WALTER CO., 50 Barclay St., New York
 Branch Store 404 East 34th St., N. Y.
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ASTER SEED

Simple's Shell-pink and White
 These are the most beautiful Asters grown.
 Oz., 40c.; Lb., \$5.00.
A. W. SAMPSON, Penn Yan, N. Y.
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NARCISSUS

We have a long list of well-pleased customers. Let us quote you prices on our Guernsey-grown bulbs.
TUBEROUS BEGONIAS For bedding. Write for prices.
HUBERT & CO.
 N. LE PAGE, Rep., Mt. Vernon, N. Y.

THE HARDY ANNUAL OF THE CENTURY

Nicotiana Sanderæ
 Seeds in original packets at 25c. each.
 Wholesale Agents for the United States:
 H. A. DEER, Philadelphia, Pa.;
 J. M. THORBURN & Co., Cortlandt St., New York;
 VAUGHAN'S SEED STORE, Chicago and New York.

Summer Flowering BULBS

Iemene Grandifera	100	1000
Madela Vines	\$5.00	\$50.00
Spotted Callas	1.00	8.00
Tritoma Pfitzeri	3.00	25.00
Gладиол, mixed, 1 1/4 in. diam.	7.00	60.00
	.60	5.00

HEADQUARTERS FOR LILIES, APOIS, CALADIUMS, ETC.
 Eight per cent. discount for cash.
 Special price on large quantities.
JOHN LEWIS CHILDS, Floral Park, N. Y.



LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION
 Per case of 3000 for - - - \$24.00
 Two or more cases at \$7.50 per 1000
J. M. THORBURN & CO.
 36 Cortlandt St. New York
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GREGORY'S SEED CATALOGUE FOR 1905
 Examine our seed stock of onions, cabbages, carrots and beets and you will know why
GREGORY'S SEEDS
 have a reputation. You will find in our new catalogue a remarkable new drumhead cabbage, recently discovered, head and shoulders above all varieties now raised. Catalogue free.
 J. J. H. GREGORY & SON, Marblehead, Mass.
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F. W. O. SCHMITZ
 PRINCE BAY, N. Y.
 Wholesale Importer and Exporter of
Bulbs, Plants, Roots, Etc.
 All Inquiries Cheerfully Answered

Half Million Augusta Gladiolus
 IN DIFFERENT SIZES
 1st size, 2 inch and up.
 2d size, 1 1/2 inch, 1 1/4 inch.
 3d size, 1 1/4 inch, 1 1/2 inch.
 WHITE & LIGHT
 1st size, 1 1/2 inch, 1 1/4 inch.
 2d size, 1 1/4 inch, 1 1/2 inch.
 Ask for prices on the different sizes; send stamps for sample.
 Long Island is known all over the world for the production of the best Gladiol Corms. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.
 Address all orders to
ROWEHL & GRANZ, Hicksville, L. I., N. Y.

Asparagus Plumosus Nanus Seed
 True Stock, Lath House Grown, \$2.00 per 1,000. Ready March and April.
SMILAX SEED.—\$1.50 per lb., ready in June. Special prices on large orders.
SMILAX PLANTS.—Out-of-Door Seed Beds. Strong, 18 months old. \$20.00 per 1,000.
 Will exchange for Malden Hair Fern and Rooted Carnations Cuttings of Enchantress, Harlowarden, Lawson, Queen Louise, Prosperity, Geo. M. Bradt, Flan-see, Cardinal.

E. R. MESERVE
 Long Beach, California
 Mention the Florists' Exchange when writing.

FOR EASTER

FORCING SHRUBS see advt. February 11
FOR FORCING BULBS and RELIABLE SEEDS send for our list and look out for our advt February 26
H. H. BERGER & CO., 47 Barclay St., New York
 Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of **GLADIOLI AT THE WORLD'S FAIR**
 It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.
 Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
 Mention the Florists' Exchange when writing.

BURPEE'S SEEDS GROW AND WIN MORE PRIZES
 than the products of any other brand! Besides several Gold Medals, they won a Grand Prize for vegetables at the St. Louis Exposition. If you intend to try Burpee's Seeds, we will mail free our Complete Catalogue of 178 pages, with beautifully colored plates and illustrations from photographs taken at our famous Fernbeck Farms, the largest Trial Grounds in America. If you garden for profit or are a florist you should also have Burpee's "Blue List" or Wholesale Price List for Market Gardeners and Florists. Write TO-DAY!
W. ATLEE BURPEE & CO., SEED GROWERS, PHILADELPHIA
 Mention the Florists' Exchange when writing.

CANNAS
 Dormant Roots { Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italia, Aus- } \$15.00 per 1000; \$2.00 per 100.
 Large Pieces, 2, { tria, Queen Charlotte, Paul Marquant, Flamingo, Shenandoah } Mixed All Colors
 3 and More Eyes { (dark foliage), Fair Persian, Morning Star, M. Washington } \$10.00 per 1000; \$1.50 per 100.
CLUCAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK
 Mention the Florists' Exchange when writing.

BEGONIAS BULBS GLOXINIAS

Table listing prices for various Begonias and Gloxinias, including single and double varieties in different colors and sizes.

Write for our New Wholesale List for Florists. JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.

Asparagus Plumosus Nanus Seed

Greenhouse grown, \$4.50 per 1000. SMUEL S. PENNOCK, The Wholesale Florist of Philadelphia

GLADIOLI BULBS

Shakespeare, sizes 1 & 2; E. Scribe, 1 & 2; No. 1900, 2, 3, & 4; Augusta, 2, 3, & 4; also small sizes about 1/2 to 3/4 in. at \$3.50, and 5-16 to 1/2 in. at \$5.00 per 1000.

JOHN FAY KENNEL, R. F. D., CHILI CENTER, N. Y. Mention the Florists' Exchange when writing.

LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an unintroducted seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100 Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 6 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co. WEST GROVE, PA.

Mention the Florists' Exchange when writing.

ROSES

400,000 Roses in 2 in. pots, for lining out, \$25.00 to \$35.00 per 1000. Send for wholesale list for varieties, Small shrubs for transplanting. See wholesale list. 100 varieties of Hardy Herbaceous Plants in 50,000 field-grown Phlox, in 30 varieties, \$6.00 per 100. Will be ready for delivery May 1st.

LARGE SHRUBS

Table listing prices for large shrubs including Hydrangea P. G., Weigela, Althaea, Spiraea, and Ampelopsis Veitchii.

BOXWOOD.

Table listing prices for boxwood in various sizes and quantities.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

Mention the Florists' Exchange when writing.

FLORIST'S PLANT STAKES

(Dowel) LILY STAKES—WOOD (Unpainted)

Table listing prices for lily stakes in various lengths and diameters.

We can supply the above dyed green, 50c. per 1000 additional.

STAKES FOR HYACINTHS AND TULIPS

Table listing prices for stakes for hyacinths and tulips.

RAFFIA Dyed Green for Tying

Natural color, for Tying, 15c. per lb.; 10 lb. lots, \$1.25

For complete list of STAKES, FLOWER SEEDS, BULBS and FLORIST'S SUPPLIES see our New Wholesale List, mailed free on request.

Henry F. Michell Co. Seed Growers and Importers 1018 MARKET STREET, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

New Crop Flower Seeds for Present Sowing



Vaughan's Carlson Aster

SPARAGUS PLUMOSUS MANUS

New Crop, Greenhouse-Grown Seed, per 1000 seeds, 75c.; 2500 seeds, \$1.50; 1000 seeds, \$5.00. Mammoth Robustus, new, per 100 seeds, \$1.00; 1000 seeds, \$10.00. Sprenger, 100 seeds, 15c.; 1000 seeds, 75c.; 5000 seeds, \$3.25.

Table listing prices for various flower seeds including Lyssum and Mpelopsis Veitchii.

ASTERS.

CARLSON, a selection of the Peony flowered type. Now the favorite in Chicago cut flower market. Height, 36 inches. Comes into bloom before the Branching Aster; white, rose, pink, lavender, Marquis pink, violet blue, Daybreak pink and mixed; trade pkt., 20c.; any 3 for 50c.; 1/2 oz., 50c.; oz., \$1.50.

Table listing prices for various types of asters including Queen of the Market, Simple's Branching, Truffant Perfection, Victoria, Hohenzollern Extra Early, BALSAM, BEGONIA, CANDYTUFT, CELOSIA, and CENTAUREA.

MIGNONETTE, Giant Machet, selected

Table listing prices for various flower seeds including Mimulus, Pansy, Petunia, Pyrethrum, Salvia, Stocks, Thunbergia, Verbena, and Vinca.

CANNAS Dormant roots, 2, 3 and more eyes, Alba, Austria, Allemania, Burbank, Buttercup, F. Vaughan, Mme. Crozy, Black Prince, Bouvier, F. Marquand, Italls, Escandale, Robusta, Metallica, red leaf, \$2.00 per 100; \$15.00 per 1000; mixed, \$10.00 per 1000. Shellroad Greenhouses, Grange P. O., Balto., Md.

Mention the Florists' Exchange when writing.

WARD'S HIGH GRADE Bulbs & Plants RALPH M. WARD & CO. 17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY. Catalogues free on application. WEEBER & DON, Seed Merchants and Growers, 114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

HOLLYHOCKS—Choice Seeds

We offer superb, separate single colors, 6 kinds, 90c. per oz. We offer superb single colors, 8 kinds mixed, 80c. per oz. Double Hollyhocks, in 6 separate colors, 90c. per oz. Double Hollyhocks, 6 varieties mixed, 80c. per oz. Hollyhocks, strong field plants, double colors, \$5.00 per 100. Hollyhocks, strong field plants, single colors, \$5.00 per 100. Cash with order, please. JOHN CHARLTON & SONS, Rochester, N. Y.

Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANTS

SEND FOR CATALOGUE. ARTHUR T. BODDINGTON 342 West 14th St., New York.

Mention the Florists' Exchange when writing.

VAUGHAN'S SEED STORE, 14 Barclay St., NEW YORK

Mention the Florists' Exchange when writing.

CRIMSON RAMBLER

15950—No. 1, own roots..... \$12.00 per 100
 24825—No. 2, " " " " " " 8.00 " "
 Northern-grown, for delivery December 20.

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**
 Mention the Florists' Exchange when writing.



The BAY STATE NURSERIES

have a great variety of TREES, SHRUBS, VINES and ROSES in COLD STORAGE. The Stock is all CAREFULLY GRADED and ready for IMMEDIATE SHIPMENT.

Write for complete lists and let us know your wants.
 Wholesale Trade List on application.

THE BAY STATE NURSERIES, North Abington, Mass
 Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

A commercial estimate puts the 1904 bean crop of Michigan at about 4,000,000 bushels, 16 per cent. of which is unsound and fit only for feed for livestock.

DES MOINES, IA.—George A. Taylor and Charles E. Rogers have opened up a seed and feed store at 416 East Locust street. They will do a general gardening and seed business, carrying farm, garden and flower seeds in stock.

ANGERS, FRANCE.—Mr. Samson, well known in the foreign trade, he having traveled abroad the past eight years, has severed his connection with Messrs. Peignaux & Lorin, and has entered into partnership with Mr. Fillon, also in the seed trade. The new firm will be styled Samson & Fillon, and will make a specialty of growing seeds on contract. The capital is \$8,000.

TRAVERSE CITY, MICH.—Over 1,000 acres of seed peas have been contracted for with farmers of Leelanau County from one firm alone. This section of the State is one of the best for raising seed peas and beans, many thousand acres being contracted for annually.

CAPE VINCENT, N. Y.—The Cleveland Seed Company has been on the verge of going to Avon, N. Y., for some time past. It owns about 20 acres of land there, and the new building, the erection of which will probably cost in

the neighborhood of \$20,000, will be located on this land, and work will be commenced as soon as the frost leaves the ground. The company has made application to be exempt from the corporation tax of Livingston County for a period of ten years, the decision regarding which will influence the proposed removal.

TESTING CORN FOR SEED.—Bulletin (No. 96) issued by the University of Illinois Agricultural Experiment Station, is devoted to this subject. Several methods of testing are described and illustrated. It is stated that:

"The low vitality of seed corn the past season was no doubt caused very largely by freezing weather while the corn was either still in the field or not sufficiently cured to withstand the low temperature. It is to be hoped that the Fall of 1903 was an exceptional one in this respect, and that our recent experience may not be repeated. There is no way to guard against such falling temperatures, however. Moreover, if a season comes when our seed corn is frozen before it is put into storage, there is no way to correct the disastrous effects even with the most modern means of storage, unless we have some method of sorting out the ears which are unfit for seed."

COLUMBUS, O.—The joint convention of Eastern and Western canners and allied interests was in session in this city for four days of last week. One of the ideas most prominently brought before the convention was that there had been a heavy "overpack" in 1904, and it was generally conceded that this season steps must be taken to call a halt and limit production; also to try to develop the foreign markets more extensively.

As the canning companies are in the habit of buying seeds in large quantities and distributing them among the growers with whom they have contracts, so as to maintain uniform and reliable standard grades and varieties, they are naturally considered good customers by the seed firms. Accordingly the latter were out in force, with fine sample lines of sweet corn, peas, beans,

W. & T. SMITH COMPANY

Geneva, N. Y.

Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vine Fruit Trees and Small Fruits.

WHOLESALE PRICE LIST SENT ON REQUEST

Mention the Florists' Exchange when writing.

tomatoes, etc. Those represented at the Auditorium exhibit and the hotel where the proceedings were held were The Livingston Seed Co., of this city; the Cleveland Seed Co., Goodwin-Harris Co.; D. M. Ferry Co., Everett B. Clark Co., Milford, Conn.; Jerome B. Rice Seed Co., Cambridge, N. Y.; S. D. Woodruff & Sons, Orange, Conn. B.

TREE, GRASS, CLOVER AND AGRICULTURAL SEEDS.—Conrad Appel, Darmstadt, reports: Quercus robur crop not so good as that of Quercus pedunculata (both, however, fair), Quercus rubra, on the other hand, is reported to have yielded very little, and Fagua sylvatica failed altogether. Acer platanoides and Acer pseudo-platanus, Alnus glutinosa and Alnus incana, Betula alba, Carpinus betulus, Fraxinus excelsior, have been secured in sufficient quantities. Picea excelsa has been doing well in some districts. The yield of Larix europaea is satisfactory and prices are cheap. Abies pectinata yielded an average crop, good quality. Pinus strobus, only in some isolated cases could average quantities be gathered on this side. The crop of Pinus cembra turned out very small, whereas Pinus maritima and Pinus montana, also Pinus corsica, are satisfactory in quantity and quality. Of Pinus austriaca little has been harvested and good quality is much in request.

The various kinds of grass seeds have already been dealt with in my crop report last August; it will be remembered that the crop had been declared very satisfactory, on the whole, and prices as being lower than what had been seen for years. Concerning the market of the American grass seeds it will be found that the very cheap price of Agrostis capillaris has practically undergone no change since Autumn, and it now actually calls for speculation. Festuca pratensis and Poa pratensis advanced a few shillings in price during the last month owing to some large contracts, which have been made, the prices are nevertheless unusually low, but the upward movement continues.

Red clover, it appears that the western district including the Palatinat will produce very little more, if anything, whereas the crop of Wurtemberg is now arriving on the market. It is, however, not expected that it will influence prices in any way, as the seed is rapidly bought up by dealers. White clover is exceptionally cheap and of excellent quality. Alsike yielded only an average crop in Germany, likewise in Canada, so that markets are higher than last year. Yellow trefoil is equally high in price owing to a short crop, and crimson clover has arrived at almost prohibitive prices, nearly all the stocks being cleared.—Horticultural Trade Journal, England.

European Notes.

Weather conditions just now a simply ideal so far as the preparation of the land for Spring sowings is concerned. Fine, bright days and light frosts at nights have turned our best land into a perfect seed bed, a helped to destroy some of the mass vermin which had accumulated during the mild Winters which have preceded the present.

The growers, however, are not in complainant and amiable a mood, the clerk of the weather. Planting onions, say they, when they will realize at market as much as \$80 per ton, is wasting money. Radish is low in price that it hardly pays to thresh yet, and the heavy surplus 1903 seed in Germany prevents a hope of an immediate rise. Further the orders from your side are mainly confined to more delicate and forced varieties, which, even in a good season barely cover cost of production, that it is no wonder that growers decline the trade.

In Germany the position is aggravated by the steady and persistent rise in the price of sugar, which has caused the roots of sugar beet to rise from 40 to 60 per cent. in value, a set the farmers all alive for growth these in preference to seed crops of other season. A general rise of price both for annual and biennial crops therefore inevitable, and one can honestly say that the demand is just.

As regards our plants for biennial crops, conditions are not so promising as we could wish. So long as the seed had practically no power they did appear to suffer from the frosts which have on several occasions been very severe; but with the lengthening of the days, and seven to eight hours bright sunshine, the plants of some of the smaller varieties of turnips, after being frozen at night, are drawn out of the ground by the thaw during the day, and many have consequent dried up. This, of course, principally affects those planted on our strongest and best land, but even on the light sandy lands much harm has been done. Rutabagas, being planted somewhat deeper, have not suffered to the same extent so far as we are able to judge at present. Beets and some of the mangel are still in the pits; parsnips, carrots and parsley do not show any signs of injury, and the same is true of brassicas up to now.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

JOHN D. IMLAY, Zanesville, O.—Catalogue of Seeds and Plants. Illustrations. The choicest sorts only are listed.

SCHLEGEL & FOTTLER COMPANY, Boston, Mass.—Market Gardeners' Price List of Seeds, Fertilizers and Sundries.

JOHN F. SNEED, Tyler, Tex.—Spring Surplus List of Fruit Trees, Nursery Stock, etc.

GALBRAITH NURSERIES, Fairbury, Neb.—Surplus List of Fruit Trees at Nursery Stock.

W. ATLEE BURPEE & CO., Philadelphia.—Wholesale Catalogue for Seedsmen and Dealers only, who buy to sell again.

FRANTZ DE LAET, Contach, Belgium.—Illustrated Catalogue of Cactus, Orchid and other Plants. Printed in French, German and English.

THE NUT NURSERY COMPANY, Monticello, Fla.—Illustrated Catalogue and Price List of Budded and Grafted Nut Trees.

EASTERN NURSERIES, M. M. Dawson, manager, Jamaica Plain, Mass.—Wholesale Trade List of Deciduous and Evergreen Trees and Shrubs, Vines, etc.

THE PLANTERS' SEED COMPANY, Springfield, Mo.—Illustrated Catalogue of Vegetable and Flower Seeds, Supplies, etc.

VAN HEININGEN BROS. & COMPANY, Boskoop, Holland. Branch Office J. C. Van Heiningen, care of Maltus Ware, 136 Water street, New York.—General Trade Catalogue of Nursery Stock.

F. W. DIXON, Holton, Kan.—Spring Catalogue of Small Fruits. Mr. Holton grows 6,000,000 strawberry plants, 500,000 other small fruit plants and large numbers of Asparagus and Rhubarb.

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NEW FRILLED BEGONIA.

TUBEROUS-ROOTED BECONIAS

- Single, scarlet, crimson, white, yellow, rose and orange, 40 cts. per doz.; \$3.00 per 100; \$25.00 per 1000.
- Single Mixed Colors, 35 cts. per doz.; \$2.30 per 100; \$22.00 per 1000.
- Double, scarlet, rose, white and yellow, 65 cts. per doz.; \$5.00 per 100; \$40.00 per 1000.
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GLOXINIAS

An extra fine strain, strong well matured bulbs, red, white, blue, red bordered white, blue bordered white, or choicest mixed, 50 cts. per doz.; \$4.00 per 100; \$35.00 per 1000.

FANCY-LEAVED CALADIUMS

- Choice named sorts, fine large bulbs..... \$1.25 per doz.; \$10.00 per 100.
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All of the above are offered in our Wholesale Price List. Copies sent to Florists on application.

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or early in July can be had from Fedder's Earliest Improved Large Tomatoes. They will average 1/2 lb. each. (I had them weigh 1 1/4 lbs.) They are bright scarlet, smooth as an apple, will not crack open, and will bear until frost kills them. 200 seeds from selected fruit 15c., 2 packets for 25c. HENRY FEDDER, 27 Exchange St., Danville, N. Y.

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100,000 well grown plants, 3 to 4 ft., selected, \$4.00 per 100; \$25.00 per 1000. 2 1/2 to 3 1/2 ft., 7 or more branches, \$2.50 per 100; \$17.50 per 1000; 20 to 25 ft., 5 or more branches, \$2.00 per 100; \$13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, \$1.50 per 100; \$7.00 per 1000. All of the above boxed, 4 c. D. here. For car or large lots write before placing your orders.

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An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

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LARGE TREES

Maple, Norway, fine Straight Stock, 2-2 1/2, 2 1/2-3, 3-4 in. diameter. Maple, Silver, 2-2 1/2, 2 1/2-3, 3-4 in. Maple, Negundo, 2-2 1/2.

Linden, American, 2 1/2-3, 3-4 in.

Argentea, 1 1/2-2, 2-2 1/2, 2 1/2-3.

Europaea, 1 1/2-2, 2-2 1/2.

Poplar, Carolina, 1 1/2-2, 2-2 1/2, 2 1/2-3.

Lombardy, 1 1/2-2, 2-2 1/2.

Bolleana, 1 1/2-2, 2-2 1/2.

Besides the above we have large stock of Planes, Ash, Birch, Willows in strong stock.

Evergreens in large sizes and great variety.

Flowering Shrubs in large variety.

California Privet, 2 years, 2-3 ft., very low in price. The above stock is all in very fine condition and will please. Get our prices.

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M. F. TIGER, Proprietor

Telephone Call, 23 F. PATCHOQUE, L. I.

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VAN DER WEIJDEN & CO.

THE NURSERIES, BOSKOOP (Holland)

Have a fine lot of high grade Nursery Stock at hand to fill your Spring orders; such as hardy Rhododendron, Boxwood, Blue Spruce (Koster's) 2-6 feet, extra fine. H. P. Standard roses and Hydrangea paniculata grandiflora (Cheap), etc. No agents. Ask for special prices.

For the Trade only.

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Wholesale Bulb Growers

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Until May write to

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Care Maltus & Ware, 136 Water St., - - New York

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WHAT DO YOU WANT?

2000 Hydrangea Paniculata Grandiflora, 2 ft. 8c.; 1 ft. 6c. 2000 Hydrangea Oakes, for 4 in., 6c.; 3 in., 4c. 2000 Spiraea Anthony Waterer, 2 years, strong, bushy, 6c.; medium 4c. 1000 Clematis Paniculata, 3 years, heavy, 10c. Clematis Jekmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Veitchii, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 6000 Stokesia Cyanes, field grown, \$2.00 per 100. 5000 best shrubs and vines, dahlias, etc. Send for list.

BENJ. CONNELL, West Grove, Pa.

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Hollandia BOSKOOP, HOLLAND

Nurseries

Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.

RHODODENDRONS, H. P. ROSES, Etc.

Catalogue free on demand.

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Vegetables

Tomato, Lorrillard and Sparr's Earliana, seed bed plants, 50c. per 100 by mail, \$2.00 per 1000 by express. Lettuce plants, transplanted, Big Boston and Tennis Ball, 35c. per 100, \$2.50 per 1000. Cauliflower, Snowball, strong, transplanted, \$1.00 per 100. GERANIUMS, 2 1/2-inch pots, strong, double mixed, the best heddere, \$2.50 per 100; strong stock plants from 6-inch pots, \$8.00 per 100. CANNAS, dormant roots, the latest and best varieties, \$2.00 per 100. Cash with order, please.

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FIRST-CLASS STANDARD ROSES

H. P. Varieties, in 100 and 1000 lots, at very low prices. List on application to our representative, HARRY VON KOOLBERGEN, care Maltus & Ware, 136 Water Street, New York.

OTTOLANDER & HOOFTMAN,

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Manetti Stocks

Just received in splendid condition.

No. 1, 5-10 mm., \$10.00 per 1000; \$95.00 per 10,000.

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TREES

Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country.

Gold Medal—Paris—Pan-American—St. Louis. 102 prizes New York State Fair, 1904.

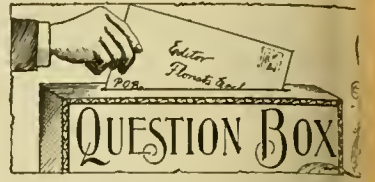
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ELLWANGER & BARRY

Mt. Hope Nurseries, Rochester, N. Y.

Drawer 1011 E. Established 65 Years.

Mention the Florists' Exchange when writing.



Shrubs Propagated from Mature Wood

(76) I should like to ask through the columns of The Florists' Exchange the best methods of growing shrubs; Hydrangea p. g., Eleagnus longip. hardy roses and other shrubs some what difficult of propagation from mature wood. I have planted quantities of these above named for several years past and only succeeded in getting a small proportion of them to grow, although they were well calloused and planted in good order.

E. T.

—My experience has been altogether with layering the growing shoots of this hydrangea, and then rooting from green cuttings under glass in Summer. I have read of those who have claimed to root them from hardwood cuttings. Eleagnus longipes can be propagated by layering, inarching or from seeds. I have not tried hardwood cuttings. Probably, if you made your rose cuttings in late Fall and had them buried in sand in a cool cellar in Winter, they would callous well by Spring, and would then be more likely to grow when planted out. They rarely root well when made and set up in an unprepared condition.

J. M.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

SIoux CITY, IA.—John L. Elder has removed his flower store to temporary quarters at 409 Fifth street.

ANOka, MINN.—Dr. Ford has sold his interest in the Pratt-Ford greenhouses to M. L. Fisch, of Windom, Minn. It is understood Dr. Ford intends moving to California.

GIRARD, O.—John Geddes has sold his greenhouses to William Gerke, an experienced florist of Cincinnati, who has taken charge.

ROCK ISLAND, ILL.—The Rock Island Flower Store was recently opened at 331 Twelfth street. It is under the management of H. H. Hensley.

KALAMAZOO, MICH.—W. C. Cook late manager floral and ornamental department of the Central Michigan Nursery, has resigned from that company and embarked in a general nursery, florist landscape and decorative business for himself. His address at present is 621 Mabel street. He will open a downtown office in the near future.

CAL. PRIVET

one, two and three years offer will be accepted on lots of 5,000 to carloads.

RIVER VIEW NURSERIES,

J. H. O'HAGAN, Little Silver, N. J.

Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.

Mention the Florists' Exchange when writing.

Vegetable Plants

Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.

Write for price list.

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SCOTTII

The Most Graceful and Symmetrical Nephrolepis Known;
Unexcelled as a House Plant

Admitted by all Judges, Growers and Retailers
to be the best commercial Nephrolepis in existence.

Awards Received by Nephrolepis Scottii:

Philadelphia, Pa.	SILVER MEDAL
Newport, R. I.	SILVER MEDAL
Boston	SILVER MEDAL
New York Florists' Club	SILVER MEDAL
S. A. F. O. H., St. Louis	SILVER MEDAL
American Institute, New York	SILVER MEDAL
New Orleans	GOLD MEDAL
St. Louis Show	GOLD MEDAL
World's Fair	GOLD MEDAL

Highest Award at Chicago, Ottawa and Toronto

First Class Certificates and Testimonials from all over the
country too numerous to mention



House of Scottii at my Flatbush Establishment

The COMMITTEE OF AWARDS at the St. Louis World's Fair said of NEPHROLEPIS SCOTTII: "A sturdy, Dwarf and compact form of NEPHROLEPIS, very symmetrical and handsome, either in small plants or quite large large ones. A great acquisition, with excellent qualities as a house plant. Worthy of Gold Medal."

Read carefully the best report ever given by New York Florists' Club
for a new plant.

The committee of award of the club visited the establishment of John Scott, of Flatbush, N. Y., on October 26, for the purpose of inspecting the stock of his new fern, NEPHROLEPIS SCOTTII. Seven members of the committee attended, also the president and vice-president of the club. The initial exhibit of this fern was made at the rooms of the club at the November meeting, 1903. The committee which examined it at that time was so favorably impressed by it that they unhesitatingly awarded it a certificate of merit, and did not ask to see it growing; a request to examine the stock was only recently sent to the club by the exhibitor. The committee made a thorough examination of the stock both in pots and on the bench, and character. It was growing in all sizes from plants in 4-inch pots up to specimen plants in tubs, and it was absolutely uniform, and were highly pleased at its condition form in all grades, the characteristics of the large specimen plants being evident in the smallest specimens on the place. **The most careful scrutiny failed to discover any tendency whatsoever toward reversion, and it seems as if the character of the plant is absolutely and indelibly fixed.** It is in essence a condensed form of the Boston fern, with valuable characteristics added, which are not evident in the parent. Your committee took an average plant in an 8-inch pot and found by actual count that there were 200 fronds in it, not counting the undeveloped and small ones which were in the center of the plant. The fronds of the plant in question averaged about 20 inches in length and three inches in width at the widest point; the pinnae are very closely set, so that they overlap, making a more finished frond than the parent. The plant in question had a spread of three feet. Plants in 4-inch pots showed a spread of 18 inches and a height of 10 to 12 inches. The committee was unanimously of the opinion that it is a most valuable introduction, and that it will become a plant for the florists to grow universally. It has a crispness and hardness about it which is superior to the parent, and which is one of its very valuable characteristics. It propagates very freely, and because of the fact that its character is established in the smallest size, it should find ready sale in all grades. After a thorough examination, your committee unanimously agreed that it was worthy of the highest award by the club and therefore voted that it be awarded the silver medal of the club, and herewith recommend same for your approval. (Signed) PATRICK O'MAHA, JOHN BIRNIE, ALFRED H. LANOJAHR, WM. H. SIEBRECHT, CHAS. LENKER, JOHN DEWBETT.

Scottii has received the highest awards whenever exhibited and for the past season has proven itself to be a **hardier house plant** than the Boston. There is no comparison between this fern and any other variety for commercial use.

Consult any grower, or retailer, who has bought Scottii, and they will tell you that it is as far ahead of the Boston as the Boston is ahead of all other introductions.

PRICES OF NEPHROLEPIS SCOTTII (March Delivery). All orders filled in rotation
2 1/4 inch, \$2.00 per doz.; \$15.00 per 100; \$125.00 per 1000. 6 inch, \$15.00 per doz.; \$100.00 per 100
25 at 100 rate; 250 at 1000 rate.

JOHN SCOTT, KEAP STREET GREENHOUSES
BROOKLYN, N. Y.
Branch—E. 45th St. and Rutland Rd., Flatbush Telephone, 1207 Williamsburg

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

EVERGREEN CULTIVATION IN HOLLAND.—Writing of his impressions of European nurseries, in the National Nurseryman for February, 1905, C. W. Ward, of Cottage Gardens, Queens, N. Y., has the following to say of the evergreens cultivated in Holland:

"There was but one criticism from my standpoint against the Holland nursery, and this was that stock, as a rule, was grown too close together and not given sufficient air space. This results in a very close heading in of the plants in order to keep them down and from interfering with each other. This sharp cutting and the lack of circulation of air and sunlight around the base of the plants produces, in many evergreens, a thinness at the bottom of the plant which deteriorates its value, and this could be obviated by giving the stock a little more room. However, there is some excuse for the Holland nurseryman crowding his land in the manner in which he does, and that is the high rental cost of the land used for nursery purposes. I found that the average rental land in the most favored nursery districts of Holland exceeded, in some instances, the purchase price of land within rifle shot of the Cottage Gardens."

Spiraea Prunifolia.

Japan has given us more valuable trees and shrubs than any other country, we think. This is certainly true as regards shrubs. The one we have before us, *Spiraea prunifolia*, is from that country, having been introduced from there in 1844, about the time the popular *Weigela rosea* came to us from the same part of the globe. *Spiraea prunifolia* always was popular, as it is to-day. Dozens of spiræas have been introduced since, and very many of them have become indispensable, but none of them is of the character of *S. prunifolia*. It, as the picture shows, makes long, slender, although stiff shoots, strong enough that even its flowers do not weigh them down, of any account. Then it is one of the earliest to bloom in Spring, and the color of the flowers is a clear white. The illustration represents the double form, which is the one the longer known. The single blooming sort, is in cultivation, but the double form is preferred.

The style of growth of the bush photographed is the natural one, but by pruning, it could be made quite different. We took this one as representing its character, but had it been pruned back almost to the ground when it had finished flowering the year before, it would have produced shoots which would have blossomed from the ground to the top of their growth. This sort of pruning all spiræas need; that is, a fair cutting back. We say "almost to the ground," referring to this one, because it represents a neglected specimen in the way of pruning; it appears to have had none for some years.

Planted near an evergreen, or some other dark looking object, white flowered shrubs appear to so much better advantage.

JOSEPH MEEHAN.

SAN FRANCISCO.—A distinguished arrival this first week in February is Mr. George Compere, Government Entomologist of Western Australia, and discoverer of the parasite which feeds upon the larvæ of the codling moth. He came direct from Spain, where he discovered the parasite, and is already busy at the headquarters of the California Commissioner of Horticulture, propagating the insect for shipment to the various counties of the State. Already nine counties have been supplied with the destroyer, and the tenth jar goes forward to-day, February 4. "Outside of Australia," Mr. Compere remarked, "California is the only State in America that has thus far shown any material interest in co-operative work with Australia in this important matter, and the result is, we now have here a parasite that will add millions to the pockets of the fruit-growers of California by combating the deadly work of the codling moth among the apple and pear trees."

ALVIN.

Crimson Weigelas.

There is no better selling shrub in the whole list than the weigela. It is one of the good old stand-bys all florists and nurserymen want, and which customers will ask for so long as a knowledge of what a good shrub is exists. Every season sees additions made to the already full list of varieties. Among many others those with crimson flowers are greatly admired. Almost, or quite, the first of these to be generally cultivated was one called *W. floribunda*. To this has been added others, *Voltaire* and *Eva Rathke* among them. The last named is the most popular at the present time, being of rather bushier habit and more floriferous than the others.

Mentioning bushiness; is there among all the weigelas a bushier or more worthy one than the first of all introduced, *W. rosea*? If there is, I have not seen it. It is my choice of all, new or old. *W. amabilis*, and its variegated-leaved variety, are good, but all the rest, while possessing features of merit and being sorts we would not like to dispense with, are either tall growers or straggling ones, not of the regular, bushy growth of *rosea*.

Florists find a great call for weigelas for Memorial Day uses, and for this purpose all are more or less valuable. To get them with long branches, such as the customer desires them to be, the bushes should be cut down close to the ground soon after flowering, or a good many of the shoots cut down to get the strong branches for next year's flowering.

Mentioning strong shoots, these are the ones to use now for cuttings, where increase of stock is desired. Get them at once; cut them into lengths of about seven inches; tie in bundles and store away in a cool cellar, in sand or soil, and plant them out the first thing in Spring. Weigelas grow readily from seeds,

Rock Roses.

My impression is that among the rock roses grown in England the *Cistus laurifolius* and *Cistus ladaniferus* are considered the hardiest, and that of these two the *ladaniferus* leads in hardness. Several of the hardiest sorts were tried in Philadelphia some years ago, and of all of them, *C. laurifolius* was the only one hardy, and it was perfectly hardy, growing partly under some large deciduous trees. There was but one mishap of it. It grew to be four to five feet high in time. This one, and to some extent all, have a gummy surface of the under leaf, the gum being of a pleasant odor, and this it is presumed is the reason the common name is gum cistus, as well as rock rose. As these species of *cistus* are not considered very hardy in England, it was a surprise and a pleasure to find that *C. laurifolius* would stand our cold climate, where it met zero almost every Winter. The flowers of this *cistus* are handsome. They are white, with a yellow mark at the base of each petal. Unfortunately, the blossoms soon fall, lasting but a day or two, but then the bush continues producing them for a month or more.

This *cistus* is a native of Southwestern Europe. Being an evergreen adds to its value with us, where we have none too many broad-leaved, hardy evergreens. Those who wish to plant this shrub should set it in a protected place, and let it be one where its wood will be well ripened by the time Winter comes. It would not be apt to succeed where damp soil caused a late growth. With a good strong plant in one's possession an increase could soon be had, using green cuttings, and rooting them indoors.

I do not think there are any of the *cistus* native of our country, but there are of its near ally, the *helianthemum*, ten or more growing wild in our Northern States, and these are sometimes called rock roses here.

Trees or Shrubs to Hold River Bank.

A Tennessee correspondent asks me to name some trees or shrubs which will hold river banks, and he suggests that those having low branches would be desirable, to stem the rush of water and so prevent less washing. Among trees there are none better than willows. They are surface rooters to a great extent, and then their growth, if not bushy naturally, can be easily made so by pruning. Red birch, ash-leaved maple and hornbeam are also good to use. All can be made of bushy growth, and in the matter of surface rooting it must not be forgotten that all trees become of that character when in wet ground. But the willows are, certainly, the best of all trees for the purposes named. In the way of shrubs, the red snowberry is a capital one to use. Its underground shoots, as well as its roots, are binding, holding the soil well; and then its branches are so tangled and so close growing that the water is held in check by them. Common berry is another good shrub; so is the bush honeysuckle, and even the California privet answers well. The value of vines is well known. Honeysuckles and wild grapes might be used, and these would be the more effective if planted in connection with some shrubs, as all would mass together above ground. Good stock should be planted, to give it a chance to get good hold before a flood came.

The same correspondent suggested some evergreens as being suitable, and desired some be named. But evergreens would not do at all. Floods would deposit all sorts of rubbish on their foliage on low branches. These branches would be covered up with sand and rubbish, and would be killed thereby. And without this reason for their rejection there is another, in the fact that they would not thrive in such a situation.

Pruning Rhododendrons.

When rhododendrons are exposed to severe Winters without protection being given them, they often suffer badly; in some cases, not only are the leaves killed, but part of the branches as well. When this is the case, do not hesitate to cut them back well. It is a mistake to try to save them without the pruning when their wood is injured, evidently. It calls for the same treatment when the plants become straggling, and bushier shaped ones are desired. Cut them down as you would a deciduous shrub; they will break freely, and by the following Autumn their appearance will have become greatly improved.

Last Winter, though not a severe one, tested the hardness of many rhododendrons. In my own case, two supposed entirely hardy were badly hurt. I refer to *Minnie* and *Purpureum elegans*. When their condition was noticed in Spring they were cut down, as afore recommended, and by Autumn both had made nice bushes, as only some inches of the top were hurt.

JOSEPH MEEHAN.

Vassar Girl State Horticulturist.

NEW BRUNSWICK, N. J.—Miss Jean Voorhees, daughter of Director Edward Voorhees, of the State Agricultural Experiment Station, is filling the position of horticulturist at the station, formerly held by Professor Alvah Jordan, who resigned. She will probably get the official appointment. She is a graduate of Vassar, class of 1904.



SPIRÆA PRUNIFOLIA

and where the seeds are saved from sorts growing close together, great variation from types will occur, many of them worthy of propagation.

Roses as Ramblers.

Many of the climbing roses could be set out to grow at will as bushes, with little or no attempt at pruning them. When so grown they form large clumps of great beauty. Last season some large clumps of the wild prairie rose, *R. setigera*, and of the Japanese, *R. multiflora*, grown in this way, were objects of great attraction when in flower. These and similar climbing roses may be set out on banks, in a half wild state, and let ramble at will. Both the *setigera* and *multiflora* planted this way make a profuse display of flowers. The *Wichuraiana*, known as the memorial rose, is often planted in like positions, but its habit of lying almost prostrate on the ground fits it for uses other than the half wild one the others suit so well. The *setigera* and *multiflora* will, when the plants are strong, make shoots ten to twelve feet in length, and these shoots produce a mass of flowers the season following. Our landscape gardeners have found how useful these and similar roses are for massing purposes.

The *setigera* is usually one of those planted, both because of its beautiful single pink flowers and that it blooms later than the others.

Contents.

Table with 2 columns: Article Title and Page Number. Includes 'Among the Growers', 'A Modern Bulb Forcing Establishment', 'Boston Flower Show', etc.

Table with 2 columns: Article Title and Page Number. Includes 'Ottolander & Hooftman', 'New York', 'The Week's News', etc.

Table with 2 columns: Article Title and Page Number. Includes 'The Week's News', 'The New York Bowling Club', 'The Ladies' Night at the Florists' Club', etc.

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THE STANDARD TREATISE ON GARDENING.

THE GARDENER'S ASSISTANT

New Edition.

UNDER THE DIRECTION AND GENERAL EDITORSHIP OF

WILLIAM WATSON

Curator, Royal Gardens, Kew.

Thoroughly Up-to-Date; The Recognized Authority on Gardening; Most Distinguished Contributors; Lavish in Illustration; Indispensable to Practical Florists and Gardeners, to Country Gentlemen and the Amateur. A Complete Encyclopedia of Gardening. The Leader Among Gardening Books.

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The publishers in this new edition have given this monumental work such a **complete remodeling, revision and extension** as will enable it to hold in the twentieth century the place which it worthily filled throughout the latter half of the nineteenth. It is so thoroughly up-to-date, and is so comprehensive in scope, as to constitute a **complete encyclopedia** of all that is known about the science and art of gardening. No one who wishes to excel in gardening, either as a business, or a hobby, can afford to be without it.

THE GARDENER'S ASSISTANT is a compendium of all operations of the garden and arboretum; from the formation of the garden and plant-houses to the cultivation of all kinds of plants, whether for use or ornament: trees, shrubs, herbaceous and alpine plants, stove and greenhouse plants, orchids, ferns, succulents; fruit, both under glass and in the orchard or kitchen-garden, and vegetables of all kinds.

Everything has been done that could be done to elucidate the text by the free use of **illustrations**. These represent recent gardening appliances, houses, heating apparatus, flowers, trees, diagrams, schemes for laying out the garden, methods of pruning, etc. In fact, wherever a picture would be useful a picture is given. Moreover, in addition to the black-and-white text illustrations, there are twenty-five full-page black-and-white plates, and eighteen colored plates of flowers and fruits, specially prepared for the work by eminent artists.

THE FIRST PORTION of the work deals with **GENERAL PRINCIPLES**; THE SECOND PORTION is devoted to directions for the **CULTIVATION OF DECORATIVE PLANTS OF ALL KINDS**—stove, greenhouse and hardy trees, shrubs and herbaceous plants; THE THIRD PORTION treats upon **FRUIT CULTIVATION** in all its branches, both under glass and outside; and THE FOURTH PORTION upon the **GROWTH AND MANAGEMENT OF VEGETABLES AND HERBS**.

THE GARDENER'S ASSISTANT has been made the **SOUNDDEST and MOST PRACTICAL**, as it is unquestionably the **NEWEST and MOST UP-TO-DATE**, Book on Horticulture.

SEND FOR PROSPECTUS.

We have obtained the exclusive right to the sale of this invaluable work in the United States. It is elegantly printed, on thick, durable paper, in two handsome imperial 8vo. volumes, substantially bound in Roxburgh, half leather, cloth sides, marbled edges, about 1300 pages.

PRICE, delivered free, by express, to any part of the country, cash with order, \$15.00. Money refunded if not satisfactory. Or, we will send purchaser the two volumes on receipt of a first payment of \$4.00 and six monthly payments thereafter of \$2.00 each.

A. T. DE LA MARE PRINTING AND PUBLISHING CO. Ltd., P. O. Box 1697, New York
Publishers and Proprietors THE FLORISTS' EXCHANGE.

The value of THE GARDENER'S ASSISTANT has been endorsed in this country by many of our leading gardeners. It can be purchased on easy monthly installments and should be in the hands of every gardener desirous of being thoroughly conversant with all the developments of his business.

We are Headquarters for all books in print touching on Horticultural Subjects. Write us for a Catalogue.

THE WEEK'S WORK.

Timme's Timely Teachings.

Potted Roses.

A shapely rose in a clean pot, showing a goodly number of buds and some open flowers, is a fast selling plant at any time, but especially so at Easter, or on Decoration Day. Easter is late this year, but it is now time to slowly start the plants into renewed activity to have them come on time, if wanted for that holiday. They will likely be backward in root formation, if potted up last November, since plants in their dormant state cannot be expected to do much in the making of new fibers. But now, when started in a temperature of 45 or 50 degrees, the deficiency in active roots will soon be made up, and in a few weeks the temperature may safely be raised to 55 degrees, and later, if found to be necessary, to 60.

Favorite varieties of the hybrid perpetual and hybrid tea classes and a few of the so-called monthlies can all be grown into attractive and fast selling specimens, by observing the simple rules which govern the raising of pot plants of a hardy, woody and more or less deciduous nature. These are: Strong, thrifty plants to start with, good soil, firm potting, thoroughly ripened wood, judicious and timely pruning during and after the first season's growth, an adequate period of rest, followed by a final growing season as close to natural conditions as is possible and consistent with gentle forcing.

The night temperature, when starting the hybrid remontant varieties, should not exceed 50 degrees in the first three weeks, to assure, above all, an even, plump and healthy break of growth. After this a little more heat is beneficial; but extreme forcing will not reward the grower with a stand of plants showing as healthy a foliage, or blooms as finely colored and of such firm texture, as those grown and flowered in a temperature between 55 and 58 degrees. A greater heat may be employed in the forcing of roses that are fully pot-established, such as were carried through the preceding Summer in their pots, having received their final shift in the Spring. While this old and approved mode of culture may entail a trifle more labor and care, it is by all odds yet the best, safest and most successful way of raising pot roses. The wood of plants, so treated, ripens earlier and more thoroughly, and is followed by a more even break all around, and the plants can be forced into bloom quite early, if this should be considered an advantage. Plants, pot grown, are not so robust and vigorous, it is true, as those from the field, but with most of the best hybrid perpetual roses even this may be regarded as a point of merit rather than a defect in the pot culture of strong growing roses. This method, as being the most reliable, has long since been adopted by the retail grower with limited bench room, who raises a few hundreds of the choicest and well-tried varieties of hardy hybrid roses in pots from year to year, not merely for his plant trade alone, but chiefly as stock furnishing him with a fine supply of cut roses from the middle of March until June. Such plants will do good service for several years in succession, if they are in the hands of an experienced grower.

The application of liquid manure before flowering, one yearly shift right after they have done blooming, and a sunny exposure all Summer outdoors well watered and sprinkled, and the pots sunk up to their rims into the ground, prepares them for another round of productiveness. If well managed, some of the varieties will ripen their wood early enough to enable the gardener, after having given them a good rest, to force them into full bloom by Christmas, as we used to do some twenty years ago with the variety, General Jacqueminot, and whenever the experiment proved a success, the profits were great.

Nice, thrifty roses of the hardy sorts are now most called for, when, not long ago, almost any kind of rose was

acceptable, if only in bloom. Every buyer of a rose in a pot must first be satisfied as to its hardiness, and then cares little whether all the flowers are out or not, as long as the color can be determined.

In forcing roses, the aphid, red spider and black spot are kept down by regular fumigation, frequent sprinkling and abundant ventilation, but drafts of cold air must not directly strike the plants, or the worst disfigurement to roses—a mildewed foliage—will be the consequence.

Where potted roses are grown mainly for a supply of choice cut blooms for early Spring, the grafted or budded stock can be relied upon as giving good results and throwing an abundance of flowering wood. But the plants need close attention and do not recover from a term of hard forcing to the full extent of becoming good forcing material for a following season. For this reason most growers, working on these lines, prefer roses on own roots, and for the pot-plant trade, grafted roses are hardly ever used, since they would have to be watched all Summer while growing in the field, make good potting a difficult job, and eventually cause trouble or disappointment to our patrons, when roses on their own roots if planted out and of the hardy class would give entire satisfaction.

Bedding Roses.

Any amount of young rose stock is purchased every Spring, especially for Summer bedding. Growers, lacking the proper article, often sell some of their 3 and 4-inch indoor rose stock, so as not to lose this particular kind of trade. Sometimes even the old plants done and worthless, are sold out of the bench for this purpose. This should not be, and the difficulty of raising good roses in our gardens should not be made greater than it already is. There are a few varieties of the so-called ever blooming class, and one or two from the hardier hybrid sections which do fairly well in the open during our Summers, and have given ample, if not entire, satisfaction. The best of these are: President Carnot, Maman Cochet, both the pink and white variety, Douglas, La France, Clothilde Soupert, Dinsmore and Kaiserin Augusta Victoria. These will make a rose bed look somewhat respectable, and will produce flowers worth picking.

Good stock in this line is such that has been obtained by last Summer's propagation, and should be ready for its last shift into 4-inch pots in about two weeks from now. A higher priced but much better class of plants is provided in the stock raised in the field last Summer, potted up in the Fall, kept in a place cool enough to let in slight frosts occasionally, and now placed on a light bench in a cool house, where the plants may remain until warm Spring weather furnishes all the heat wanted for their development into fine plants for bedding purposes. The best selling sizes are the 4-inch plants which also have proved to be the most profitable to handle.

FRED W. TIMME.

Your Advertisement

GO S

Among the Best Buyers in the Trade when it appears

IN

The Florists' Exchange

CHRYSANTHEMUMS

Standard Large-Flowering Varieties

40c. per doz.; \$2.00 per 100; \$17.50 per 1000.

Bonnaffon. Clear golden yellow.
Col. D. Appleton. Large, globular yellow.
Black Hawk. Dark crimson.
Glory of the Pacific. Early, deep pink.
Golden Wedding. Grand, golden yellow.
Ivory. An old favorite white.
Mrs. Henry Robinson. Fine, early white.

Maud Dean. Large incurved pink, of fine form.
Mrs. J. Jones. Beautiful, waxy white.
Mrs. O. P. Bassett. Light, clear yellow.
Minerva. Large, incurved golden yellow.
Rose Owen. Early; light pink.
Timothy Eaton. Large, white, incurved.

HARDY CHRYSANTHEMUMS, Large-Flowering or Aster Varieties, the best for Decorating or Bunching

50c. per doz.; \$3.00 per 100; \$20.00 per 1000.

Allentown. Beautiful silver bronze.
Allice Carey. Crimson-salmon; very dwarf.
Ashbury. Sulphur-white.
Blenheim. Magnificent silver pink.
Bohemia. Fine, pure yellow.
Cerise Queen. Beautiful cerise pink.
Constance. Large; large pink, open center.
Cowenton. Fine; scarlet-bronze.
Daybreak. Daybreak pink.
Duluth. Pleasing shade of pink.
Ethel. Exquisite; violet-red, long sprays.
Fred J. Red-orange.
Gloire de France. Silver pink.
Hester. Pearl white, shaded white.
Hijos. Beautiful primrose pink.
Henrietta. Bright bronze.
Joppa. Violet-crimson.
Lady de Vaul. Violet-pink.

Mrs. Vincent. Deep red violet.
Montclair. Red-orange, open center.
Peto. Terra cotta red.
Prince of Wales. Best pure white.
Queen of Bul. Violet-rose.
Ruby Queen. Dark, ruby red.
Salem. Clear rose-pink, white disc, open center.
Sir Michael. Lemon-yellow, open center.
Sir Walter Raleigh. Large terra cotta, open center.
Sis Hopkins. Silver bronze.
Sœur Melaine. Dwarf, pure white.
St. Anselm. Pure white, open center.
Stratagem. Dark red-orange.
Sunset. Scarlet bronze, golden center.
Tisri. Dwarf; violet-red.
Winfred. Beautiful soft pink.



SINGLE VARIETIES. 50c. per doz.; \$3.00 per 100.

Aaron. Bronze scarlet.
Leo Niessen. Scarlet-salmon.
Miss Marguerite. Bright scarlet, yellow disc.
Othello. Bronze orange.
Princess of Thule. Red-orange.

Providence. Large; snow-white.
Romeo. Salmon-pink.
Rosy Florn. Silver pink.
Wallis. Beautiful, clear golden pink.

SMALL-FLOWERED OR BUTTON VARIETIES. The Best for Bedding or Planting in Borders.

40c. per doz.; \$2.00 per 100; \$17.50 per 1000.

Anna Mary. Creamy white, tipped pink.
Anne Arundel. Orange, tipped scarlet.
Captivation. Rose pink, yellow shading.
Dawn. Daybreak pink.
Dinizulu. Violet-pink; fine for long sprays.
Dundee. Scarlet-maroon.
Edna. Beautiful, glowing violet-red.
Emotion. Silver pink.
Erminie. Bright orange-scarlet.
Fashion. Malze-yellow.
Golden Pheasant. Deep orange-yellow.
Jack. Violet-rose.

Goldfinch. Golden yellow, shaded crimson.
James Boon. Pure white.
Leo. Pure golden yellow.
Nellie Rainsford. Dwarf, bronze-pink.
Norwood. Pearl white, open center.
Paragon. Pure white, open center.
President. Rich, violet-red.
Princess Louise. Yellow and tawny red.
Rhoda. Pink, shaded white.
Rosinantes. Dwarf; blush, sulphur shading.
Rosy Sun. Crimson-maroon.
Tennyson. Pure yellow.

Our Collection of HARDY POMPON CHRYSANTHEMUMS is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

VEGETABLE PLANTS

CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per 100; \$1.00 per 1000; \$8.50 per 10,000.
PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.
LETTUCE Big Boston, Boston Market and Grand Rapids, 25 cts. per 100; \$1.00 per 1000.
TOMATO Lorillard seed bed plants, 50c. per 100, by mail; \$2.00 per 1000, express. 2 1/4 in. pot plants, 40c. per doz., \$2.00 per 100.

Miscellaneous Plants

2 1/4-In. stock in A1 condition.

Abutilon, Savitzki..... \$2.00
 Ageratum, Dwarf White and Stella Gurney..... 40c. per doz.; 2.00
 Alyssum, Dwarf White and Giant Double..... 40c. per doz.; 2.00
 Alternanthera, red and yellow in var..... 2.00 \$15.00
 Aquilegia (Columbine), single mix'd 3.00
 Cannas, 10 var., 3 in. pots... 4.00
 Carnations, Dwarf Hardy mixed 1.50
 " Marguerite..... 1.50
 Celena, in good variety..... 2.00 15.00
 Cnidoscolus (Oleander Plant)..... 2.00
 Delphinium Formosum..... 1.50
 Ficus Elastica, (Rubber Plant), per dozen, \$1.00.....
 Fuchsias, Black Prince & Minnesota. 2.00
 Gaillardia Grandiflora. 3.00
 Geraniums, Rose, Lemon, Mrs. Taylor and Fernifolia odorata..... 2.00
 Hardy Chrysanthemums, small-flowering varieties..... 2.00
 Hardy Chrysanthemums, large-flowering varieties..... 3.00
 Our collection of Hardy Chrysanthemums was awarded the diploma at New York by the American Institute.

Not less than five of any one variety sold.

MISCELLANEOUS PLANTS

(Continued)

	Per 100	1000
Hardy Phlox, 10 named var.	\$3.00	
Hardy English Ivy	2.00	\$15.00
Heliotrope, good varieties.....	2.00	17.50
Hibiscus, 3 varieties.....	3.00	
Hollyhock, double white and mixed, 3 in pots.....	3.00	
Lemon Verbena	2.50	17.50
Lantanas, 10 varieties.....	2.00	17.50
Maranta Massangana	4.00	
Moonvines, white and blue, 60c. per dozen	3.00	
Pansies, fine mixed	1.50	
Peonias, Dreer's double mixed.....	2.50	
" 5 named varieties.....	3.00	
" Dreer's superb single mixed.....	2.00	
" fine mixed	1.50	
Sage, Holt's Mammoth	2.00	15.00
Salvias, in variety	2.00	17.50
Smilax, strong.....	2.00	15.00
Stevia, variegated	2.00	
Swainsona Alha and Rosea.....	2.00	17.50
Sweet William, double mixed, 3 in. 3.00		
Verbenas, white, purple and scarlet separate.....	2.00	

GERANIUMS

Good, strong stocky plants, from 2 1/4 in. pots.
Doubles. Bruntil, Centaur, Comtesse de Harcourt, Double General Grant, Gloire de France, Jean Vaud, La Favorite, Le Cid, Mme. Canovers, Mme. Charotte, Mme. Jaulin, Mme. Ladyry, Mies Kendall, Miss Frances Perkins.
Singles. Grandville, Mme. Brunt, Mrs. E. O. Hill, Queen of the West, Single General Grant.
 40 cts. per doz., \$2.00 per 100, \$17.50 per 1000, providing that not less than 200 of any one variety. Send for our descriptive Geranium Catalogue.

DAHLIA ROOTS

Good selection of standard varieties, \$5.00 per 100; \$40.00 per 1000. Mixed, \$4.00 per 100; \$35.00 per 1000.

CASH WITH ORDER, PLEASE. SEND FOR TRADE PRICE LIST. Write for special price on large lots of anything in this list.

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

FOUNDED IN 1888



A Weekly [Medium of] Interchange for Florists, Nurserymen, Seedsmen and the Trade in general

Exclusively a Trade Paper.

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Electrotypes of the illustrations used in this paper can usually be supplied by the publishers. Prices on application.

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United States, Canada and Mexico, \$1.00. Foreign countries in postal union, \$2.50. Payable in advance. Remit by Express Money Order, draft on New York, Post Office Money Order or Registered Letter.

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ADVERTISING RATES.

One-half inch, 75c.; ¾ inch, \$1.00; 1 inch, \$1.25. Special positions extra. Send for Rate Card, showing discount of 10c., 15c., 25c. or 35c. per inch on continuous advertising. For rates on Wants, etc., see column for Classified Advertisements.

Copy must reach this office Thursday morning to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

The Week's News in Brief.

J. A. Pettigrew, superintendent of parks, Boston, is on the sick list, threatened with pneumonia.

The Wellesley rose was the principal feature at a dinner decoration in Boston the past week.

St. Valentine's Day created an increased demand for violets, carnations and sweet peas in some cities.

Numerous barges containing coal were crushed by the ice and sunk in the Ohio river at Cincinnati the past week.

George Purdue, florist, East Orange, N. J., has failed in business; liabilities, \$14,000; assets, half that amount.

A carnation show will be held by the Gardeners' Club, of Baltimore, Md., Monday, February 27. Exhibits are solicited.

In recent decorations in Horticultural Hall, Philadelphia, flowering plants have been more extensively used than cut flowers.

B. L. Elliott, of Pittsburg, Pa., has sold his greenhouses, and will visit California. On his return he may enter some other business.

The St. Louis Flower and Plant Growers' Club has been organized. It excludes wholesale cut flower men and retailers from its membership.

P. Randolph, Pittsburg, a lover and very successful grower of ferns, thinks Nephrolepis Scottii the best for commercial uses, and is growing it in quantities.

The next meeting of the Pennsylvania Horticultural Society will be held on the afternoon of Tuesday, instead of the evening as heretofore; the hour is 3-30.

F. R. Pierson refused a shipment of belated exhibition carnation flowers at Boston, from the express company. The blooms were afterward sold by a commission house, realizing good prices.

A successful carnation show was held by the Massachusetts Horticultural Society Saturday last, at which the two flower markets donated prizes. The variety Victory was awarded the society's silver medal.

Pittsburg florists, who depend on natural gas for greenhouse heating, have experienced some trouble on account of short supply during this severe weather. Other fuel was substituted, and no loss or damage resulted.

Peter Murray, Fairhaven, Mass., has sold the entire stock of his new light pink carnation Winsor to the F. R. Pierson Co., of Tarrytown, N. Y. The variety was certificated on Saturday last by the Massachusetts Horticultural Society.

The Washington (D. C.) Florists' Club is to take steps to combat the soft coal ordinance, as well as the master builders' bill, about to be introduced to Congress. Should the latter bill become law it would prevent anyone in the trade, locally, from erecting his own greenhouses or making repairs without the services of a master builder.

The Horticulturist as an Advertiser.

Despite its importance, advertising is a subject that rarely engages the attention of our horticultural societies, for the reason that it is very seldom presented to them for consideration and discussion. It is, therefore, with pleasure that we note that "The Horticulturist as an Advertiser," formed the theme of one of the essayists, W. N. Scarff, at the recent meeting of the Miami (O.) Horticultural Society. Mr. Scarff is a firm believer in advertising. It matters not what our vocation, he says, it is necessary to advertise it and to let the public know what we do and what we have for sale, and, among other things, the following sound advice is given:

"A strong point in advertising is persistency. Keep everlastingly at it. Every day, every week, every year. The majority of advertisers fail from this one cause; they become enthusiastic about some business, make one attempt at advertising, and expect one effort to be sufficient for them, and to create a business equal to that which others have worked a lifetime to establish. The successful advertisers and the successful business firms of the land are not the product of a year, but have grown from small beginnings that have often been handed down from generation to generation, and developed strength from year to year by honest, upright dealings, until they are what you see to-day. Another mistake often made by young advertisers is in not having the goods to deliver that they advertise. It costs practically the same to advertise a few dollars' worth of stock as it does to advertise thousands of dollars' worth. The first thing, then, to do, is to produce the goods and afterward advertise them. Never advertise that which you do not have or cannot furnish, as nothing throws cold water on business so quickly as to fail to do what you agree. People must have confidence in your ability before they will trade with you. The small things in an advertising career are what need careful study, and the details and minor points are the keys that unlock many difficulties in a business of this kind, and one must be willing to give his best efforts to his business, his entire time, and bend every energy toward making it a success. If he is not willing to do this he must be content with being classed along with the average."

We are firmly of the opinion that it would be to the advantage of members of others of our organizations to take up and discuss the very important business essential—advertising. There is no man more competent to speak on the subject, to set forth its advantages or drawbacks (if any of the latter exist), than he who has gained his knowledge by experience, and in every association are to be found men qualified along this line. It may be said that the only way to learn whether or not advertising is profitable is to advertise. But there is a possibility of haphazard, indiscriminate advertising proving anything but profitable. For instance, to advertise at random in all the publications devoted to the industry in which one is engaged, may be profitable as a first venture, only for its educational value; but to continue such advertising, that has been found of the non-paying sort, is a clear waste of money.

We think much help could be rendered the craft generally by a full discussion of the advertising question at our conventions and meetings; and such discussion will certainly be beneficial if it serve no other useful purpose than to bring about a closer investigation by the tradesman into the subject of his advertising outlays, and how from these his best paying returns may result.

John Thorpe, writing in the Chicago Tribune on the subject of the florists' business and its development in America, says among other things:

"As a business investment, floriculture stands on equally as good a basis as do other well established occupations. It is a business requiring strict and constant attention, because the subject dealt with is life, and that brooks no slight without injury. It is a business of detail and requires twenty-four hours' attention each and every day. The man or boy who selects the florist's business for an occupation should be sure that he will not only like it, but love it. With that and due industry I think there is no profession which affords as much pleasure as does the florist's in its many and ever changing phases. There is no net scale of wages, but the wages average as good or better than is to be had in any other trade of like caliber. Men with good knowledge get \$15 to \$18 per week or more. Good foremen command \$22, \$25 to \$30 per week, and, like every other calling, there is always room at the top. The work is of the pleasantest kind and is not laborious, though the hours are sometimes long."

OUR READERS' VIEWS

(Contributions to this Column are Always Welcome.)

Taking Carnation Cuttings.

Editor Florists' Exchange:

I do not agree with Mr. Knopf when, in his note on taking cuttings, he says the base cutting will make just as good a plant as any cutting will make. The California men think the same; but you'll find the best growers don't use base cuttings. I think using base cuttings has spoiled many a good variety and one for example, is Gibson Beauty. Ask Mr. J. D. Thompson, and I think, he'll say the same. W. R. PIERSON.

[Will Mr. Thompson kindly favor The Florists' Exchange readers with his views on this subject. We should like, also, to hear from other carnation growers.]

Gladiolus in Greenhouses.

Editor Florists' Exchange:

In your issue of February 4 I observe that Fred W. Timme makes the statement in regard to planting gladiolus corms in the greenhouse bench, to "press the corms into the soil just out of sight." Mr. Timme's instructions are hardly in consonance with modern methods of indoor culture for the gladiolus.

Outdoors, gladiolus, if planted near the surface, especially on account of the winds, by the time the plants began to produce bloom, they would be flat on the ground. Not only that, but the new bulbs formed would be exposed to weather conditions—sun, and, if planted late, early frosts—both of which would damage the new bulb. Indoors, of course, we have not the wind to contend with, but there are still the sun conditions, which would affect the bulbs. It is well known the new bulb, formed on top of the old one, throws out roots after it becomes established. These roots must be protected by the soil, and exposure of them would even be brought about in shallow planting, by slight watering. Then, too, there would not be sufficient strength in the roots to hold the plant erect for blooming, if not planted deeper in the bench than Mr. Timme recommends. If growers of gladiolus were to follow Mr. Timme's suggestion, and plant no deeper than he advises, they would find the sale of their flower spikes unprofitable by reason of there being no demand for such crooked stalks as certainly would be formed by the stems tipping over, which could not be prevented without tying, and no one wants to go to the expense and trouble of that work.

I would advise that the corms be planted no less than two inches, and preferably three inches deep, rather than near the surface of the soil.

Berlin, N. Y.

ARTHUR COWEE.



George V. Thielmann.

George V. Thielmann, the retail florist, 323 Division street, Chicago, died February 3, at Sierra Madre Cal. The deceased had been ailing for the past two years and went to California last Fall in the hope of regaining his health. He was 42 years of age, and leaves a wife and five children. The family has the sympathy of his many friends in the trade in their bereavement. The funeral was held February 13, interment being at St. Boniface Cemetery. R. J.

Our London Letter.

BY A. HEMSLEY.

THERE IS a proposition afloat to hold a market exhibition of chrysanthemums and flowering subjects, also all other market plants, and to utilize the Covent Garden Flower Market for the purpose, the show to be held about a week or so before Christmas. If this can be properly carried out, it should be one of the most important horticultural events of the year, and as popular as the great Christmas Fat Stock Show.

THE ROYAL HORTICULTURAL SOCIETY failing to secure the grounds at Holland House, have arranged to hold the Summer show in the grounds of Chelsea Hospital; this will occur on July 11, 12 and 13. The usual Spring show will be held in the Temple Gardens on May 30-31, and June 1. Other meetings follow regularly at the new hall every fortnight from February 14 (the annual meeting). The shows at the hall grow in importance, and no visitors interested in horticulture should fail to look in if they happen to be in London when a meeting is on. Not only new and rare plants are now to be seen at these meetings, but we get extensive displays of all the most useful plants in season, and there are often some rare old introductions which have been almost lost to cultivation. The hall is a grand structure, and very different to what was expected from the plans and illustrations first seen. And now that we have so much better accommodation we may expect to get exhibitors from all parts; no one who has a novelty, or new plant, should miss sending it to these meetings. It will pay to do so, even if it is from America.

CHRYSANTHEMUMS, LATE SORTS.—We are getting some good additions to those which keep well through January; and of these Winter Cheer, a deep mauve pink, a sport from Mme. Felix Perrin, is one of the best. Messrs. Low & Co., of Uxbridge, who introduced it, have been bringing it to market in fine condition, and the first week in February it was as good as when first seen some weeks previously. It is a general favorite with florists, and realizes top prices. Market Gold, from H. J. Jones, is a fine deep golden yellow; the flowers seen at the end of January were very bright and fresh. It will be surprising if this does not prove the best yellow for late market work. Mme. Louis Charnet, which Mr. Henderson, of Chestnut, did so well a year ago, has been equally good with him this season, but some growers have failed to get it to color well. It is, however, a valuable late variety. Godfrey's Winter Queen is a

fine late white, with long twisted florets, fresh blooms of which are still seen in the market; and I understand it will last for some time yet. Up to the middle of January Allman's Yellow was very fine; this is a deep yellow of medium size, with drooping florets and a full center. Wm. J. Thompson, though not new, is worth mentioning as being one of the best whites seen since Christmas. The best late crimson I have seen is Lady Violet Beaumont. In bronze we have nothing better than Tuxedo and Lord Brooke. Ethel Perry is a most promising pink of bright shade. The above are named as useful for market work, and not as exhibition blooms.

FRENCH FLOWERS.—We hear a good deal about the severe frosts which occurred some weeks ago, cutting off the supplies of flowers from the south of France, but really this is no loss to the ordinary florist, but rather a gain; for most of the French produce is sold on the streets to the detriment of the florist who has to pay rent, rates and taxes. It is also some advantage to the English growers, and though we sympathize with the growers in the south of France in their great loss, we cannot say that the English trade will be losers by it. Those who do cheap decorations may find it inconvenient not to be able to procure flowers quite so cheap.

Dwarf Fruit Trees.

Professor F. A. Waugh, horticulturist of the Massachusetts Agricultural College, was the speaker February 11, in the Horticultural Hall course, Boston, Mass. Professor Waugh's subject was "Dwarf Fruit Trees: Their Use, Propagation and Management," and he spoke in part as follows:

"There used to be considerable interest in dwarf fruit trees, 50 to 75 years ago. They nearly always were mentioned in the pomological discussions, and all the text books of that time made extended reference to their use and propagation. This was partly due to the fact that American horticulture at that time had not broken entirely away from the horticulture of Europe. Dwarf fruit trees always had been grown in the old country, and the European books gave a liberal attention to them.

"There was still another reason for the attention given to them, however, in the fact that they were considerably grown. At that time the great commercial interests of the present day had not come to the front. But during the last few years these commercial enterprises have monopolized our attention, and we have largely forgotten about the old-fashioned amateur horticulture to which the growing of dwarf fruit trees belongs. At the present time there are many indications that we are coming back to some of the old-fashioned ideas, especially as regards fruit growing. There is a lively renewal of interest in small grounds and gardens. These circumstances, along with others, are bringing dwarf fruit trees back to notice. In all probability they will come back into vogue to a certain extent.

"First of all, it may be proper to tell what a dwarf fruit tree is. A dwarf fruit tree is a simple one which is made to grow in smaller stature than the same variety reaches under ordinary conditions of treatment. There are three principal ways by which this dwarfing is secured. These are (1) propagation, (2) pruning, (3) training. The first method is by much the most important. A dwarf tree is nearly always propagated by budding or grafting on some kind of a root which grows slowly, and thus the slow-growing root checks the growth of the top to such an extent that the top is dwarfed. The commonest and most striking example is the propagation of dwarf pear trees. These are grown by budding ordinary varieties, such as Bartlett, Duchess or Anjou, on quince roots. Pruning has also been referred to as one of the means of dwarfing trees. Many trees are kept back to their small stature largely by this means. In a somewhat similar manner trees are retained in their small forms by training them; that is, by tying them upon a trellis or against a wall or to stakes, and preventing their growth beyond prescribed limits.

"The first question which comes up in presenting such a subject as this is that of its practical utility. Almost everyone will ask at once 'What is the value of dwarf fruit trees?' We may as well say at once that dwarf fruit trees are not very promising from a commercial point of view. They will not in any way rival standard trees for large orchards. I am inclined to believe that certain fine dessert varieties can be grown on dwarf trees for fancy trade where large prices may be secured.

"Dwarf trees are of value for interplanting in an orchard of standard trees. They come into bearing much earlier than standard trees and can be cut out at any time when the large trees require the entire space. Anyone who wishes to keep a large collection of apples, pears or plums, or who wishes to test new varieties, will find dwarf trees very desirable. They occupy much less ground and they bring the new varieties into bearing at a much earlier time. Anyone who wishes to grow a fine specimen for exhibition will find dwarf trees even more useful. As a rule, to which I do not know any exceptions, the finest specimens of apples, pears, peaches and plums can be grown on dwarf fruit trees. The greatest value of dwarf fruit trees, however, lies in their adaptability to the needs of small landowners. A large and increasing proportion of our population now live a suburban life. They are neither on the farms nor yet in the city. Such persons have only small grounds under cultivation and cannot grow many large trees.

"Dwarf trees are propagated by the usual methods of budding and grafting. They are more commonly

budded than grafted, although whip grafting, side grafting or veneer grafting may be successfully practiced with apples, or even with pears. In either case it is largely a matter of convenience. There is no difference in the tree after it has grown. A budded tree is just as good as a grafted tree and vice versa. The principal problem in the propagation of dwarf fruit trees is the choice of suitable stocks. Apples are usually dwarfed by propagating them on Paradise stock. Paradise is simply a very dwarf apple which is largely grown from layers. The young trees are cut off near the ground and are encouraged to throw up sprouts. These are covered over with earth, and when one or two years old the stools are taken up and divided. These Paradise stocks come from France, where this work is done chiefly. The Doucin stock also is used to some extent for dwarfing apples. It produces a tree midway between the very dwarf on Paradise and the ordinary standard form. Doucin stocks come also from France and are grown in the same way as Paradise stocks.

"Pears are practically always budded on quince stocks for dwarfing. The quince most used for this is Angers, which comes from France. A few varieties of pears will not form good unions on quince roots. Such varieties are 'double-worked.' The process of double-working is as follows: The quince root is budded with some variety, as Anjou, which grows



BEAUMONTIA GRANDIFLORA

Photo by W. H. Waite

well upon it. After this pear cion has grown one year the refractory variety, say Seckel or Dana's Hovey, is budded on the Anjou, upon which it makes a good union. The completed tree as it is planted in the orchard, then consists of three parts—the pear top of the desired variety, the quince root and the very short section of some other pear whose sole office is to unite the two uncongenial neighbors.

"Peaches and nectarines are dwarfed by working them on plum roots. They will grow fairly well on almost any good plum root. The Myrobalan plum, which is one of the easiest of all stocks to be worked, has been largely used. The peach also may be easily propagated on the dwarf sand cherry, which gives a good dwarf peach tree of specially small stature. The old rule for dwarfing plums was to work them on Myrobalan plum roots. A fairly small plum tree can be produced in this way, provided it is kept vigorously headed back. It is obvious that some still slower growing stock must be found if the requirements of the situation are to be fully met. In Iowa, Minnesota and the neighboring States, plums are very largely grafted on American roots; that is, on some of the seedlings of *Prunus americana*. These stocks produce a tree considerably dwarfed than those grown on the Myrobalan plums. Moreover, this stock is hardy, vigorous, healthy, and in all respects satisfactory. Another plum stock which has been extensively used in an experimental way, which offers special promise as a dwarfing stock for plums, is the sand cherry. This plant is native to Massachusetts, and, in fact, in some of its forms, to practically all the Northern States as far west as the Rocky Mountains.

"Dwarfed cherries are sometimes spoken of, but, for the most part, the so-called dwarfed cherries are merely such varieties as Morello, Vladimir and other North European sour cherries which never make a large tree. No really satisfactory dwarfing stock for the cherry is in commercial use.

"Dwarf trees are planted the same way as are standard trees, with two exceptions. First, they are usually planted shallower, for the reason that when deeply planted they sometimes take root from cions and cease to be dwarf trees. The second exception lies in the fact that they may be planted much more closely together. While thirty-five feet is looked upon as being proper spacing for standard trees, dwarfs may be planted eight or nine feet apart and, indeed,

can be well managed for a number of years at a distance of four to six feet.

"Dwarf trees usually are trained in some particular form. This training is not absolutely essential, but more or less of it is desirable in order to get the best results. There are almost infinite ways in which trees may be trained. Some of these ways are merely fantastic and only comparatively few of them are really useful. All the really practical ways can be easily reduced to eight, as shown in the following table:

"A. Trained in tree-like form; a. Pyramid, b. Bush. B. Trained with several branches in one vertical plane; a. Espalier, b. Fan espalier, c. Palmette-Verrier. C. Trained to single stems—Cordons; a. Upright, b. Inclined, c. Horizontal.

"The pruning of dwarf fruit trees, especially those trained in particular forms, is a somewhat complicated subject. Elaborate directions can be found in any of the European fruit books, but nothing has been written in detail on this subject in America. The general management of the tree can be best understood by referring to one of the simplest forms, say the vertical cordon. This tree is composed of a single stem along the sides of which fruit spurs are formed and fruit is borne. Each year this cordon is encouraged to throw up strong growing shoots or leaders at the top, and at the same time is prevented from making any strong wood growth along the sides of the stem. The strong shoots at the top feed the tree, or, as we sometimes say, 'they pump up the sap.' As fast as shoots start from the sides of the main stem they are pinched back. This pinching may be required six or eight times, possibly even more in the course of a Summer. This constant checking of the vegetative growth from the side buds on the stem tends to encourage the formation of fruit spurs and fruit buds in this region, which is, indeed, the fundamental object of the whole scheme of pruning. At the beginning of the succeeding year, the leading shoots at the top of the cordon are cut back almost or quite to the point where they began the previous year's growth. New shoots arise there, year after year, from almost the same point, to be annually sacrificed in the same way.

"Considerable skill and experience is required in pinching back the side shoots so as to encourage the formation of fruit spurs and buds. Different species require different treatment in this respect, since the fruit spurs form differently on different kinds of trees. Roughly, it may be said that with most fruit trees these side shoots should be pinched back as soon as they have made six leaves or earlier. They should be headed back to not more than four buds (or leaves). Many of them will promptly start again. This second growth should be headed back somewhat sooner. It should also be headed back more closely. If the shoot starts a third or fourth time as sometimes it does, it should be repeatedly pinched back, each time earlier and each time more severely.

"When fruit spurs become old and weak, as they will commonly do on the apple and pear after about five years, they should be cut out altogether or headed back to within an inch or so of the main stem. Sometimes a new growth will be secured from the base of the spur and this new growth can be promptly developed by a system of repression, outlined above, into a new fruit spur. In some cases where the fruit spurs die or have to be removed, it is even necessary and practicable to bud or graft in new shoots or new fruit spurs. This looks like a good deal of work to be given to a tree, but it is not more difficult or exacting than many things that we already do in our garden work.

"In conclusion, I wish to reiterate the statement that the growing of dwarf fruit trees is not urged upon the public. It is not recommended to everybody, and especially it is not claimed to be commercially practicable. On the other hand, it will bear serious consideration by all that large class of people who have small grounds of their own and who wish to grow a limited quantity of fine fruit for their own use. The large number of trees which can be put on a small area, and the comparatively early age at which they may be brought into bearing are considerations of prime importance in the eyes of all small landowners."

Beaumontia Grandiflora.

The subject of this note is a greenhouse climber with flowers of remarkable beauty, and very rarely seen in bloom, no doubt owing to its usually not having sufficient room to develop. It does best trained to the roof in a high house, where it can obtain plenty of light. Pot culture is not suited to this plant, and it should be planted in good, strong, fibrous loam.

W. H. WAITE.

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THE FLORISTS' EXCHANGE

The Retail Trade

FLORAL DOINGS AT WASHINGTON, D. C.—President and Mrs. Roosevelt gave a dinner, followed by a musical on Saturday last, it being Miss Alice Roosevelt's birthday. The centerpieces and vases were filled with freesia, and the corsage bouquets and boutonnières were made of Princess of Wales violets. The house was decorated with Azalea mollis, cinerarias, cyclamens and ferns.

Gude Brothers did the decoration for a dinner given by Speaker Cannon. The table was decorated with Liberty roses and the corsage bouquets were of lily of the valley and sweet peas. The vases in the parlors were filled with American Beauty roses, while groups of Harrisii lilies, azaleas and ferns were placed in every available space. This firm had a fine display of azaleas in the store window for St. Valentine's Day, arranged in the form of a heart.

George Shaffer had a large decoration on at Mrs. Talmage's. Bunches of 4-foot American Beauty and Lilium Harrisii were distributed throughout the house, southern smilax adorned the ceilings, and portieres of smilax were used on the doorways, with bunches of

the decorations for J. R. Whipple & Co., of Parker's, Young's and the Touraine.

JOHN W. DUNCAN.

The Boston Flower Show.

The first exhibition of the season of the Massachusetts Horticultural Society was successfully held on Saturday, February 11, and proved one of the best the society has ever held at this season of the year. The main hall, of course, contained all the exhibits, but it was well filled. It was practically a carnation show, more so on account of the two flower markets offering a list of special prizes for these flowers. There was a lively competition among the carnationists, and many fine vases of blooms were staged. It was to be regretted that the exhibition was so soon over; it closed at 4 o'clock, and it is to be hoped that new rules will soon be adopted by the exhibition committee, for to hold back the awards from the public until within an hour of closing time is rather unfair to both the visitors and to the exhibitors, especially when the latter are composed of the hard-working commercial men. The system of naming exhibits, judging, and again naming the successful exhibits by the committee of the Massachusetts Horticultural Society exhibitions is peculiar to itself, and is so anti-

was first; Patten & Co., second, and Peter Fisher, third. For the best vase of 25 blooms yellow, Patten & Co., were first, with Dorothy Whitney; Backer & Co., second, with the same variety, and the same firm, third, with Eldorado.

The special prizes and awards offered by the Boston Co-operative Flower Growers' Association were as follows: Carnations—Best vase 50 blooms, white, first, Peter Fisher, with Lady Bountiful; second, Patten & Co., with the same variety. Best vase 50 blooms light pink, first, Peter Fisher, with Enchantress; second, S. J. Reuter, with same sort. Best vase 50 blooms dark pink, first, Peter Fisher, with Nelson Fisher; second, S. J. Reuter, with Mrs. Thomas W. Lawson. Best vase 50 blooms scarlet, first, Peter Fisher, with Flamingo. Best vase 50 blooms crimson, first, Peter Fisher with seedling No. 113; second, S. J. Reuter, with Harlowarden. Best vase 50 blooms variegated, first, Patten & Co., with Mrs. M. A. Patten; second, Peter Fisher, with the same variety. Best vase 50 blooms yellow, first Patten & Co., with Dorothy Whitney. For best vase of not less than 100 blooms and not less than six varieties the prize was awarded to Wm. Nicholson.

The special prizes and awards offered by the Boston Co-operative Flower Market were as follows: Carnations: Best 50 blooms Fair Maid, first, H. A. Stevens Co.; second, A. Roper. Best 50 blooms of any white, first, C. E. Dickerman with White Lawson; second, L. E. Small, with seedling No. 3. Violets: Best 100 blooms Princess of Wales, first, Harry F. Woods; second, Wm. Sim. Best 100 blooms Lady Hume Campbell, first, Harry F. Woods; second, L. E. Small. Roses, best 25 blooms, first, Waban Rose Conservatories, with Wellesley. Mignonette: Best 25 spikes, first, Wm. Nicholson; second, A. H. Fewkes. Sweet Peas: Best 100 spikes, first, Wm. Sim; second, Malcolm Orr. The special prize offered by "Horticulture" for vase of 100 blooms of carnations was awarded to Patten & Co.

For the society prizes for violets the following awards were made: Best 100 blooms double, first, Malcolm Orr; second, L. E. Small; third, A. F. Coolidge. Best 100 blooms single, first, Wm. Sim; second, James Wheeler; third, M. B. Dallachie.

JOHN W. DUNCAN.

Tales of a Traveler.

The San Francisco Florists.

J. H. SIEVERS & COMPANY.—The most modern place which it has been my good fortune to see is to be found on Chestnut street, San Francisco, and is the property of J. H. Sievers & Company. The glass which makes up this place is only about 50,000 feet, divided into some fifteen houses, and a great variety of stock is grown.

Carnations have been and are still the major crop with this firm, and some 20,000 plants are cultivated. It will be remembered that both Ethel Crocker and California Gold were produced here, and both varieties were grown in the East with marked success by some growers. The first house, which N. Peterson, foreman of this leading California firm, showed me, was one of the carnation, Hanna-Hobart. This variety is of the same parent stock as Ethel Crocker and is very similar in color, but with a larger bloom and better stem. The flower is built up more in the center, and is, when perfect, very hard to better; but, owing to the size of the flower and the number of petals, there is a tendency to burst. This drawback is not so strong as to render the variety unprofitable, but with the colder weather of the East, this tendency would be stronger and the variety a doubtful one under eastern conditions. The variety looks well here, however, and although when I saw it flowers were a bit shy, it shows that it has and will produce blooms in paying quantities.

A house of Mrs. Thomas W. Lawson was the next attraction, and the interest centered in a batch of a sport which is almost identical in color with Enchantress and which, like all the other Lawson sports, has the characteristics of the parent. I do not know what carnation our good friend, F. R. Pierson, has been purchasing, but the San Francisco Chronicle on January 13 gives W. B. Arnold of Rockland, Mass., the honor of selling a Lawson sport to this well-known firm for \$20,000. If it is a shell pink, I merely wish to say that there are other sports on the pike to-day. Enchantress, Mrs. Patten and Prosperity filled the next house and were looking well. A house made up of Hanna-Hobart and a scarlet sport were next in order and a scarlet variety called A. B. Spreckles, one of the firm's originations, filled the following house.

One of the odd colored varieties is named John Carbone, and a house of this sort is grown, the demand being heavy here for odd colors. It is a bronze flower with pink for variegation; somewhat on the style of Admiral Cervera, which Long Island is needed to produce as it should be grown.

The only house of roses grown here is one of Ulrich Brunner, which are being grown in pots, and just at present are being forced for late winter and spring bloom.

Sievers & Boland is the name above the door on Post street, and here is perhaps the finest flower store in California. Mr. Boland is a partner of Mr. Sievers, but in order to avoid confusion the two places are operated under these distinct names. This firm caters to the best trade of San Francisco, and the quality of the blooms in their store and windows compares very favorably with that seen in the stores in the eastern cities. It was in this store that I saw the white violet used as a commercial flower, and while I could not consider it an improvement on the blue, it was certainly odd.

W. R. PIERSON.

(To be continued.)



A BOSTON DINNER TABLE DECORATION, NEW ROSE WELLESLEY THE PROMINENT FEATURE

American Beauty to hold them back. George Cook had a large dinner decoration on at Senator Depew's. The table was decorated with carnation Prosperity, and the corsage bouquets were of the same flowers. Henry Pfister has had a good deal of funeral work, the greater part of it being for the funeral of Admiral Crosby. J. L. Loose has been doing a good business this week; he has a fine bulbous display in his store. He is bringing in some nice roses and carnations from his greenhouses in Alexandria. Z. D. Blackstone has a window display of bark with Florida moss hanging from the ceiling, which is drawing the crowds. F. H. Kramer is handling Primula obconica in 3-inch pots, which are selling fast. Chris Shelborne is cutting some fine Bride and Bridesmaid roses.

M. C.

A Fine Table Decoration.

The accompanying illustration shows a well-arranged table decoration at a recent dinner at the Parker House, Boston, given by a committee of the members of the Ancient and Honorable Artillery Company to a few of their friends, members of the famous Ancient and Honorable Artillery Company of London. The Wellesley rose was used exclusively, and this is the first table decoration at which this fine new rose has taken the most prominent part. Altogether, one thousand blooms were used, the vase in the center of the table being filled with fifty of the most superb obtainable. The whole arrangement was the work of Henry M. Collins, and shows the artistic taste of this young man, who has charge of all

quoted that it cannot hold pace with the up-to-date methods of twentieth century horticulture. To return to the carnations. The most noticeable variety in the hall was Victory, from Guttman & Weber, New York, which received the coveted silver medal. First-class certificates of merit were awarded to S. J. Goddard for seedling carnation Helen Goddard; to Wm. J. Palmer, Buffalo, for carnation Red Lawson; to F. R. Pierson Co., for seedling carnation Winsor; and to R. Witterstaetter, Sedamsville, O., for seedling carnations Afterglow and the Aristocrat. These last two varieties arrived about 3:30 from Cincinnati, but showed up well after their long journey. Honorable mention was awarded to E. N. Peirce & Son for seedling scarlet carnation and to Patten & Co. for seedling carnation Mikado.

In the society prizes for the best vase of 25 white Peter Fisher was first with a magnificent lot of Lady Bountiful; Patten & Co., second, with Belle, and H. A. Stevens Co., third, with Governor Wolcott. For the best vase 25 blooms scarlet, Backer & Co. were first with Flamingo, and C. E. Dickerman second with the same variety. For the best vase 25 blooms light pink, Patten & Co. took first with Enchantress, which is yet far ahead of anything of its color. S. J. Goddard was second, and H. A. Stevens Co., third, with Enchantress. For the best 25 blooms dark pink, Wm. Nicholson was first with Mrs. Thos. W. Lawson; L. E. Small, second, with the same variety, and Patten & Co., third, with Nelson Fisher. For the best vase of 25 blooms crimson, Harry Penn was the only variety exhibited; Wm. Nicholson was first; Patten & Co., second, and Backer & Co., third. For the best vase of 25 blooms variegated Mrs. M. A. Patten was the only variety shown; Wm. Nicholson

Burbank's Fadeless Flower.

When I heard that there was a new flower that was sure to hold its color, not to wilt or decay, the picture came before me of a flower on the poinsettia style. I pictured to myself, looking at the humorous side of it, say, a million homes in New England which would have, instead of the case of wax bloom, a million of "Burbank's fadeless," and these would be kept to show on special occasions. There would be no more object in producing flowers, for, with the everlasting flower in each home, there would be no desire to grow others; the people would all be supplied in a short time and the flower market killed. Rather a dismal outlook for the grower, but a bright one for those who are lovers of flowers, for, like the traditions of our old New England families, would be the family flower, and on special occasions it would be brought forth to embellish the old New England parlor and the wax flowers in their case would sink into insignificance beside the beauty of the flower which never fades.

Fact and fiction sometimes go together, and so in this case. I have told you my impression of the flower which was based on sensational newspaper articles which were written without consent of Mr. Burbank, and by those who knew as much of flowers and their uses as a cow does of gunpowder and snipe shooting.

On January 26 I had the pleasure of a very interesting visit to the Burbank home at Santa Rosa, Cal., and from him personally I learned the truth concerning this interesting flower, and I am, with his consent, writing the facts as they really are in regard to it.

Cephalipterum Drummondii is the name of the plant and so far as I know there is no common name. This rare plant was discovered in 1902 in Northwestern Australia, and seeds of it were sent to Mr. Burbank from there. It has been grown by him and improved on, and is now producing flowers three times the size of the blooms produced by the original type. Thus we see that it was not an origination of Mr. Burbank's, and it is therefore a production of nature, and nature alone is responsible for the species. The seed which Mr. Burbank first received produced flowers about one-half inch in diameter, light pink in color and borne in clusters on a stem some eight inches in length. The foliage of the plant is a light green, judging from the flower which Mr. Burbank presented me, and not heavy in texture. There are ten blooms and buds on this spike, and the flower has eleven petals in every instance. This specimen has now been picked over a year and a half, and, according to Mr. Burbank, it has its natural color to-day, and the form of the flower is the same to-day as when picked a year and a half ago. The bloom is not easily broken judging from its present condition and the treatment it has received since it came into my possession.

By nature the plant is a half hardy annual and it will do best in a dry climate and with a dry soil. Environment has had a great deal to do with producing such a plant, but it seems to do well under conditions of greater moisture.

What the value of such a plant will be is a question which can only be answered when the plant has been grown more generally. Judging from what I have



CEPHALIPTERUM DRUMMONDI (BURBANK) SINGLE PLANT, IMPROVED TYPE, 1904

seen of it, the chief value would lie in its being used as a border plant, or for use in bedding. The enormous quantity of blooms, and the fact that they retain color and form would make it such, if combined with rapidity of growth and strong qualities of germination of the seed.

Some seed of the original type of *cephalipterum* has been disseminated, but no seed of the improved type will be allowed to leave Mr. Burbank's place until 1907 or later, and not then unless he is satisfied that it is of value and has completed his work of improvement.

The photographs here presented show the plant as it was, and a single specimen of the improved variety which Mr. Burbank is now working on.

San Francisco papers have published sensational reports of this plant and give a great deal of space to it from the standpoint of the milliner, representing that it will outclass the artificial flowers for millinery purposes, but how much of this is substantial remains to be proven. As I have said before, as a use-

ful bedding plant and as a floricultural novelty it has a place and is deserving of interest and study.

I forwarded Mr. Burbank for his approval and correction the above article, and I take the liberty of quoting from his letter in reference to it: "Your description of the Burbank's fadeless flower is exceedingly valuable and correct, and I thank you heartily for this authorized description." In regard to the value of the *cephalipterum* in millinery work he says in this letter: "As to the millinery part of the business, the largest millinery establishment in the world has, after examining the flower with great care, desired me to hold it for him without regard to price. This being an old and established firm, fixes forever its value for millinery uses, so you may rest assured on that matter, for it is fixed for all time by this decision coming in this way from the most extensive dealers in existence." One thing which can be depended on is the honesty of Mr. Burbank, and this quotation from his letter will show the value of this most interesting novelty. W. R. PIERSON.

The Causes of Doubling in Flowers.

The botanists find the doubling of flowers a somewhat hard nut to crack. There are several forms of doubling, one of the most common being found in the multiplication of petals. But when the inducing causes of doubling are considered, there is ample opportunity for speculation. In a general manner, the causes assigned by physiologists, or the plans proposed by cultivators, are reducible to three heads—namely, plethora, starvation and sterility. As Dr. Masters stated many years ago, these three seem inconsistent one with the other, but are not so much so as they appear at first sight to be. The advocates of the plethora theory have much in their favor; for instance, the greater frequency of double flowers among cultivated plants than among wild ones. Dr. Seemann brought out the facts of the great preponderance of double flowers in plants derived from the northern hemisphere, when contrasted with those from the southern. Cases have been known of debility or starvation having the effect of changing flowers to the double form; but then it has had a contrary effect also, as a case has been mentioned of a double-flowered thorn producing single blossoms from this cause. Mr. Darwin makes mention of a state of things which brings about sterility or imperfect formation of the flower, leading to a consequent increase of the petaline element, either in the form of an increased number of bracts, petals, etc., or in the substitution of petals for stamens and pistils.

It is said that the way in which double stocks are produced in Erfurt is by giving the plants a minimum supply of water. This much appears to be certain, that when once the disposition to form double flowers is established from any cause, that tendency becomes hereditary; there are races of stocks in which out of hundreds of plants, scarcely one double flowered form is met with; this is particularly the case with the Giant Brompton, and especially so in the case of the White Giant; on the other hand, where the tendency is set up, single flowers become the exception.—R. Dean in Horticultural Trade Journal, Eng.



CEPHALIPTERUM DRUMMONDI (UNIMPROVED)

AMONG THE GROWERS.

At New Castle, Ind.

The Benthay-Coatsworth Company's greenhouses, located at New Castle, Ind., are situated some distance from the center of the city, on a tract of land recently purchased by the firm, on which they built greenhouses comprising nearly 75,000 square feet of glass. These houses are devoted entirely to the cultivation of roses for cut flowers for the Chicago market, the concern having its own wholesale house there, where the entire product is disposed of. The varieties principally grown are Bride, Bridesmaid, Liberty and American Beauty, the last named not in such large quantities this year as heretofore, as it has been found that tea roses pay more per square foot of bench space than American Beauty, and this firm thinks of giving up the culture of the latter altogether and devoting the entire range to teas.

The stock at the present time presents a uniform healthy growth. Their cut from a week before Thanksgiving has been of an exceedingly high grade, and as satisfactory as they have ever been able to obtain from the place.

In the past year the establishment has been noted as the home of the Benthay aster, as here all the seed that is now being distributed all over the country was produced, under the direct supervision of Otto Benthay, who is in charge of the whole plant. He is a thorough, practical grower, of many years' experience in all kinds of greenhouse work. He has had entire charge of the growing end of the business ever since it was established, and his strict attention to details has had a great deal to do with the firm's success. The wholesaling of the cut has been in charge of F. F. Benthay, one of the oldest members of the craft in Chicago, the senior partner of the firm. L. Coatsworth, the other member, has taken care of the correspondence, and has given a considerable part of his time to needed improvements at the greenhouses, personally supervising the same. The houses are heated by low pressure steam, which has been found very economical.

SOUTH PARK FLORAL CO.—HELLER BROS.—

This firm is also located at this point, being but a few blocks distant from the foregoing concern. Their establishment is not given over wholly to the cultivation of roses, carnations being raised here extensively, and will be gone into more heavily the coming year. Their range of glass comprises nearly 200,000 square feet, some of which has been up for a number of years. The stock is all in fine condition, and a good cut is being taken from the place; it is shipped direct to retailers, in most cases, some also being sent to commission houses in different cities—St. Louis, Cincinnati, Pittsburg and Chicago.

Besides cut flowers, they do an extensive mail-order business, although no plants are sent by mail, they finding it gives better satisfaction to send all goods by express. In this way the plants arrive in better condition.

The growing end of the business is in charge of Herbert Heller, who gives his entire attention to it. A great many of the smaller florists in the neighborhood send in orders by telephone, when in need of stock on short notice, and in this way the firm is able to dispose of large quantities. They contemplate remodeling part of the range the coming Summer, using the latest improvements in construction; when completed, this will give them as fine a range of glass as can be found in this vicinity. Being in close proximity to the railroad, shipping facilities in all directions are very good.

A. ROVER.

A Modern Bulb Forcing Establishment.

Wm. H. Siebrecht, Astoria, Long Island, probably forces more bulbs for cut-flower purposes than any other grower in America. Some time ago we drew attention to the elaborate cold-storage system installed by Mr. Siebrecht on his premises; we propose at this time to say a few words about his methods of handling the bulbs and the varieties considered by him best suited for cut-flower purposes.

To give some idea of the immensity of the industry as carried on here, we may observe that over half a million Holland grown bulbs are forced each year, besides one and three-quarter million lily of the valley pips and countless thousands of Japan and Bermuda lilies. It is the tulips, narcissus and hyacinths chiefly that we are interested in at the present time, as this is the season of their popularity and the time when they should be bringing in the most profitable returns to the grower.

When the bulbs arrive in the Autumn, they are immediately planted in shallow boxes and stored away. For the better convenience of handling them in the Winter time, large store sheds have been erected with racks along the sides and through the center, and reaching clear up to the roof. On these racks or shelves, as they really are, the boxes of the newly planted bulbs are placed, and there they remain, without further handling, until they are put into the greenhouse and brought into flower. Such is the number of bulbs grown, however, that recourse has to be made to the older method of burying many boxes outdoors; and, although it is a much more disagreeable task to handle this outdoor stock, particularly in such weather as has been the rule so far this year, when brought in the stock is equally as fine and reliable as to bloom as are the more tenderly cared for bulbs

kept in the storage house, for it must be understood that bulbs kept in a storehouse must not be allowed to get too dry, or poor results will follow.

The greenhouses are at present filled with an almost innumerable supply of bulbous plants, with their varicolored flowers, and in all stages of growth. Some of them have just been brought in from the sheds; others are just about matured, with the flowers ready for cutting, and between these two extremes of growth thousands are seen in every stage of progress, as it is the rule to bring in a fresh batch every day so as to provide a regular daily supply of cut blossoms.

When the boxes are first brought into the greenhouse, they are placed underneath the benches, where the growth becomes "drawn" to a certain extent, and a reasonable length of stem is thus assured, and this applies to the narcissus and tulips particularly, that are to be brought into flower any time before the middle of February; for it must be borne in mind that either of these flowers, when brought in early, is of little value commercially unless they have good, long stems. After a few days under the benches, the boxes are placed in the full light, where they come to perfection in from 21 to 24 days from the date of their being brought in from the shed. The flowers are then cut, in the early morning preferably. Tulips must be cut while they are closed, or they do not last long. After cutting, the bulbs are thrown out and the space immediately occupied with an incoming crop.

Mr. Siebrecht does not advocate the forcing of the Dutch hyacinths earlier than the beginning of February, for if any attempt at forcing is made before that time, the spikes are apt to be short and stumpy, and they present anything but an attractive flowering plant, unless they are of a reasonable height and possessed of nice foliage.

Roman hyacinths and Paper White narcissus are brought into flower continuously through the season, commencing with the first batch about the beginning of November. Many of the first named, owing to a scarcity of the larger sized bulbs last Summer, have had to be produced from small sized stock, and the percentage of first-class flowers from this grade of bulbs has not been large enough to make them very profitable at the prices which have prevailed throughout the season.

It is surprising with what precision bulbs can be brought in and made to yield up their blossoms at stated times, and it is only under the care and supervision of a past master like Mr. Siebrecht, who knows every variety and its peculiarities, that such uniformly good results can be obtained.

While Mr. Siebrecht tries all the new kinds that are introduced, he does not believe in growing too many varieties. Of tulips the following are his chief reliable sorts that are grown in quantity: Salvator Rosa, pink; Rosa Mundi, pink; La Reine, white and pink; Keiserskroon, red and yellow; Montrosier, yellow; Yellow Prince, Vermilion Brilliant, red; Rose Grisdelin, pink; Morello, pink; Cottage Maid, pink; Colour of Cardinal, red, and Coroune d'Or, orange. The Dutch hyacinths most suitable for forcing purposes are: L'Innocent, white; Gertrude, pink, and Grand Maître, blue.

We may also mention that a great deal of space is devoted to lilies, and many types are to be seen in various stages of development, as the crop is made a continuous one. Of the several kinds of Japanese stock the multiflorum is considered the best. The foliage is narrower than that of the others; the bulb responds quicker to our mode of culture, and it takes a shorter time to bring it into flower; in fact, Mr. Siebrecht has become convinced that this variety can be flowered in as short a period as can Lillium Harrisii. The black-stemmed L. giganteum is also considered a very good one, next in order to L. multiflorum, these two being without a doubt the best two varieties of the Japanese longiflorums.

A son of Mr. Siebrecht, who has spent several years at a Boston technical college, is building a 40-horsepower motor car on the premises, and it is expected to have this car in service within the next few weeks. It will be used for conveying plants and flowers to New York every morning and for hauling freight. The car will be invaluable. An automobile, built by the young man last Summer, has been the means of Mr. Siebrecht and his family having many enjoyable tours over Long Island—all of which goes to make the lot of this prosperous florist a most happy one.

H. J. Jones, Rycroft Nursery, England.

The accompanying illustration is that of a section of Rycroft Nursery, Lewisham, S. E., London, England. H. J. Jones, probably the most noted and successful chrysanthemum grower in England, if not in Europe, is the sole proprietor, and his writings on the subject, as well as his work in originating and disseminating new varieties, place him easily at the very top round of his profession. It was the privilege of the writer to visit this place, admire the admirable chrysanthemums and tuberous rooted begonias, of which the illustration affords but a glimpse, so to speak, of the whole. Mr. Jones enjoys the reputation of the kindest feeling to the contemporary chrysanthemum lover of America, and evinces the fact by showering all manner of courtesies and hospitality on his American guest, producing evidences of his successes at the London and other flower shows by exhibiting gold and silver medals won by him, which, if melted into coin, would reach nearly \$4,000 value.

It is doubtful if any other grower in the old world has captured quite so many honors in prizes, and Mr. Jones continues to show his combativeness in floral warfare by a good-natured fight with his fellow

florists all over Europe, with no other artillery than his massive vases of the most perfect cut blooms.

It is interesting to listen to his discussion of American and English comparisons in chrysanthemums. To sum it all up, it would appear that he believes chiefly in English varieties for England and American varieties for America—however, not without occasional exceptions. He says "some of the varieties you people over there praise so highly as your best often turn out to be very ordinary over here; while some of the varieties you do not claim so much for turn out to be much better with us. We have not made a success of it, as a whole, by taking American varieties, expecting better, or an improvement on what we have already. But we have some Australian and French varieties which we can adopt to better advantage." He claims that acclimating may have something to do with adopting foreign sorts, but gives special praise to Western King as an American variety that has gone over to England and stood the test well, as one of the very best and most popular.

It is the opinion of the writer that the American has nothing to learn from his English cousin in the art of chrysanthemum culture, the Englishman appearing a little too much of a theorist proportionate to his practice. The system, modified by a few changes on account of personal views or preferences, is about the same in each country, and these differences appear to be occasioned more by the difference in climatic conditions than any new practices. As will be seen in the illustration, our friends on the other side, adhering more closely than Americans to time-worn customs, appear almost incapacitated for work unless sleeves are rolled up to the elbow, and white shirts invariably the rule.

In tuberous begonias the English florist is most happy, as well as in his fondness for pelargoniums and rhododendrons, which there reach the greatest perfection. Any American going to London should not fail to share the hospitality of Mr. Jones, always most handsomely extended, and to see the many interesting features about Rycroft that he has to show.

Houston, Texas. S. J. MITCHELL.

Sowing Herbaceous Perennial Seeds.

Where there is greenhouse accommodation hardy perennial seeds may be sown at any time now. A light, airy house, where a temperature of from 55 to 60 degrees can be maintained at night, will be found best suited to the purpose.

As mentioned in a previous article the boxes used should not exceed three inches in depth, and should be well drained. I have found that it is immaterial what kind of compost is employed, providing it is of an open, porous nature. If the soil is at all stiff or clayey, it should be well mixed with sand and well rotted manure, rubbed through a sieve. Of course, it is essential to have the soil very fine and in a fairly dry condition; if it is at all wet and sticky, it will become very hard when it gets dry, and the seedlings will be correspondingly poor and difficult to handle.

One of the greatest dangers to be avoided in sowing fine seed is covering them too deep. It is better not to cover at all than run the risk of covering too much. Something in the shape of a flour sifter will be found extremely useful where any quantity of seed is to be sown. A safe rule to go by is to cover the finer seeds about their own depth.

Seeds vary considerably in the time it takes them to germinate. New seed will come up much more promptly than old seed of the same kind. The following list will give an idea of the varying periods required for the different kinds to germinate, sown under favorable conditions in early January, the approximate number of days being given in each instance: Anthemis campaniana, 2; A. Kelwayi, 4; Alyssum saxatile compactum, 9; Aquilegia colerulea, 20; A. flabellata nana alba, 20; A. vulgaris fl. pl., 20; Armeria plantaginea, 9; Asclepias tuberosa, 11; Bellis perennis, 3; Campanula carpatica, 12; C. carpatica alba, 12; C. grandis, 9; C. media, 12; C. persicifolia, 14; C. persicifolia Moorheimi, 9; Centaurea montana, 9; Centaurea dealbata, 9; Chelone barbata, 12; Delphinium formosum, 9; Delphinium chinense, 11; Digitalis grandiflora, 14; Digitalis purpurea, 12; Gaillardia grandiflora, 8; Gypsophila paniculata, 6; Gnaphalium leontopodium, 12; Heuchera brizoides, 20; Heliosis Pitcheriana, 9; Lychnis flos-cuculi, 9; Papaver orientale, 9; Platycodon Mariessii, 14; Scabiosa caucasica, 13; Lychnis viscaria splendens, 8; Iberis sempervirens, 8; Lupinus polyphyllus, 8; Statice latifolia, 20.

After the seed germinates there follows a period varying from two to three weeks before the seedlings are ready to handle; as a general rule, it will be found that the sooner this can be done the better.

It is customary to wait until the character leaf is developed; but this is not at all necessary. If the seedlings show a tendency to damp off, pricking off will very likely save them, even though they are only in a cotyledonous state. After the seedlings have been pricked off, their growth is usually very rapid, and they will soon be ready to put into two and three-inch pots, preparatory to going outside.

ERNEST HEMMING.

A Correction.

J. M. Hammer & Sons, Washington, D. C., write to say that the item appearing in our issue of February 11 last, to the effect that their greenhouses had been frozen up is incorrect. We congratulate Messrs. Hammer on that fact, and gladly make the necessary correction.

CARNATIONS.

Stem Rot.

(Read by Wm. Weber, Oakland, Md., before the New York Florists' Club, Monday evening, February 13, 1905.)

In attempting to discuss the subject of cutting bench fungus or stem rot, it is not my intention or wish to lock horns with any of our brethren who are studying these subjects from a scientific standpoint. We need the aid of the experiment stations and scientific men; we have been benefited much as a result of their labors and we still look forward to aid in disposing of the various vexing problems which are constantly besetting us, but I believe that our friends, the professors, being only human, are apt to err, just as we ordinary growers are apt to do.

Professor Hasselbring, in his paper read recently in Chicago, stated that fungi in every instance are the

night, and a wilting ensues. This process is equivalent to exercise in the animal family; but we don't expect infants to take strong nourishment and vigorous exercise, and we must act accordingly with our cuttings. When we give heat and light in sufficient quantities to cause this wilting process, evaporation takes place out of all proportion to the cutting's vitality and ability to withstand the drain. One good experience like this will start the ball rolling. Cuttings here and there, or whole batches, have a shriveled appearance, and refuse to thoroughly freshen up; it will not be long then before an examination will disclose the presence of fungus around the stems, which will kill the cuttings quickly, or slowly, according to the temperature maintained.

We advocate the north-side propagating house because of its easier management. The direct rays of the sun are kept out during the most of the propagating season, but sufficient light is admitted for all purposes. The only time we experience difficulty at all is when the high south partition, or wall, no longer excludes the sun's rays, when greater vigilance is necessary. However, even then the sun's rays strike the glass at a very extreme angle, and we do not suffer in proportion as we used to before we adopted the north side.

or pot up. This drying process we find necessary to counteract the absence of sunlight.

I do not wish to infer that good results are not obtainable in a propagating house admitting the direct rays of the sun, but the point I would make is that the chances for unfavorable conditions to arise are much greater as compared with the north side house.

Any check sustained by the plants after being removed from the cutting bench, such as getting extremely dry in flats or pots, will result in producing that hard, woody condition in the base of the plant, and every grower knows how plants so treated will at best die a lingering death. Many plants, more or less affected in this way, find their way into the field, which is responsible for much of the stem rot found there. Deep planting and imperfect drainage are also large contributors to stem rot.

A couple of years ago, we began our field planting, as is our custom, about May 15. The soil was quite dry, but there were indications of rain; the rain did not come, and on the third day we were obliged to water the plants by hand. The bright sun and a strong wind, however, had already sapped all of the moisture the plants could muster; consequently, quite a few never revived, some only partially revived, and others



PARTIAL VIEW OF RYECROFT NURSERIES OF H. J JONES, LEWISHAM, LONDON, S.E., ENGLAND

Tuberous Begonias and Chrysanthemums. (See page 208).

prime causes of disease; not the condition. Now, I before the American Carnation Society in session at doubt if any successful grower, who has given the subject any serious consideration, will corroborate Professor Hasselbring's statement. If he had told us that typhoid, smallpox, etc., were first causes and not the result of conditions, he would be arguing along the same lines; but let us see how his theory stands when compared with what I believe are the actual facts in the case.

We will start at the cutting bench, say with a full bench of sound, healthy cuttings, recently placed in new sand. I maintain that during the rooting process cuttings not only do not require direct sunlight, but even strong light, such as will penetrate ordinary newspaper with the sun shining directly upon it, is far from beneficial. You will see at a glance, then, that I am an ardent adherent of the north-side propagating house for carnations.

But to illustrate why fungus appears, let us imagine our bench of cuttings is in a house admitting the sun's rays at all hours, but especially during mid-day. During cloudy weather it is not difficult to maintain an even temperature of about 50 to 60 degrees, but during bright weather it is not so easy. Of course, the glass may be shaded, but much heat will generate just the same, and it is quite easy for the temperature to go above the danger point, which is 60 to 65 degrees, depending somewhat upon the conditions.

Under the influence of strong light and added heat, plants throw off the moisture collected during the

We have found it unnecessary to have clear, sharp sand; in fact, we consider that a distinct drawback. The inability to secure sharp sand in our section soon taught us this lesson. We all know that for the first few weeks the cutting is obliged to subsist upon its own vitality, and while the process of rooting is going on a gradual hardening of the stem takes place, and if cuttings are allowed to remain in sharp sand long after they become rooted, we say they are woody. This is a frequent cause for stem rot developing in the plants later on, and, usually, produces the slow process of rotting unless conditions very favorable to the growth of fungi exist, when wholesale dying will result. This does not occur with cuttings rooted in sand containing some loam, decayed leaves, twigs, etc., such as we find along the banks of any small stream which overflows at various times of the year, depositing the sand, leaves, twigs, etc., mixed with some of the fat of the land, a very fine loam.

The nourishment contained in sand of this kind, while very mild, is very nourishing to young cuttings just putting out their first tiny rootlets, and from this moment on they begin to stop hardening at the stem, and grow, instead of getting woody and laying the foundation for various stages of stem rot to crop out later on.

With our system of propagation, it takes about six weeks during Midwinter to thoroughly root a batch of cuttings, and during this time they are watered about six times, four times during the first two weeks; after they are calloused they are kept increasingly drier until they are quite dry when ready to plant in soil

kept dying from time to time throughout the Summer, and even after they were housed. Perhaps a week later we had plenty of rain, but those planted in the dry ground without being watered until the third day, kept on dying just the same, while those planted after the rain, and those watered as they were planted, did not suffer.

Just a word concerning the theory advanced by Professor Hasselbring that the fungus enters the plants through the roots. I have never yet been led to believe this could be the case, and, instead, I have invariably noticed that the fungus operates upon the surface of the sand, or soil, and any dead roots are the result of curtailed breathing of the plant through a loss of foliage. The same thing happens if we use the pruning shears too freely upon our roses or other growing plants. A portion of the roots die through a lack of something to do.

We have all noticed young plants, and even old plants, carried off by quick rot just at the surface of the soil, and some time later see numerous small new growths coming out of the old stem, indicating that the old root is still alive, and doing away with the idea that the disease enters the plant by way of the roots. The slow form of stem rot would, indeed, give this impression, but knowing the facts as already stated, I believe this view to be erroneous. Cutting bench fungus and stem rot will cease when the conditions favoring its growth cease, and not before.

It is true that some varieties are carried off much quicker than others, but this does not indicate that we may hope for varieties which will remain immune

under conditions favorable to the growth of fungi, but rather that those varieties of a rather soft or fleshy nature, such as Daybreak, Uncle John, Flora Hill, Enchantress and others similarly constituted, need special care. As a rule, such varieties must be kept a little dryer than others of a more firm and solid growth.

While there is no hope of ridding a plant of the disease when once attacked, I know that in the case of valuable plants, such as first year seedlings, cuttings may be taken with entire safety, providing the disease has not progressed too far. We can cite many illustrations of this kind. We have also noticed that plants partially affected with stem rot have lived for months, and, in the meantime, produced a partial crop of good blooms. We do not attribute this entirely to the resistant power of the plant to the disease, but rather to the absence of favorable conditions for the growth of the fungus.

I am willing to go on record as differing with Professor Hasselbring that the fungi are the prime causes of disease. In my humble opinion, they are the effect; and conditions unfavorable to plant life and favorable to the rapid growth of the fungi are the immediate causes. In other words, the fungi bear the same relation to vegetable matter that the green bottle fly and its larvæ do to carrion—nature's method of disposing of dead matter where sufficient moisture and heat exist to make the growth of these organisms possible.

CHRYSANTHEMUMS

The New Chrysanthemums for 1905.

(Read by C. H. Totty, Madison, N. J., before the Morris County Gardeners and Florists' Society, February 8, 1905).

I do not propose this evening to go into cultural details in general, since you have heard me on this subject several times already, but I will describe such of the new varieties as I am personally acquainted with, their possible place in the exhibition stands, and their colors and periods of flowering.

The variety that is being most inquired about is Mrs. W. Duckham, which is, of course, natural enough, since it was shown in splendid shape at Boston, where it won the C. S. A. silver cup for the best ten flowers of any variety. I was sceptical when the raiser stated that it would beat Chelton, but events last Fall proved that he was right. While greatly resembling Chelton in shape, it is deeper in color and some two weeks later, being at its best November 1. The habit of Mrs. W. Duckham is ideal, with short jointed growth and fine stem, and in height it will not run over 4 feet. As a 6-inch pot plant, this variety did exceedingly well, and cuttings rooted in May and early June for this purpose made splendid little plants.

As a cut flower Mrs. W. Duckham is one of the best keepers either on or off the plant. As an instance of this I may say that the flowers of this variety sent from England to Boston traveled perfectly and kept in excellent condition throughout the show, yet they had been cut for fifteen days.

The only other yellow that I have seen or handled of the new ones is Merstham Yellow, and as this is so early, it is no use for the exhibitor; but the commercial grower has marked it for his own, and the supply is entirely inadequate for the demand so far. Merstham Yellow was written about considerably last Fall and you are all doubtless more or less familiar with it, but I will remark in passing that if it lives up to its record next year it will be the most widely grown of the early yellow flowering varieties. Those of you who have use for many flowers just when the frost outside has nipped the dahlias and other stock, will find a good stand-by in Merstham Yellow.

The white section is well enriched this year by the addition of several sterling novelties, Emily Mileham, Mrs. D. V. West, Mrs. Swinburne and White Combes being kinds that I am personally acquainted with, and Mlle. Jeannie Nonin and Clementine Tousef, two French varieties, both certificated by the C. S. A. last Fall. White Combes you all saw growing with Mr. Herrington, where it originated, and I need say nothing in its favor, as it spoke for itself. Mrs. D. V. West is a grand and beautiful white. The petals twist and curl in a graceful ostrich plume fashion and remind one of a variety that we all went crazy over some seven years ago, namely, Frank Hardy, which has some time ago passed to the great beyond. Mrs. D. V. West is a taller grower than the average, and is at its best the first week in November. I would recommend April propagation, which should give a second crown bud well on in August, when it will be safe to take.

Emily Mileham is also a beautiful white, refined and neat, with a very dwarf habit and stiff stem. It will be a fine variety for side benches and also pot culture, and should enjoy a large measure of popularity. While it does not make a thick, solid flower like Merza, it has a daintiness all its own. Crown buds secured the last week in August produced better flowers than buds taken earlier. Mlle. Jeannie Nonin will most likely take the place of Timothy Eaton, as it gives a large flower without the coarseness of the latter, and is at its best the middle of November. I am very favorably impressed with this variety, for it was one of the best sorts to show before the New York committee this year. Clementine Tousef I consider purely a commercial variety; a poor white, but a big early flower and as such will find its place. Pinks are not nearly so largely represented as last

season, nor to my mind do they show any advance over last year's, for it will, in my opinion, be some time before Wm. Duckham and Leila Filkins are surpassed. Valerie Greenham is quite distinct, and very full, though the petal is quite narrow. I must confess to a weakness for a broad, massive petaled flower. Mrs. H. A. Allen is much broader in the petal, has a good color and will find its level in the exhibition varieties. It is a very dwarf grower with a grand stem and foliage, and well worth trying.

The two largest varieties of the year are Mrs. A. J. Miller and J. H. Doyle, and they are both truly enormous when caught right, on the crown bud. The first named gave a flower 7 by 7 inches in a 6-inch pot, with practically no feeding. The color of Miller is a terra cotta shading to brown, not so striking, but its immense size makes it of great value in a collection of varieties. It needs no staking really, for it is one of the strongest growers I ever saw. J. H. Doyle is also very dwarf and strong, and makes a splendid pot plant. The color of this variety is a warm terra cotta shading towards a Lawson pink color on later buds. Another year, with this variety widely distributed, we can tell better as to its future, but I believe it will become a standard among the exhibition kinds. A peculiarity of this variety is the fact that the foliage is pale when the plant is in the early stages of growth, but this disappears as the plant gathers strength, and does not by any means indicate a delicate constitution.

Dora Stevens is a lovely color, old rose perhaps expresses it best. This variety makes immense solid foliage, like cabbage leaves, and I would recommend pot culture to check its exuberance in this direction. Dora Stevens will grow with any one in any place. Varieties of this character should not be fed too highly with nitrogenous food, or the resulting growth is too soft and sappy.

Reds are represented in the novelties by Merstham Red, J. H. Silsbury and Henry Perkins, neither of which shows specially noteworthy characteristics. Merstham Red is closely approaching to red. What are commonly called reds are, of course, strictly speaking, crimson, the red chrysanthemum not having yet put in its appearance. Merstham Red is very dwarf, and though it will not compare in size with Maynell or Wright, it shows up for all that it is worth with a broad reflexing petal. Silsbury and Perkins both show more or less bronze in their make-up when taken on the crown bud, and the late flowers, while wonderfully bright, do not have the necessary size for exhibition.

These constitute the best of the new varieties so far as I have seen them. I would include Brighthurst in the pinks, one of Elmer D. Smith's seedlings, and very well shown at our last Fall exhibition by Peter Duff. It escaped my mind when reviewing the pinks a moment ago. It has a good dwarf habit, and every flower comes good.

Some of the pessimists seem to think that we are not showing the progress in new types in the chrysanthemum that is shown in other flowers. They are greatly mistaken, since actual measurements show a large increase in size during the past ten years, and most assuredly the graceful Japanese section as seen to-day never presented such diversity of form and color even five years ago. But even if we were merely holding our own in regard to size and color, new varieties are all the time necessary, because the old ones will run out; even the peerless Wm. Duckham will have his day, and then pass out as the cycle moves along. A variety newly introduced, while full of the seedling vigor, may by very careful handling be held in good shape for some years, but eventually the inevitable decay comes and the plant passes out. The man, the tree, the flower, all have their periods of growth, manhood, old age and oblivion. The future holds much in store for the chrysanthemum, and the interest of the world in general in our Autumn Queen is increasing by leaps and bounds. Last year there were more exhibitions held than ever before, and many of them were financial successes for the first time in their existence. The chrysanthemum has come to stay, fellow craftsmen, and I for one propose to stay right with it.

The National Chrysanthemum Society of England has instituted a department of plant registration. Raisers, importers and distributors of new varieties, (whether members of the society or not) are requested to send to the Registrar appointed by the society, on or before the 31st of December, in every year, a list of all new varieties they intend to send out in the ensuing year. Such list to contain name and description of variety, name of raiser and distributor, and section to which the new variety belongs, on forms that will be provided upon application to the Registrar. It is requested, if it be possible, to submit any such new varieties previously to the Floral Committee for classification. The information thus obtained will then be inserted in the Annual Report and Schedules of Prizes every year, and thus the society's official catalogue will practically be kept up to date. The Registrar at present is: Mr. C. Harman Payne, 141, Wellmeadow Road, Catford, S. E.

WASHINGTON, PA.—A meeting of the stockholders of the Washington Floral Company was held on Monday, January 30, at which directors were elected for 1905. The following compose the directorate: W. J. Warrick, A. J. Culbertson, Edward Culbertson, John Salmon, J. M. Dickson and William Christman. The directors effected the following organization: President, J. M. Dickson; treasurer, W. J. Warrick; secretary, Ella Culbertson.

CLUB AND SOCIETY DOINGS

THE HUNTINGTON (L. I.) HORTICULTURAL AND AGRICULTURAL SOCIETY will hold an exhibition of carnations, roses, violets, flowering and foliage plants in the Court Room, Huntington, Tuesday evening, February 21. Admission free. Diplomas, certificates and prize cards will be awarded as premiums.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.—President J. C. Vaughan has appointed the following gentlemen State vice-presidents, in addition to the list previously published: District of Columbia, Geo. H. Cooke, Washington; Kentucky, Fred Louis Schulz, Louisville; Pennsylvania, West, Fred Burki, Bellevue. WM. J. STEWART, Secretary.

THE PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.—At the regular monthly meeting of the Pittsburg and Allegheny Florists' and Gardeners' Club, held on the 7th inst., the following officers were elected to serve for the ensuing year: T. P. Langhans, president; E. C. Reine-man, vice-president; H. P. Joslin, secretary; E. C. Ludwig, assistant secretary; Fred Burki, treasurer; P. S. Randolph, John Bader and Fred Burki, executive committee. The meetings of the club are held on the first Tuesday of each month. Place of meeting, 422 Sixth avenue, Pittsburg, Pa. Secretary's address is Ben Avon, Allegheny, Pa.

THE MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY held its ninth annual ball February 10 at Red Men's Hall, Oceanic, N. J. Over a hundred couples were in the grand march. The hall was beautifully decorated, and the music, by Wyman's Orchestra, was splendid. The stage was very tastefully decorated with cut flowers and decorative plants by Mr. Turner. Corsage bouquets of white roses and lily of the valley were furnished by the society for the ladies, and carnation buttonholes for the gentlemen. An elaborate dinner was served at 12 o'clock. The entertainment committee deserves great credit, as the success of the ball depended mostly on its efforts. I have just heard that most of the dancers reached home before sunrise.

There was a short business meeting before the ball, when William Ritchie and Frank Jenkins were elected active members. B.

THE DUTCHESS COUNTY (N. Y.) HORTICULTURAL SOCIETY held its annual dinner in the Nelson House, Poughkeepsie, N. Y., on Thursday evening, February 9. The tables were beautifully decorated. After the cigars were lighted Mr. E. Lyman Brown, president of the society, made a speech in which he reviewed the affairs of the organization and made an earnest plea for at least 100 new members. President Brown was heartily applauded as he told of the good and elevating purposes of the society. He referred to the fact that there was a deficit in consequence of the flower show, but the enthusiasm which he aroused foreshadowed a quick demolition of the deficit. Eloquent speeches were made by Hon. Martin W. Heermance, who talked on "Flowers and Their Friends;" the Rev. Patrick Daly; Lewis S. Chanler, who created much merriment by his reference to practicing law for bouquets; Patrick O'Mara, Frank B. Lown and others.

CINCINNATI FLORISTS' SOCIETY.—Saturday afternoon occurred the exhibition of roses given under the auspices of the Cincinnati Florists' Society, and, taken as a whole, it was the best rose show ever held at the club rooms. Peter Reinberg, Chicago, exhibited Uncle John for the S. A. F. medal, but the judge was not inclined to award it same. Theo. Bock acted as judge. The awards were as follows: American Beauty, George & Allan, second prize; Bridesmaid, best 25 blooms, W. K. Partridge, first; Albert Sunderbruch, second, and George & Allan, third. Bride, A. Sunderbruch, first; George & Allan, second; Peter Weiland, third. Meteor, 25 blooms, George & Allan, first; W. K. Partridge, second. Perle des Jardins, George & Allan, first. Golden Gate, Ivory and Liberty, W. K. Partridge first on all three. J. W. Rodgers received second for display of violet Princess of Wales. For best general display W. K. Partridge captured the prize.

The principal discussion of the evening was the advisability of holding a large chrysanthemum show next Fall, but nothing definite was done. Many were looking for the new rose, Richmond, but it did not materialize.

On March 11 will occur the carnation exhibition, and we want to see every new comer staged, especially Fiancee, Robert Craig, Lieut. Perry and My Maryland; good prizes are offered. If you have not received a schedule, write to our secretary, Geo. Murphy, Station F, Cincinnati, Ohio. We shall also be much pleased to see as many of the craft as possible at the show. Don't forget the date, March 11.

E. G. GILLET,.

THE MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY held its regular meeting on Wednesday, February 8, in Masonic Hall, Madison, N. J. The event of the evening was the reading of an essay on "The New Varieties of the Chrysanthemum," by C. H. Totty. They were treated from descriptive and commentary points of view, rather than cultural. The paper was much enjoyed by those present. It was supplemented by Mr. Herrington, with a comparison of European and Australian varieties grown in America, which was very interesting. Three new members were elected.

Our next meeting promises also to be interesting. E. W. Holt, of New York, has presented the club with a pair of gum boots to be bowled for. After a short business session we are to adjourn to the bowling alley, and prove our mettle. A committee composed of Messrs. Duckham, Totty and Herrington is to arrange the handicaps, so that every member will have a chance at the boots, and most of us need them just now. We hope to send you a few record-breaking scores. We have a month to get in form. E. R.

THE WASHINGTON (D. C.) FLORISTS' CLUB met last Tuesday evening, President Gude in the chair. After the usual business had been transacted, the District Smoke Law was discussed. This law, as it stands at present, is very arbitrary, and entirely prevents the use of soft coal, which adds considerably to the expense of heating. The bill about to be introduced to Congress by the commissioners for the purpose of allowing none but master builders to erect any buildings whatsoever was also discussed. Should this bill become a law, it would prevent anyone in the trade erecting their own greenhouses or making repairs without the services of a master builder, which would practically paralyze greenhouse building. It was agreed to wait upon the commissioners and try to have the smoke law modified and to prevent the master builders' bill from being presented to Congress.

Secretary Bisset exhibited a vase of his new rose, a cross between Liberty and Mme. Abel Chatenay. It has a fine stout stem, flowers as freely as Chatenay, and is of a fine, deep pink color. It was conceded that Mr. Bisset had succeeded in obtaining a fine rose, which no doubt will play a conspicuous part in future decorations. M. C.

THE ST. LOUIS FLOWER AND PLANT GROWERS' CLUB met on Thursday night, February 9, at Louisiana Hall and formed an organization under that name. This association admits only growers of plants and cut flowers, excluding wholesalers and store men, although most of the members admitted sell at retail. The membership is said to be limited to 75, from within a radius of 500 miles of St. Louis in Missouri and Illinois. The officers elected were: Dr. Alex. A. Halstedt, Belleville, Ill., president; James W. Dunford, Clayton, vice-president; E. H. Michel, secretary, and Gus. Egging, treasurer. The trade is still at a loss to know the objects of this new association, when the St. Louis Florists' Club, with 100 members, gives the growers all and more benefits than this new association can possibly give them. As was seen by the attendance, the largest growers in St. Louis were not present, and will not attend, they say. ST. PATRICK.

CHICAGO FLORISTS' CLUB.—There was a good attendance at the club meeting Thursday night, February 9. Four new members were elected, as follows: E. Korowski, N. J. Rupp, Paul Holbrook and Fred Lautenschlager. The committee in charge of the entertainment of the American Carnation Society read its report, which was adopted, and a vote of thanks extended the committee. Vaughan's Seed Store exhibited a vase of John E. Haines carnation, which scored 85 points. R. J.

ST. LOUIS FLORISTS' CLUB.—The February meeting of the club, Thursday afternoon, 9th inst., proved one of the best the club has ever held. It was also very instructive to carnation growers, who were out in full force; by the opening of the meeting fully 50 were present, and 70 before the close. The exhibit of carnations was one of the finest the club has ever held. Among the local growers who staged flowers were John Stiedel, J. F. Ammann, A. Jablonsky and Nick Himmer, and the stock they showed compared favorably with any of the outside exhibits. Exhibitors from a distance included the J. D. Thompson Carnation Co., of Joliet, Ill., with a grand vase of Robert Craig; Guttman & Weber, New York, sent Victory, which came in bad condition; H. Weber & Sons, of Oakland, Md., had their grand white, My Maryland; John E. Haines, Bethlehem, Pa., his new scarlet John E. Haines; Thomas Salvesson & Son, of Petersburg, Ill., showed Mrs. Thomas W. Lawson, Norway and Prosperity; E. G. Hill Co., of Richmond, Ind., sent Mrs. M. A. Patten, Lady Bountiful and Cardinal; The Chicago Carnation Co., Joliet, Ill., had the largest exhibit of blooms, which included Mrs. T. W. Lawson, Enchantress, Cardinal, Harlowarden, Lady Bountiful, White Lawson and Prosperity; W. J. Palmer & Son, Buffalo, sent 50 extra fine Red Lawson; unfortunately they came a day late for the exhibition.

Lady visitors at the show were Mrs. M. M. Ayers and Mrs. H. G. Berning. From out of town those who attended were: Mr. Canfield, of Springfield, Ill., James

Hartsborne and J. D. Thompson, of Joliet, Ill.; S. S. Skidelsky, of Philadelphia; and G. M. Kellogg, Pleasant Hill, Mo.

The meeting was called to order by President Juengel with all the officers present. All committees made full reports, except the building committee, who wished to be relieved, as they had not the time to attend to the work outlined properly, and asked the chair to appoint Fred C. Weber, C. A. Kuehn and Otto Koenig in their places, which was done. The committee on revising the constitution and by-laws read the report for the first time; this will require two more readings before adoption. Four members were dropped for non-payment of dues. J. J. Beneke, George Windler and F. J. Windt were appointed a press committee.

Frank J. Fillmore read a very interesting paper on the trip of the St. Louis delegates to and from Chicago, while attending the American Carnation Society's convention. The president called on each of the visitors for a few remarks, to which they responded. The president appointed as judges of exhibits: Messrs. Thompson, Hartsborne and Canfield, to pass on the local exhibits, and Messrs. Steidel, Ammann and Jablonsky for the outside exhibits. Awards for local exhibits were as follows:

Fifty White—John Stiedel, first, with Governor Wolcott; A. Jablonsky, second, with Lady Bountiful; J. F. Ammann, third, with White Cloud. Fifty pink—John Stiedel, first with Enchantress; J. F. Ammann, second, and A. Jablonsky, third, both with same variety. Fifty red—John Stiedel, first, with Adonis; A. Jablonsky, second with G. H. Crane and Flamingo. Fifty mixed varieties—John Stiedel, first; A. Jablonsky, second, and J. F. Ammann, third.

Judging on the outside exhibits resulted as follows: Fifty white—Chicago Carnation Company, first and second, with Lady Bountiful and White Lawson; E. G. Hill Co., third, with Lady Bountiful. Fifty pink—Chicago Carnation Company, first and second with Enchantress and Mrs. Thomas W. Lawson; Thomas Salvesson & Son, third, with Mrs. Thomas W. Lawson. Fifty red—Chicago Carnation Company, first, with Cardinal; J. D. Thompson Carnation Co., second, with Robert Craig; E. G. Hill Co., third, with Cardinal. Fifty any other color—Chicago Carnation Company, first and second, with Prosperity and Harlowarden; E. G. Hill Company, third, with Mrs. M. A. Patten. The varieties John E. Haines and Victory were too far gone to be judged, but apparently are good reds. My Maryland, a grand vase of blooms, scored 88 points, and was awarded the club's certificate of merit.

The next meeting on March 9 will be just as large and interesting. It will be our annual rose meeting; \$50 in prizes will be offered for both new and old varieties. Messrs. Koenig, Meinhardt and Beneke will have charge of the exhibition. ST. PATRICK.

NEW YORK FLORISTS' CLUB.—Ladies' night at the club on Monday evening, February 13, was again a grand success, as was also the carnation display. There was a large attendance of the fair sex, wives, daughters, sweethearts, cousins and aunts all being present, while the male representation was also satisfactory, many faces being seen that are generally missing from the other meetings throughout the season. President Traendly, still suffering from hoarseness, presided. The outing committee reported a visit of inspection to, and unanimous recommendation of, Glenwood, a Summer resort on Hempstead Bay. 2½ hours' sail from the city, with ample accommodations for games of all sorts, a dining room capable of seating 300, and the further inducement that the proprietors would donate twelve bottles of Rhine wine as bowling prizes. This was merely a report of progress, no final decision being made on the committee's recommendation.

Mr. Sheridan reported that the receipts from the recent annual dinner covered all expenses, a slight margin remaining. The committee was discharged with thanks.

Mr. O'Mara, chairman of the committee of awards, submitted new rules governing awards to exhibits made before the club. These rules will be considered seriatim at next meeting. In the matter of roses and carnations proposed additional scales, covering points relative to growth, condition, floriferousness, etc., were recommended, and other important changes suggested, the object being to make the club's awards as valuable as possible. The highest award for novelties will be a silver medal, followed, in order of merit, by certificate, highly commended, and honorable mention. In the case of worthy disseminated varieties, graded awards for culture will be bestowed.

Messrs. Frank McMahon, C. Albert Small, J. F. Marsden, Clarence Saltford and Wm. G. Miller were elected members. Nominations for membership were: Messrs. J. McHutchison, D. Wittmann, H. Suzuki, Wm. Weber, R. C. Pye, E. J. Wade and R. M. Schultz.

Action on the proposed amendment to the by-laws dealing with the secretary's duties was deferred till next meeting.

Wm. Weber, of Oakland, Md., then read his paper treating, principally, upon stem rot in carnations. Mr. Weber took exception to some of Professor Hasselbring's statements made at the recent convention of the American Carnation Society at Chicago. His paper will be found in full in another column.

In the ensuing discussion Mr. O'Mara directed attention to the mystery surrounding the origin of disease. It revived, he said, the question that had baffled scientists and philosophers as to whether the

hen or the egg came first. Good sanitation is the first principle of health, and this fact the essayist had well brought out in his very clean cut exposition of the essentials of good carnation growing.

F. R. Pierson was of the opinion that Professor Hasselbring had mixed up cause and effect as regards these diseases. The cause removed, the effect is prevented, and the close observer who can find out the cause of these troubles is the successful carnation grower. He cited cases demonstrating the susceptibility of some varieties to disease, while others in close proximity remained immune from its attacks; and also stated that the majority of the present day carnation diseases created less apprehension in the minds of growers than was the case a few years ago. He believed with Mr. Weber that anything that affects the condition of the plant, causing a hardening of the stem or other unnatural tendency, rendered the plant more liable to attack.

Speaking of his firm's new seedling white carnation, My Maryland, which was on exhibition, Mr. Weber said it was a cross of Norway and Mrs. Thomas W. Lawson, the former being the seed-bearing parent. In habit and character it is an invigorated Lawson, blooming earlier than that variety, and producing larger flowers on longer stems. The foliage is rather sparse, and he was inclined to think the energy of the plant centers largely in the production of flowers. With him, the variety was a freer bloomer than the Lawson.

Alex. J. Guttman told of Victory's good keeping qualities at the Chicago show. A vote of thanks was passed to Mr. Weber.

The entertainment part of the program was then proceeded with, J. B. Nugent, Jr., chairman of the house committee, acting as M. C. It consisted of songs by Messrs. Black, Nugent and Professor Ryan, highland dancing by Misses Annie and Jeannie Birnie and Jessie Cameron, a feature thoroughly and appreciatively enjoyed; violin solos by Miss Butters, and bagpipe music by William Cameron of New York.

Refreshments were served to the ladies and gentlemen, and everybody was well pleased with the evening's fun. There came from the question box an inquiry signed by Mr. O'Mara, asking which was the most valuable characteristic in a rose, a carnation, a chrysanthemum and a fern. The question, in its various parts, was assigned to Messrs. Harry O. May, John Birnie, William Duckham and John Scott, respectively, for response at next meeting.

After reading of the report of the committee of awards by Mr. O'Mara, adjournment was made at a late hour. The exhibits were numerous, and, with the exception of two or three, all were novelties not yet disseminated. Peter Bisset, Washington, D. C., showed a dozen flowers of a seedling rose, an offspring from Liberty and Mme. Abel Chatenay, and as yet unnamed. The flower is very full and double, of good size, somewhat like Chatenay in form, and of a pleasing, though indescribable shade of color somewhat after the coloring of Rosalind Orr English.

Young & Nugent exhibited a vase of fine gardenias, and with these two exceptions the tables were filled with carnations only.

H. Weber & Sons, Oakland, Md., made two nice exhibits, a white variegated variety, numbered 63, and a beautiful bunch of their new sort, My Maryland. Ferd. Boulon, Seaciff, N. Y., sent a few blooms of his pink Lawson, but they did not do the variety justice. John Reimels, Woodbaven, N. Y., showed pink seedling No. 31, almost the color of William Scott, but larger and better in every way; and Variegated Lawson, larger flowers than the parent and very prettily marked. F. R. Pierson Co., Tarrytown, N. Y., who are now devoting much greenhouse space to new carnations, made a comprehensive exhibit, included in which were Dabem, a large crimson that has become quite well and favorably known; Variegated Lawson; Mrs. M. A. Patten; Flamingo, the well known scarlet; White Lawson; Enchantress, and a brand new one named Winsor, a Mrs. T. W. Lawson seedling. We believe this is the first time Winsor has been seen in New York. It is a very soft shade of pink, a large and full flower borne on excellent stems, and looks like a winner. Palmer & Son, Buffalo, N. Y., sent on a bunch of their red Lawson, and J. L. Dillon, Bloomsburg, Pa., blooms of his new red variety, Crisis. C. W. Ward, Queens, N. Y., staged many very fine blooms, particularly in the vases of mixed seedlings, among which were both white and pink flowers that measured over four inches in diameter. One, a white and numbered 2621, was a perfectly formed bloom, clear in its color and with perfect calyx, no signs of bursting and an average size of over 4 inches. There were also a few flowers of a variety just as large and perfect in every way, of a pure pink color. These two kinds, with their three foot long stems and immense blooms, seem more like the forerunners of a new type of carnations than any of the members of the present day race and generation. Mr. Ward also showed two new crimson, The President, and No. 222, both large and excellent in every particular; Lieut. Peary, Robert Craig and a new white variegated variety. Guttman & Weber had a vase of Victory, which were in splendid shape. Mr. Guttman informed us that these blooms were to grace the dinner table at the Hungarian Club, where President Roosevelt would dine on Tuesday evening. John E. Haines, Bethlehem, Pa., was present with a splendid bunch of his red variety, John E. Haines, and, as it showed up there, this variety has no superior in color. The flower is also well formed. M. A. Patten, Tewksbury, Mass., sent a nice bunch of the crimson flaked novelty, Mikado. John N. May, Summit, N. J., exhibited a nice vase of Phyllis; Wm. Duckham a beautiful bunch of Enchantress, and Robert C. Pye, Nyack, N. Y., a fine vase of a light sport of Enchantress.

Review of the Market

NEW YORK.—The thermometer has been registering zero weather almost for a number of days, and business in cut flowers is extremely quiet.

Carnations are going quite slowly; they are very plentiful, particularly the variety Mrs. T. W. Lawson.

Tulips, narcissus, hyacinths and lily of the valley are all very plentiful, and there is no change in the values of these this week.

Lilies have become more plentiful and a drop in prices has resulted. Sweet peas and freesia are hard to dispose of; it is worthy of note that these two subjects were favorites a year ago and sold much better.

Cattleyas have been a little scarce, and stiffer prices are being asked. Lilac does not clear out so well as it might, and bargain prices rule occasionally.

BOSTON.—St. Valentine's Day was very cold, one of the coldest of the season; as is generally the case, however, it caused a brisk demand for many kinds of cut flowers.

NEWPORT, R. I.—We have had a much better market lately at both wholesale and retail. Carnations have improved both in quality and price.

BALTIMORE.—Business is satisfactory, so far as the demand is concerned, but the supply is somewhat different from a week ago, at which time there was too much stock, excepting good roses.

SAN FRANCISCO.—American Beauty and other red roses, though somewhat scarce, are in ample supply for all requirements.

ST. LOUIS. The market started out the past week as though stock of all kinds was to be scarce, but the latter part of the week flowers again piled up at all

the commission houses. The bad weather played havoc with the retail trade all over the city. It was 20 below zero Monday morning, and the weather man says there's no telling when the let-up may come.

The supply of carnations is increasing very considerably; the fancy grades are all selling fairly well, but first and common stock in particular are being held over in numbers each day.

Violets have sold very cheaply; the market has been over-supplied with both single and double. Extra fancy California realized 40c. per 100; \$3 in 1,000 lots; double as low as 50c. per 100.

While American Beauty roses in the special fancy grades are far from being plentiful, yet there are enough to supply all demands at from \$4 to \$5 per dozen. Other grades in this variety are also quite ample, at \$1.50 to \$2 per dozen; shorts are down to \$5 and \$6 per 100.

Bulbous stock is in abundance, almost being a drug. Freesia sells fairly well, but prices on this stock are much lower than at any time before this season.

INDIANAPOLIS.—With more favorable weather, St. Valentine's Day would have been an unusually heavy one. Despite the extreme temperature, 12 degrees below zero, business equaled, if not surpassed, that of last year.

Fancy carnations, such as Prosperity and Enchantress, wholesale at \$4 per 100; good grades, such as Mrs. Lawson, at \$3 per 100.

75c. to \$1 per 100. Potted plants have sold well during the past week; flat pots containing six to ten Dutch hyacinths or Jonquils are strong favorites.

CHICAGO.—With the severest weather in the record of the weather bureau for the past six years, and nearly a foot of snow on the ground, impeding traffic of all kinds, business has been at a very low ebb for some time.

American Beauty of the better grades are short in supply and prices have advanced somewhat, the flowers bringing from \$4 to \$6 per dozen; others from \$4 to \$4 per 100, according to grade.

The supply of carnations has increased somewhat, but the call has diminished. White are more plentiful. Prices are not as firm as they have been some time previous.

The supply of violets has also fallen off, still there are enough to meet all calls; but very few from the East are being received, local stock substituting to a considerable extent, and bringing from 50c. to \$1.25 per 100.

R. J.

KALAMAZOO, MICH.—Stormy and very cold weather for the past two weeks added nothing to the volume of business done, which for the past, or, rather, passing season, has hardly kept up to expectations.

CINCINNATI.—Business is good; stock is scarce. This tells the story in six words. Prices are as follows: American Beauty, \$6 per dozen; other grades in proportion.

WASHINGTON, D. C.—While the continued cold and cloudy weather has been

hard on the growers and has made the supply of stock somewhat limited, it has not interfered in the least with the social program; consequently, the florists have been kept busy. There has been a good demand for prime stock, at fairly good prices.

BOWLING.

Table with 3 columns: Name, Score 1, Score 2. Includes entries for NEW YORK on Monday, February 13, and NORTH HUDSON FLORISTS' BOWLING CLUB on Monday, February 13.

Table with 3 columns: Name, Score 1, Score 2. Includes entries for WASHINGTON, D. C.—The following are the recent scores made by the bowling team.

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BUSINESS DIFFICULTIES.

EAST ORANGE, N. J.—George Purdue, florist, has made an assignment for the benefit of his creditors. His place was located on Main street, and on this site his father, Richard Purdue, now retired, started the business in 1861.

Advertisement for 'The Fumigating Kind Tobacco Powder'. Includes a large handwritten-style title, the slogan 'All That Use It Say "There Is Only One"', a testimonial from Belvidere, Ill., and another from Tamskus, Pa. The ad is for The H. A. Stoothoff Company, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York.

CANADIAN NEWS

HAMILTON, ONT.—This week's Ontario Gazette announces the incorporation of the Webster Floral Company, Limited, of this city. The incorporators are Charles Masson Webster, Wilford Mortimer Clendening, Charles Robert McCullough and Robert A. Robertson, all of Hamilton, and Chas. Harris Stickle, of Toronto, and the capital is \$40,000, in 400 shares of \$100 each. The company is authorized to carry on a general nursery, florist and seed business and to deal in supplies incidental thereto, and to acquire the business of Webster Brothers. The provisional directors are Messrs. Chas. Webster, W. M. Clendening and C. R. McCullough.

LONDON, ONT.—There has been somewhat of a revival in trade during the past couple of weeks, but the continuance of the very cold weather limits everything to the smallest possible proportion. Flowers of all kinds are of excellent quality, and while the general quantity is not very large, there are sufficient for all demands. Flowering plants are plentiful, but move very slowly; wholesale shipping trade, by reason of the cold, is almost at a standstill. Easter stock is progressing favorably; by reason of the lateness of the festival this year, there should be no lack of material of all kinds. The weather conditions are unusually severe—20 below zero is a common occurrence, but, fortunately, we are favored with plenty of snow. Railway travel is paralyzed.

FRED. BENNETT.

TORONTO.—Business continues good with all flowers, but good roses are plentiful. Bulbous stock has been in such quantity that much of it has been sold at very low prices, and only the big growers who buy their bulbs at very close prices have been able to make any money on it. Carnations have also been very plentiful and only the best have made good prices. The weather has been very cold this month, so the demand for plants has been light. But the call for cut stock is likely to be lively, as several big social events are slated.

The annual carnation meeting will be held this week, and a fine show is expected.

The regular army of Dutchmen have visited nearly all in the trade this season, and with them have come four or five fresh ones; they are eager for orders, and if they don't get some it will not be from the want of trying.

THOS. MANTON.

FIRES.

TOPEKA, KAN.—The greenhouse owned by Jacob Blair a mile and a half west of town, was burned to the ground February 6. The origin of the fire is unknown. The loss is approximately \$1,500.

CARNATIONS

Per 1000	Per 10
Enchantress..... \$3.50	Queen Louise..... \$1.00
Lawson..... 2.00	Hill..... 1.00
Harlowarden..... 2.00	Joost..... 1.60
Roston Market..... 1.50	M. Glory..... 1.00
Wolcott..... 1.50	America..... 1.60

Stocky cuttings that will make fine bushy plants. They will please you. If not, return plants and money will be cheerfully refunded. Extra plants to fully pay express charges. Can furnish other varieties at low prices.

A. A. GANNETT, CENEVA, N. Y.
Mention the Florists' Exchange when writing.

Variegated LAWSON

Sport of Mrs. Thos. W. Lawson. The flower is of the Mrs. M. A. Patten type and can barely be distinguished from it.

Rooted Cuttings
\$12.00 per 100; \$100.00 per 1000

JOHN REIMELS
CEDAR LANE, WOODHAVEN, L. I., N. Y.
Mention the Florists' Exchange when writing.

Chrysanthemums, Roses and Carnations.

Chrysanthemum Stock Plants:

WHITE.—Miss Alice Byron, W. H. Chadwick.

PINK.—A. J. Balfour, Ethelyn, Maud Dean, Mlle. Marie Liger.

YELLOW.—Yellow Eaton.
15c. each; \$1.50 per dozen; \$10.00 per 100; 50 plants at 100 rate.

WHITE.—Geo. S. Kalb, Polly Rose, Willowbrook, Niveus, Queen, Timothy Eaton.

PINK.—Glory of the Pacific, Pink Ivory, J. K. Shaw, Adela, Mrs. Ferrin.

YELLOW.—Mourovia, Miss Georgiana Pitcher, Col. D. Appleton, Major Bonaffon, Mrs. Trenor L. Park, H. W. Rieinan.

RED CULLINGFORDII.

10c. each; \$1.00 per dozen; \$7.50 per 100.

Lily of the Valley Pips

We have several million in the field of various ages, and shall be able to offer one and two-year-old pips, also clumps, which contain pips, of all ages, to the trade at the following prices. These are for planting out-of-doors.

One-year-old, per 1000.....	\$2.00
Two-year-old, per 1000.....	4.00
Clumps, \$15.00 per 100. Larger quantities at special prices.	

Early spring delivery.
We shall be pleased to quote special prices for one and two-year-old pipe on lots of 25,000 and over.

We are now grafting roses and will be glad to book orders for any of the Choice and Standard varieties. See 1905 price list for varieties and prices.

Rooted cuttings now ready of all of the new and choice varieties of Carnations. Send for price list.

R. N. PIERSON, Cromwell, Conn.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS
10,000 Joost, \$7.50 per 100. Well rooted, ready now. Cash with order, please.

R. PRITCHARD, 6th Avenue, Astoria, L. I. City, N. Y.

Mention the Florists' Exchange when writing.

HARRY FENN

\$2.00 per 100; \$15.00 per 1,000
LAWSON and QUEEN LOUISE
\$1.25 per 100; \$10.00 per 1,000

Strong Rooted Cuttings from 20,000 Plants
Hession, Clarkson St., near Utica Ave. FLATBUSH, BROOKLYN, N. Y.

Mention the Florists' Exchange when writing.

CARNATION PLANTS

From 2 inch pots.
Mrs. Fisher, for Summer bloom, strong, \$2.50 per 100.
Genevieve Lord, Queen Louise, \$2.50 per 100.
Rooted Cuttings of Genevieve Lord, \$1.00 per 100; unrooted 5c. per 100.
Cash with order.

WM. KEIR, Pikesville, Md.
Mention the Florists' Exchange when writing.

WHITE LAWSON
Carnation

Rooted Cuttings, \$5.00 per 100.
Mrs. Patten, \$5.00 per 100.

H. F. LITTLEFIELD, Worcester, Mass.
Mention the Florists' Exchange when writing.

MODEL EXTENSION
Carnation Supports

ALSO
Wire Rose Stakes and Tying Wire
IGOE BROS., Manufacturers, Brooklyn, N. Y., 226 North 9th St.
Mention the Florists' Exchange when writing.

Carnations

F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

CHICAGO

CARNATION CO.

JOLIET, ILL.

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Now Ready

Send for price list of all the new and standard sorts.

WILLIAM SWAYNE, Box 226, Kennett Square, Pa.
Mention the Florists' Exchange when writing.

J. D. THOMPSON
CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty

Mention the Florists' Exchange when writing.

CARNATIONS

	Rooted Cuttings
	From flowering stems
	only, Al stock
Mrs. M. A. Patten.....	per 100 \$6.00 per 1000 \$50.00
Flamingo.....	6.00 " 40.00
Enchantress.....	3.50 " 27.50
Boston Market.....	3.00 " 25.00
J. H. Manley.....	3.00 " 25.00
Fair Maid.....	2.50 " 20.00
Harry Fenn.....	2.50 " 20.00
Mrs. T. W. Lawson.....	2.50 " 20.00
Gov. Wolcott.....	2.50 " 20.00

HENRY A. STEVENS CO., East St., Dedham, Mass.
Mention the Florists' Exchange when writing.

ROOTED

Carnation Cuttings

All orders filled in rotation.

	Per 100
Mrs. M. A. Patten, Var.....	\$6.00
White Lawson.....	5.00
Flamingo, scarlet.....	5.00
Albatross, white.....	5.00
Enchantress.....	3.00
Queen, white.....	3.00
Boston Market, white.....	3.00
Queen Louise.....	2.50
Lawson.....	2.00
J. H. Manley, scarlet.....	2.00
Challenger.....	2.00

Write for prices on large lots. 5 per cent. discount for cash with order.

JAMES D. COCKCROFT, Northport, Long Island, N. Y.
Mention the Florists' Exchange when writing.

CARNATION CUTTINGS—Rooted.

ORDERS FILLED NOW. SATISFACTION GUARANTEED.

	Per 100	Per 1000
Fair Maid, beet paying light pink.....	\$2.50	\$25.00
Alpine Glow.....	2.00	20.00
Queen Louise.....	2.00	20.00
Flora Hill.....	2.50	25.00
Prosperity.....	2.50	25.00
Gov. Wolcott.....	2.50	25.00
Harry Feou.....	2.50	25.00
Challenger.....	2.50	25.00
Frances Joost.....	1.50	15.00

FOR SUMMER BLOOMING:

Mrs. Fisher.....	1.00
Wm. Scott.....	1.50

The above named Standard Varieties are all well rooted and obtained from strictly healthy stock only.

HANSEN & LUNDSTED, Passaic, N. J.

Mention the Florists' Exchange when writing.

New Carnation CRISIS

THE FINEST SCARLET. LARGE FLOWER. LONG STEM. NEVER FADES. NEVER BURNS.
PERFECTLY HEALTHY. THE BEST SHIPPER. BRINGS THE HIGHEST PRICE. THOROUGHLY TRIED. A MONEY MAKER.

PRICE: \$12.00 per 100; \$100.00 per 1000.
SEND FOR CIRCULAR.

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

ROOTED

Carnation Cuttings

	Per 100	Per 1000
Mrs. M. A. Patten.....	\$5.00	\$50.00
Prosperity.....	2.50	25.00
Fair Maid.....	2.50	25.00
Mrs. T. W. Lawson.....	2.50	25.00
Mrs. Nelson.....	2.50	25.00
Harlowarden.....	2.50	25.00
Harry Fenn.....	2.50	25.00
The Queen.....	2.50	25.00
Queen Louise.....	2.00	20.00

Standard Greenhouses, NORWOOD R. I.

Mention the Florists' Exchange when writing.

WM. PENN

READY NOW. NO WAITING.

A pleasing shade of pink, on a stiff, wiry stem. Growth clean and upright, no useless foliage. Flowers large enough for all ordinary purposes. Will Produce More Flowers per square foot Than Any Carnation Now Grown.

Worth growing by the thousand, but rather than have you miss trying it, I will mail, free of charge, 25 rooted cuttings for \$2.50.

\$10.00 per 100; \$75.00 per 1000; 250 for \$18.75
Send for List of Other Varieties.

Queen Louise and Lillian Pond at \$10.00 per 100, at \$12.50 per 1000,
Floriana and Harry Fenn at \$12.50 per 1000.

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

	White	per 100	1,000
Queen.....		2.50	25.00
Queen Louise.....		2.50	25.00
Boston Market.....		2.00	15.00

	Pink	
Nelson Fisher.....		6.00
Ethel Ward.....		4.00
Enchantress.....		3.00
Lawson.....		2.00
Fair Maid.....		15.00

	Crimson	
Harlowarden.....		2.50 20.00

	Variegated	
Judge Hinesdale.....		4.00
Prosperity.....		2.00 15.00

S. J. REUTER, Westerly, R. I.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

QUEEN LOUISE, F. Joost, Challenger, \$1.50 per 100, \$12.50 per 1000; **Boston Market, Mrs. T. W. Lawson, Prosperity, Fair Maid,** \$2.00 per 100, \$15.00 per 1000; **Harry Fenn, Harlowarden,** \$2.50 per 100, \$20.00 per 1000; **Patten,** \$3.00 per 100, \$25.00 per 1000; **Mrs. Patten,** \$5.00 per 100, \$45.00 per 1000. 250 at 1000 rate.

Boston Ferns, from benches, good for 5 in., 6 in. or 7 in. pots, 25c., 35c. and 50c.

JAMES E. BEACH
2019 Park Avenue, BRIDGEPORT, CONN.

Mention the Florists' Exchange when writing.

The Florists' Exchange

ROOTED CARNATION CUTTINGS

White	100	1000	Variegated.	100	1000	Crimson	100	1000	Poi-Grown Carnations.	2 inch stock.
May Naylor.....	\$2.50	\$20.00	Prosperity.....	\$2.50	\$20.00	Harlowarden.....	\$2.50	\$20.00	Lawson, Queen Louise, Prosperity, \$1.00 per 100; \$30.00 per 1000.	2. Harlowarden, \$5.00 per 100; \$40.00 per 1000. Enchantress, \$6.00 per 100; \$50.00 per 1000.
Queen.....	2.50	20.00	Judge Hinsdale, 4.00			Harry Penn.....	2.50	20.00	Grafted Roses on Strong English Manetti Stock	
Queen Louise ..	2.00	15.00	Pink			Searlet			Bridesmaid, Bride, Ivory, Golden Gate, Chatsenay, \$120.00 per 1000.	S. S. PENNOCK, The Wholesale Florist of Philadelphia.
Gov. Wolcott.....	2.00	15.00	Enchantress.....	\$3.50	\$30.00	Flamingo.....	\$8.00		Uncle John, La Detroit, Gen. McArthur, \$18 per 100.	
Boston Market ..	2.00	15.00	Lvson.....	2.00	15.00	Gov. Bliss.....	2.50	\$20.00	Mention the Florists' Exchange when writing.	
Variegated			Fair Maid.....	2.00	15.00	Crane.....	2.00	15.00		
Mrs. Patten.....			Nelson Fisher ..	6.00						

S. S. PENNOCK,
The Wholesale Florist of Philadelphia.

My Need for Room Is Your Chance
10 per cent. discount for cash if taken at once on my

CARNATION CUTTINGS

Per 100; Flamingo, Indianapolis \$5.00; Crus-der, \$5.00; Fair Maid, Boston Market, \$1.75; Queen, \$2.50; Enchantress, \$3.00; Lawson, \$1.40; Boston Market, Fair Maid, unrooted, \$1.00. Write for other varieties. Rooted Bonnaffon for sale.

OTTO BOURDY, LOWELL, MASS.
Mention the Florists' Exchange when writing.

CARNATIONS

50,000 rooted cuttings; good strong plants, now ready for delivery.

	Per 100	Per 1000
MRS. T. W. LAWSON	\$2.00	\$15.00
WHITE LAWSON	5.00	45.00
MRS. M. A. PATTEN	4.00	40.00
BOSTON MARKET	2.00	18.00
PROSPERITY	2.00	18.00
ADMIRAL CERVEIRA (var.)	2.00	
MRS. T. W. LAWSON and BOSTON MARKET, from 2 1/4-in. pots or flats, good strong plants from cuttings made last November 500 at 1000 rates.	20	200

Satisfaction guaranteed. Cash with order.

VIOLETS PRINCESS OF WALES
Unrooted cuttings, ready now, 50 cts per 100; \$4.00 per 1000.

Rooted cuttings, ready for delivery in March, 1906, \$1.50 per 100; \$12.00 per 1000.

ALYSSUM LARGE DOUBLE SWEET, rooted cuttings, 75 cts. per 100; from 2-in. pots, \$1.50 per 100.

Please place your orders now.

FD. BOULON & SON
SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

WM. PENN

Now ready. A magnificent shade of Pink. I am also growing it, and the blooms average from 2 1/4 to 3 inches; at-m 18 to 24 inches. Will produce more flowers per square foot than any Carnation I know of. Clean and strong rooted cuttings. \$1.50 per doz.; 25 for \$2.50, will be sent by mail, \$10.00 per 100; \$75.00 per 1000.

SNOWDRIFT, pure white.....\$1.25 10.00
PROSPERITY.....1.25 12.00
JOOST.....1.00 8.00
PERU.....1.00 8.00

26 at 100 rate. Cash please.

ASPARAGUS PLUMOSUS NANUS, 4 inch pots, 2 years old, \$8.00 per 100.

JOHN R. SCHREINER
LANCASTER, PA.
Mention the Florists' Exchange when writing.

	100	1000
Prosperity.....	\$2.00	\$15.00
Lawson.....	2.00	16.00
Maceo.....	1.50	15.00
Queen Louise.....	1.50	15.00
Gov. Wolcott.....	1.50	15.00
May Naylor.....	1.50	15.00
Joost.....	1.25	12.00
Eldorado.....	2.00	20.00
Bradt.....	3.50	35.00
Enchantress.....	1.25	
Scott.....	1.25	

Grafted Bride and Bridesmaid Roses, \$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR
Southport, Conn.
Mention the Florists' Exchange when writing.

MY MARYLAND

Was the Sensation of the Chicago Exhibition
Easily outranks any other White

Awarded First Class Certificate of Merit by the American Carnation Society; Lawson Bronze Medal for 100 blooms, and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white.

We are booking orders now for delivery, January, 1906.

Price, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

Write us for other new and standard varieties.

H. WEBER & SONS
OAKLAND, MD.
Mention the Florists' Exchange when writing.

RED LAWSON

Sport from Mrs. Thos. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's away ahead of all the reds.

Price, per 1000 \$75.00; per 100 \$10.00. 250 at 1000 rate.

ROOTED CUTTINGS

	Per 100	Per 1000
2000 FAIR MAID.....	ready now \$2.00	\$12.50
4000 QUEEN.....	" 2.00	15.00
6000 BOSTON MARKET.....	" 2.00	12.50
2000 QUEEN LOUISE.....	" 1.25	8.00
1000 MRS. ROOSEVELT.....	" 1.25	10.00
1000 DEXTER PIERCE (bright red)		10.00

Satisfaction guaranteed or money refunded.

Quidnick Greenhouses, Anthony P. O., R. I.
J. H. CUSHINO, Prop.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS CARNATIONS

	100	1000
Flamingo.....	\$6.00	Enchantress.....\$3.00
Estelle.....	2.00	Queen.....2.00
Prosperity.....	2.00	Lawson.....1.50
Boston Market.....	1.50	Her Majesty.....1.50
Wolcott.....	1.50	Harlowarden.....1.50
Crane.....	1.50	Queen Louise.....1.50
Hill.....	1.00	Joost.....1.00

Violets, Princess Wales.....\$1.00
Vinca Variegata Niveus, Robinson, Mrs. J. Jones, Polly Rose, White Bonnaffon, M. Bonnaffon, Omega, Gol en Wedding, Golden Beauty, W. K. Shaw, V. Morel and Bl'k Hawk. 1.50

Strong stock. Satisfaction guaranteed. Special prices on large quantities. Cash.

SMITH & GANNETT, Geneva, N. Y.
Mention the Florists' Exchange when writing.

Carnation Cuttings

	Per 100	Per 1000
Enchantress.....	\$4.00	\$30.00
Queen.....	3.00	25.00
Fair Maid.....	3.00	25.00
Harry Penn.....	3.00	25.00
M. A. Patten.....	8.00	60.00
Queen Louise.....	2.00	15.00
Lawson.....	2.00	15.00
Wolcott.....	2.00	15.00
Manley.....	2.00	15.00
Estelle.....	2.00	15.00

Our stock is first-class, and we guarantee our cuttings to be AI and well rooted. Orders from parties unknown to us must be accompanied by cash or satisfactory references.

THE LEWIS CONSERVATORIES, MARLBORO, MASS.
W. L. LEWIS
Mention the Florists' Exchange when writing.

Enchantress

The most popular and best paying of all Carnations. Large stock of rooted cuttings now ready. \$3.00 per 100; \$25.00 per 1000.

	100	1000
White Lawson ..	\$6.00	\$50.00
Flamingo.....	6.00	60.00
The Queen.....	2.50	20.00

CARDINAL
from 2 in. pote, \$12.00 per 100; ready now.

LARCHMONT NURSERIES
LARCHMONT, N. Y.
Mention the Florists' Exchange when writing.



Some Notes on Carnation Growing.

(Abstract of Paper read by Edward A. Stroud before the Florists' Club of Philadelphia, February 7, 1905.)

There has been some advancement made in the culture of the carnation, due to the introduction of Mrs. T. W. Lawson, by Peter Fisher, which, to my mind, marks the dividing line between the old and the new. The carnation industry may be classed under three heads: first, the growing of the flower for the public; second, the production for cuttings for the trade, and, third, the raising of seedlings. With us it would be impossible to handle the three together, and we think each grower should decide for himself which branch he and his place are best suited to and which will bring him the best results. We have taken up the cut-flower production, and our experience has been a practical one. As far as we can see, there is no great secret connected with producing the flowers; we have tried to follow Nature's laws, using common sense—close attention to details—cleanliness and houses well ventilated. One of the most essential points, undoubtedly, is to have good stock to start with, for if the young stock is unhealthy there is little hope of ever obtaining first-class blooms. We select our stock carefully, from flowering stems as much as possible; of course, on some of the new varieties we buy we are compelled to cut closer in order to get sufficient stock. We put in the sand first those that take the longest time to make plants, such as Prosperity, Mrs. Lawson and Flamingo, following with those that we get more quickly. When rooted we pot them in 2-inch pots, then into 3-inch, and, if necessary, into 4-inch. We take great care in watering, not allowing the young plants to suffer at any time for want of it; this insures us a clean, kind growth. From the propagating house we remove them into the field or into the bench, the latter method being adopted by most of our modern growers.

Our slight experience with indoor culture has not been a decided success over field culture, and we think that in our climate, situated as we are, a compromise between the two is much the better. We have adopted the plan of early propagating, planting in the field as soon as the weather permits and lifting the middle of July. These measures have given us the best results, although we feel that, to make a fair test, planting in the house should be made the same time as in the field and not early in June, as we heretofore have done. The objection to indoor culture might be the throwing out of our plants before Decoration Day and the poor prices obtainable during the chrysanthemum season. We throw out our old plants in July, take out the soil, whitewash the benches, and then give a thorough fumigation, after which the soil is replaced as quickly as possible, extra labor being hired for this purpose. Last year our houses (of which there are three, each 308 by 30 feet) were emptied on the 17th of July and planted with new stock by the 3d of August; this we consider very important, as it would be

RED SPORT (Of Maceo.)

Red Sport has proved the greatest money-maker we ever grew, producing more good blooms to the square foot of bench room than any other variety on the place. During the glut the first part of January we could only get four cents for fancy Lawson and sold every Red Sport we had at five cents. Every grower who was here in December was carried away with its possibilities, as a future supply of a "holly berry red" for Xmas. There is no pick in the blooms. They are all a uniform size and color. There are 40,000 or 50,000 buds showing in different stages of development at this time and there is not a split or off color bloom in the lot and every plant is the picture of health. We will plant 20,000 plants of Red Sport for next season's bloom and the cut is already engaged by two of Washington's leading retailers. Red Sport is an easy doer and everyone can grow it as successfully as we can. Price for Feb. 23th delivery—12 for \$1.50; 25 for \$2.50; 50 for \$4.00 post-paid; \$8.00 per 100; \$50.00 per 1000.

QUEEN LOUISE, still the greatest money-maker of any white; our stock is very vigorous and healthy. \$1.25 per 100 post-paid; \$10.00 per 1000. We guarantee stock to arrive in good condition and be well rooted.

A. B. DAVIS & SON, Carnation Specialists, PURCELLVILLE, VA.
Mention the Florists' Exchange when writing.

500,000 VERBENAS Varieties

THE LARGEST AND FINEST STOCK IN THE COUNTRY
Perfectly Healthy No Rust

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

300,000 CARNATIONS Rooted Cuttings. Clean and Healthy

CRISIS, New Commercial Carnation, \$12.00 per 100; \$100 per 1000

	Per 100	Per 100	Per 1000	
Mrs. Patten ..	\$6.00	Enchantress ..	\$3.00	\$25.00
Judge Hinsdale ..	4.00	Mrs. Lawson ..	2.00	15.00
Lady Bountiful ..	5.00	Adonis ..	2.50	20.00
Flamingo ..	6.00	Harry Fenn ..	2.00	15.00
Dorothy Whitney ..	3.00	Gov. Roosevelt ..	1.50	12.00
Golden Beauty ..	3.00	Mrs. Potter Palmer ..	1.25	10.00
Buttercup ..	3.00	The Queen ..	2.50	20.00
Prosperity ..	2.00	Mrs. E. A. Nelson ..	1.50	12.00
Mrs. J. H. Manley ..	2.50	White Cloud ..	1.50	12.00

60,000 GRAFTED ROSES For Forcing

THE FINEST CROWN

Orders booked now for delivery In April, May and June

LIBERTY Rose pots, \$12.00 per 100; 3 1/4 inch pots, \$18.00 per 100

BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN
Rose pots, \$10.00 per 100; 3 1/2 pots, \$15.00 per 100

J. L. DILLON Bloomsburg, Pa.
Mention the Florists' Exchange when writing

CARNATIONS ROOTED CUTTINGS

All in Fine Condition, Well Rooted.

PINK.	
100	1000
Mrs. T. W. Lawson	\$1 50 \$12 50
Guardian Angel	1 00 9 00

LIGHT PINK.	
100	1000
Enchantress	\$3 00 \$25 00
Morning Glory	1 50 12 50
Mrs. Higginbotham	1 25 10 00

RED.	
100	1000
Estelle	\$2 50 \$20 00
Chicago	2 00 15 00
Adonis	2 50 20 00

WHITE.	
100	1000
Flora Hill	\$1 00 \$9 00
White Cloud	1 25 10 00
Her Majesty	1 50 12 50
CRIMSON.	
100	1000
Harlowarden	2 00 15 00

WIETOR BROS., 51-53 Wabash Avenue, Chicago, Ill.

Mention the Florists' Exchange when writing.

very poor economy to let the work drag along.

We make a compost heap every Fall, consisting of one part cow manure to three parts of soil, adding some air-slacked lime to sweeten things up a bit. We turn the pile once in the Spring and again before it is wheeled into the houses. There is one point in regard to soil which we consider very important, that we term its mechanical condition, which means a soil which will drain water freely, and at the same time distribute food to the roots—this is particularly important after planting from the field.

The bewildering subject of stem rot and its causes is, to my mind, due to impaired root action and a drowning process of watering. This can occur in the propagating bench, the pot, the flats or the fields, and a check of some sort is generally responsible for it.

It is well to be progressive, but we would advise the man with limited glass not to attempt too many, three or four, in the various colors, which require the same treatment, is best. By keeping careful records we find that those that produce the greatest number of flowers are not necessarily the most profitable.

Our experience proves that it pays to work together with our commission man, keeping him posted as to what we will have and when we will ship. This gives him an opportunity to make sales which he might otherwise lose. We advise frequent visits to the wholesaler, not necessarily to see the proprietor, but to examine goods there, see how they are keeping, and compare with the product of other growers.

Valuable lessons may be learned in this way. It is hardly necessary to call your attention to careful bunching and packing. In conclusion, I would quote Fred Lemon, when he said at the Chicago carnation convention: "If you wish to succeed, nothing is too much trouble."

ROOTED CUTTINGS CARNATIONS

Per 100		Per 1000	
Enchantress	\$3 00	Florianna	\$1 50
Lawson	2 00	Morning Glory	1 50
Queen Louise	2 00	Gov. Roosevelt	1 50
May Naylor	1 50		

Strong healthy stock. Satisfaction guaranteed. Cash with order, please.

IEWETT CITY GREENHOUSES, Jewett City, Conn
Mention the Florists' Exchange when writing.

Carnations SELECTED ROOTED CUTTINGS

CLEAN, HEALTHY STOCK FROM SAND AND SOIL	
per 100 1000	
Enchantress	\$3 50 \$30 00
Queen	2 50 20 00
Lawson	2 00 15 00
Welcott	2 00 15 00
Queen Louise	2 00 15 00
Genevieve Lord	1 25 10 00
Florianna	1 50 12 50
Pianee	12 00 100 00

Careful packing. Stock guaranteed satisfactory in every way.
ROBERT C. PYE, NYACK, N. Y.
Mention the Florists' Exchange when writing.

PROSPECTOR RED SPOT FROM MACEO

Color equal to Estelle, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market, producing more blooms to the square foot than any variety now grown.

It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz.

Easy grower, free from disease, and, like its parent, can be planted close, as there is no surplus green, every shoot producing a flower.

We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

COME AND SEE THE STOCK GROWING

H. W. FIELD, Northampton, Mass.
Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Mention the Florists' Exchange when writing.

CALIFORNIA CARNATION CO.

Loomis, Cal.

Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

Good clean stock, well rooted.

Lawson	\$1.25 per 100
Queen Louise	1.25 "
Gov. Roosevelt	1.50 "
Lorna	1.25 "
White Cloud	1.25 "
Norway	1.25 "

Will exchange for 2 or 3 inch pot Geraniums, Stocks, Verbenas, Feverfew. Or let us know what you have for exchange.

STAFFORD FLORAL CO., Stafford Springs, Conn.

Mention the Florists' Exchange when writing.

Rooted Carnations Fine healthy Cuttings Stock

Ready now. Orders booked for future delivery.

White Lawson (5000 ready now)	\$7.00 \$80.00
Lady Bountiful	6.00 60.00
Mrs. M. A. Patten	6.00 50.00
Nelson Fisher	7.00 60.00
Dahling Glory	6.00 60.00
Flamingo	6.00 "
Enchantress	3.50 30.00
Boston Market	2.50 20.00
The Queen	2.50 20.00
Mrs. T. W. Lawson	2.00 18.00
Gen. Maceo	2.00 15.00
Morning Glory	2.00 15.00
Mrs. G. M. Bradt	3.00 25.00
Melba	1.50 12.00
Queen Louise	1.50 12.00
White Cloud	1.50 12.00

List of other varieties on application.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as desired.

Bride, Bridesmaid, Golden Gate, from 2 1/4 inch pots, \$12.00 per 100. Killarney and Franz Deegen, from 2 1/4 inch pots, \$15.00 per 100.

OWN ROOT. FINE STOCK.

Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

GERANIUMS

Double, single and Ivy Leaf varieties	100 1000
Strong pot plants	\$3.00 \$25.00
Strong rooted cuttings	2.00 15.00

VERBENAS

Best Mammoth, rooted cuttings	100 1000
	\$1.00 \$8.00

CHRYSANTHEMUMS

ROOTED CUTTINGS
Send for catalogue for varieties and prices.

MISCELLANEOUS

Ageratum, Cope's Pet, White Cap	100 1000
P. Peuline, S. Gurney, L. Bonnet	\$1.00 \$8.00
Achyranthes, four sorts	1.00 3.00
Canna, dry root, named varieties	2.00 18.00
Coleus, best bedding and fancy sorts	1.00 8.00
Cuphea	1.25 "
Fuchsia, double and single	2.00 15.00
Feverfew, double white	1.50 12.00
Heliotrope, light and dark	1.25 10.00
Impatiens Sultan	2.00 "
Ivy, German	1.50 "
Moon Vine, true white	2.00 15.00
Salvia, Splendens and Bedmud	1.25 10 00
Salvia, new early flowering sorts	1.50 12.00
SMILAX, 2 1/2 in., \$2.50 per 100; \$20.00 per 1000;	
3 in., \$3.00 per 100.	
ASPARAGUS SPRENGERI, 3 in. pots, \$8.00 per 100; 3 1/4 in., \$8.00 per 100.	

WOOD BROS., Fishkill, N. Y.
Mention the Florists' Exchange when writing.

Rooted Carnations Clean and Healthy Cuttings

Mrs. M. A. Patten	\$0.00
Nelson Fisher	7.00
Enchantress	3.00
Walcott, Boston Market J. H. Manley, Maceo	2.00

SIDNEY LITTLEFIELD, North Abington, Mass.
Mention the Florists' Exchange when writing.

THE ONLY WHITE CARNATION (Tried 3 years and not found wanting!)

"THE QUEEN"

Rooted cuttings, \$2.50 per 100; \$22.50 per 1000.
Unrooted cuttings, \$1.50 per 100; \$12.50 per 1000.

HENRY EICHHOLZ, Waynesboro, Pa.
Mention the Florists' Exchange when writing.

\$12.00 per 100 \$100.00 per 1000 250 at 1000 rate VICTORY TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

WHITE LAWSON	\$6.00 per 100	HARRY FENN	\$2.50 per 100
NELSON FISHER	6.00 "	GOETHE, light pink	2.50 "
MRS. PATTEN	6.00 "	GENEVIEVE LORD	2.50 "
ENCHANTRESS	3.00 "	MANLEY	3.00 "
PROSPERITY	3.00 "	MACEO	1.50 "
THE BELLE	6.00 "	CERVERA	2.00 "
LADY BOUNTIFUL	6.00 "	LAWSON	2.00 "

5 per cent. discount for cash with order. Send your orders early.

ALEXANDER J. GUTTMAN

52 W. 29th St., New York City.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

PHYLLIS	\$12.00	\$100.00	NELSON	\$1.50	\$12.50
CHICAGO WHITE	12.00	100.00	LAWSON	1.50	12.50
RICHMOND DEP	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIGGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
ENCHANTRESS	3.00	25.00	QUEEN LOUISE	1.00	9.00
BOSTON MARKET	2.50	20.00	PERU	1.00	9.00
ADONIS	2.50	20.00	G. ANOEL	1.00	9.00

ROSES

Rooted Cuttings

CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

2 1/2 Pot Plants

Per 100	Per 1000	Per 100	Per 1000		
RICHMOND	\$30.00	\$250.00	CHATENAY	\$4.00	\$30.00
ROSALIND ORR ENG-LISH	25.00	200.00	SUNRISE	4.00	30.00
LA DETROIT	6.00	50.00	KAISERIN	4.00	30.00
LIBERTY	5.00	45.00	BRIDESMAID	3.00	25.00
PERLE VON GODESBERG	5.00	40.00	BRIDE	3.00	25.00
UNCLE JOHN	4.00	35.00	IVORY	3.00	25.00
			PERLE	3.00	25.00

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

PETER REINBERG, 51 Wabash Ave., Chicago

Telephone, 2846 Central

Mention the Florists' Exchange when writing.

CLASSIFIED ADVERTISEMENTS

Cash with Order

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), set solid, without display.

Display advertisements in these columns 15 cents per line; count 14 lines to the inch.

No advertisement taken for less than 50 cents (35 words), except Situations Wanted.

If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.

STOCK FOR SALE

CARNATIONS and violets, unroofed cottages; all the leading bread-and-butter kinds; five different kinds of violets. My stock is all right in every particular. Write for varieties and prices. Paul Thomson, West Hartford, Conn.

ROOTED CARNATION CUTTINGS—Prices quoted per 100, per 1000. White: Queen, \$2.00, \$17.00; Boston Market, \$2.00, \$17.00; Louise, \$1.25, \$10.00; Glacier, \$1.25, \$10.00; Woolcott, \$2.00, \$17.00. Variegated: Mrs. Patten, \$1.00, \$30.00; Mrs. Bradt, \$2.00, \$15.00; Red: Crane, \$1.25, \$12.00; Challenger, \$1.25, \$10.00; Fleming, \$5.00. Pink: Nelson, \$1.25, \$12.00; Joost, \$1.25, \$10.00; Enchantress, \$2.50, \$25.00. Cash with order, please. Simon Brothers, Wilmington, Del.

READY NOW 2,000 HARRISH EASTER LILIES

1 1/4 to 4 ft. high, with fine foliage.

10 cents per bud or flower, in pot or cut.

CHRISTIAN DEHN

178-80 Beekman St., Saratoga Sp'gs, N. Y. Mention the Florists' Exchange when writing.

STOCK WANTED

ROSES—Catalogues and price lists wanted from all growers. Theodore Wirth, Supt. Public Parks, Hartford, Conn.

WANTED to arrange with growers to ship violets, roses and other cut flowers to us. Francis, Florist, Boardwalk, near North Carolina Ave., Atlantic City, N. J.

WANTED, 2,000 variegated Vinca, and 500 green Vinca, field-grown, not potted. Quote lowest price for cash. Alexander Mead & Son, 349 Lake Ave., Greenwch, Conn.

SITUATIONS WANTED

POSITION wanted by florist in retail store; good maker-up and decorator; references. Chas. Willson, 2212 Eighth Ave., New York.

ORCHID GROWER wants position; experienced, first-class, private or commercial; life-long experience. Address G. C., care Florists' Exchange.

ORCHID GROWER, propagator, fancy plant grower, 25 years' experience, references A1. Apply to No. 24, care Julius Reubens Co., Rutherford, N. J.

SITUATION wanted by young man as working foreman; store and greenhouse plant grower; take full charge of good commercial place. Address G. D., care Florists' Exchange.

GARDENER, German, 27, wishes position in commercial place; can furnish best of references from large place in Germany. Address S. Natanbluh, New Brighton, S. I., N. Y.

POSITION wanted in April by young man as foreman; used to handling men; experienced in all branches; competent to take full charge. Address G. B., care Florists' Exchange.

SITUATION wanted by Swede, 24, single; good all-around florist and gardener, 12 years' experience; private or commercial; state wages. Address A. Ericsson, care Svensson, 214 St. Ann's Ave., New York.

SITUATION wanted by German, 33, in retail florist store; life experience; decorator, designer, etc.; able to take charge; best references. (Last position three years.) Address E. B., Box 245, Spencer, Mass.

GARDENER, florist, single young man, strictly sober; life experience in all branches, wants steady position on place where good stock is grown; best of references. Please state wages. Florist, 527 Courland Ave., New York.

GARDENER, Scotch, married, wants position; capable of taking charge of gentleman's place; life experience with fruits, flowers and vegetables; under glass and outside; good references. Address G. A., care Florists' Exchange.

GARDENER and florist, 38, married, with 23 years' practical experience and highly recommended, desires situation on private place with greenhouses; four years as head gardener in last position. P. O. Box 435, Tarrytown, N. Y.

SITUATIONS WANTED

YOUNG man, 11 years in the trade, wants position with grower of general stock; good references. State wages. Address, D. B., care Florists' Exchange.

SITUATION wanted by first-class florist, German, 38 years of age; single; cut flowers, palms, and bedding plants. Address E. A., care Florists' Exchange.

GARDENER, married, no children, age 41; experienced in all greenhouse work, forcing of fruits and vegetables; all outside departments on private place. References. Address Cameron, Saugatuck, Conn.

SITUATION wanted as working foreman on commercial place where roses are grown principally; have had 18 years' experience; I am confident of giving satisfaction to anyone who may need same. Address A. B. C., Summit, N. J.

GARDENER, 40, with 24 years' practical experience in growing cut flowers, decorative and bedding plants, desires permanent position, or would rent small place 8 to 10 greenhouses near New York. Address with full particulars, Gardener, 79 Lott St., Flatbush, L. I., N. Y.

SCANDINAVIAN, married (two children), up-to-date grower and propagator, expert designer, wants position in retail commercial or private place; life experience, Europe and United States; distance no objection; state wages. Address Nielsen, Linden Ave., Ossining, N. Y.

GARDENER wants position. Experienced and competent in the care and management of gentleman's estate; first-class grower of fruits, flowers, and vegetables under glass and outdoors. Married, no family; age 35, excellent references; sober and reliable. Address F. C., care Vanchaun's Seed Store, 14 Barclay Street, New York.

SITUATION wanted. Gardener, 30 years' experience; married, no children; desires position; capable of taking charge of gentleman's place. Landscape gardening, fruit, vegetables, outside and under glass. Best references. Salary \$75 and cottage. Disengaged March 1st. Address C. N. H., care Dummet & Wagner, Mt. Vernon, N. Y.

HELP WANTED

WANTED, at once, a rose grower; only those with experience need apply. E. G. Asmus Son, Claster, N. J.

WANTED, AN A-NO. 1 ROSE GROWER. ADDRESS, WITH FULL PARTICULARS G. VAN BOCHOVE & BRO., KALAMAZOO, MICH.

WANTED, a man to take charge of planting gang; must be thoroughly experienced and capable of handling men. Address G. E., care Florists' Exchange.

WANTED, at once, working foreman for 16,000 feet of glass where general stock is grown for retail trade. Write, stating experience and salary expected, E. J. Byam, Florist, Rome, N. Y.

WANTED, young man with experience in rose-growing as assistant in greenhouses; must be well recommended; good wages in right man. Apply or address with full particulars, Righter & Barton, Madison, N. J.

WANTED, single man to take charge of a place of 25,000 feet, to grow roses, carnations and general assortment of a retail florist's place; must come well recommended as to ability. State full particulars to G. M., care Florists' Exchange.

WANTED, April 1, young man who understands planting and transplanting of trees, shrubs, and herbaceous plants, for general nursery and landscape work. State wages wanted and give reference. The West Side Nurseries, Worcester, Mass.

WANTED, on commercial place where carnations and potted plants are grown, a young married man, no children, with good reference, as second man; nice cottage on place to live in; wages \$40 per month and other privileges. Call and see the place. J. Sideberg, Hempstead, L. I., N. Y.

BUSINESS OPPORTUNITIES

FOR SALE, retail store in one of the largest cities. For particulars address G. G., care Florists' Exchange.

A WELL-ESTABLISHED retail flower store for sale, on best thoroughfare in Harlem. Good reasons for selling. Answer to Business, care Florists' Exchange.

A BARGAIN if sold at once, a range of four 17 x 150 ft. iron frame greenhouses with shed 20 x 114 ft., and about 5 acres of land, at Wood Ridge, N. J. Make an offer quick. Henry Berg, Orange Valley, N. J.

OPPORTUNITY for a capable man with or without capital; greenhouses to rent or buy; \$600 for stock and \$500 a year rent, or \$8,000 to buy. Will make payments possible to right man. Address G. O., care Florists' Exchange.

FOR SALE, Park Nursery, eleven greenhouses; two 20 x 100; five 12 x 60; three 20 x 60; one 20 x 80, all heated by hot water from inch pipes; Hitchings & Gurney heaters; four acres of land; a big bargain; \$3,000. Apply Jos. De Frehn, Pottsville, Pa.

FOR RENT, 11,000 feet of glass, 35 miles from New York, \$500 for stock and good-will, and \$75 per month rent; about one acre of land; barn, horse and wagons; good wholesale and retail trade. Owner cannot attend to it. Address G. P., care Florists' Exchange.

BUSINESS OPPORTUNITIES

FOR SALE, only florist business in town of 30,000, doing good business; cause ill-health in family; good climate. Apply to C. H. Kolle, Beaumont, Tex.

FOR SALE—The greenhouses, dwellings, and land is offered for sale in part or whole, at a sacrifice, to close the estate of the late Grove P. Rawson, Elmira, N. Y. Address, Eva J. Rawson, Administratrix.

FOR SALE cheap, small retail florist store; good chance for a good man, in city of over 100,000 inhabitants, near New York. Cheap rent; located in the best business street, among churches, schools, and undertakers; doing fine business, especially in funeral work; cars stop in front of door, running to all points; no other florist store in that part of town. Address G. N., care Florists' Exchange.

FOR SALE or rent, six greenhouses and dwelling house, in first-class condition, within one hour's ride from New York City; especially adapted for growing roses; heated by hot water; electric light and city water on place. Sale price \$7,500; cash, \$1,500, balance on time at 5 per cent; per annum; rent \$60 per month, payable in advance. Now potted up fine young stock for next season's planting. Have other business interests. For particulars address M. Z., care Florists' Exchange.

MISCELLANEOUS WANTS

WANTED to rent, about 6,000 sq. ft. of glass, near New York or Philadelphia, suitable for rose-growing; with some land and house preferred. Please state terms. Address G. F., care Florists' Exchange.

WANTED TO PURCHASE, GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLORISTS' EXCHANGE.

WANTED TO BUY

greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

MISCELLANEOUS

FOR SALE, greenhouse glass, all sizes from 6x8 to 16x24. Write for lowest prices to "Glass," care Florists' Exchange.

FOR SALE

Greenhouse Material

Milled strictly of Louisiana Cypress. Will cut and splice to order. Hot Bed Sash a specialty. Try V. E. Reich's Oxford Putty, specially made for greenhouse purposes. Estimates freely furnished for greenhouse and hot bed glass.

V. E. REICH, 1429 Metropolitan Avenue, Brooklyn, N. Y. Mention the Florists' Exchange when writing.

For Sale

NO. 12 FURMAN STEAM BOILER

as good as new; has only been fired for two weeks. Cost \$600. Price \$200.

ROBERT SCOTT & SON
Sharon Hill, Del. Co., Pa.

Mention the Florists' Exchange when writing.

FOUND!

A place where new and old material for the complete erection or repairing of

GREENHOUSES

can be procured in
Exchange for Cash

Economical florists get our prices on Glass, Boilers, Ventilating Apparatus, Fittings, Pipe, White Lead, Paint, Putty, Hot Bed Sash, Etc.

OLD GREENHOUSES BOUGHT.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.

References: Dnn, Bradstreet, and Broadway Bank of Brooklyn.

Mention the Florists' Exchange when writing.

Rambler Roses.

Much that has been said as to the treatment of potted hybrid perpetual roses applies also to pot-grown Crimson Rambler roses. This is the rose that more than any other shows the advantages of a Summer treatment in pots over field culture. Those that were potted up last Spring, instead of last November, are better plants in all respects, and easier managed. But this need not discourage any grower who depends for his Easter Ramblers on field grown and Fall planted stock alone, as most growers do. Good selling and presentable plants for that date can be made of these, if only rightly handled. Those that were started a week or two ago in a temperature of 45 degrees at night and 50 in the daytime, should now have a few degrees more heat, while those still in their Winter quarters must be started without much delay, if wanted for Easter, while, if wanted for a trade after Easter, they could still remain dormant for a time and would then require but little real forcing to have them in fine form in May. To bring Crimson Rambler into bloom starts from two to three months, all depending on the ripeness and plump condition of the canes, on how well the plants are established in their pots and on the measure of heat employed in forcing them out. But, in any case, the night temperature should not be higher than 45 degrees to start with.

The long canes, before the plants are placed on the bench, are neatly arranged in spirals around stout stakes and firmly tied; or they may be trained into any other form, promising to be effective when the plants are at their best. Every weak shoot or straggling growth is cut away. Water is given in moderation at first, but frequent sprinkling will be found helpful in the securing of an even all around break of every eye along the wood; on this, success largely depends. After the new growth is beyond all danger of becoming "stuck," or remaining "blind," the temperature may safely be raised to 50 degrees, in another 8 or 10 days to 55, and finally to 60 degrees, after which all depends on the nearness of Easter and on how far the plants have advanced in the development of their flower trusses. The grower, however, should bear in mind that, although the Rambler roses may be safely subjected to a heat of over 70 degrees, if need be, his output will be much finer, if grown and bloomed in a much lower temperature.

All through this stage in their forcing, water is given freely and the daily sprinkling continued. Fumigation must also be attended to regularly, at least once a week. Crimson Rambler roses that were pot-grown all Summer, need feeding in liquid form twice a week until the color of the trusses shows. The plants should be as near the glass as possible, and they will be all the better for being turned occasionally. Fresh air, especially towards Spring, must not be withheld, but ought to be supplied under the guidance of experience, or at least good judgment, where a lot of these roses are handled. Mildew is their arch enemy and ever ready for an attack. If, through oversight or forgetfulness, the temperature has been allowed to run up unusually high without any ventilation, heavy wetting down and sprinkling must be resorted to, and the ventilators either not opened for the time being, or very gradually, and by inches. A rush of cool air into an over-heated rose house is at all times the surest means of ruining the tender foliage and shriveling the sappy top growth of any growing rose, but none resents this cruel treatment more than the Crimson Rambler. Nor should the ventilators be thrown wide open immediately after fumigation, if this took place in the forenoon, and, again, after the plants have been forced into bloom in a high temperature, it will do them no good to be at once placed into a cool house or shed, as is done with azaleas, lilies, etc., without detriment to these plants. Roses of all kinds will keep in better shape if not thus "weaned" and will look less shop-worn and shabby.

F. W. TIMME.

LEBANON, PA.—C. C. Yost intends building this Spring one house 150x30 feet

CHRYSANTHEMUMS

The most recent introductions, both foreign and American; also the largest list of the best standard varieties in the country.

WRITE FOR PRICES

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Meretham Yellow, White Coombes, Emily Millham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 60c. each; \$6.00 per doz. Mrs. W. Duckham, the cup winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.
Mention the Florists' Exchange when writing.

SPECIAL TO MAKE ROOM QUICKLY

- 10,000 Cryptomeria Japonica, 2 in. \$3.50
 - 5000 " " " 4 in. 8.00
 - 1000 Cuphea (Ogar Plant), 2 in. 2.00
 - 1000 Smilax, 2 in. 75
 - 200 Snapdragon, White Giant, 2 in. 2.00
- E. I. RAWLINGS, QUAKERTOWN, PA.
Mention the Florists' Exchange when writing.

Boston Ferns

Extra fine stock, cut from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100. Kentias, Rubbers, Asparagus, Plumose Nana. Cash or references, please.

L. H. FOSTER, 45 King St. DORCHESTER, MASS.
Mention the Florists' Exchange when writing.

EMERSON C. McFADDEN

Wholesale Florist and Grower
Specialties
ASPARAGUS-SMILAX-ROSES
Tel. 28 A SHORT HILLS, N. J.
Mention the Florists' Exchange when writing.

A Few Good Things You Want

- Kentias. As fine a lot of single and made up plants as ever grown, in 4-in., 5-in., 6-in., 7-in. and 8-in. pots, at 20c, 35c, 75c, \$1.50 to \$3.00 each.
- Dracaena Indivisa, 3, 4 and 5 in., \$5.00, \$10.00 and \$25.00 per 100.
- Asparagus Plumosus, 2 and 3 in., \$4.00 and \$8.00 per 100.
- Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.
- Geraniums, Jean Vlaud, S. A. Nutt, Castellans, John Doyls, Perkins. Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.00 per 100.
- Unrooted Cuttings of Carnations. The best and cheapest way to buy them. Queen Louise, Portia, Crocker, Goodenough, 50c. per 100. Lawson, \$1.00 per 100.
- Vines Var., 2 in., \$2.00 per 100.
- Glaadiolus Bulbe, fine mixture, 75c. per 100, \$8.00 per 1000.
- German Ivy, 2 in., \$2.50 per 100. Cash with order.

GEO. M. EMMANS, Newton, N. J.
Mention the Florists' Exchange when writing.

PALMS AND FERNS

Person and Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$5.00 per 100; 5 in. \$20.00 per 100; 8 in., \$40.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety, from 2-1 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Latania Borbonica, 3 in., pots, \$5.00; 4 in., \$15.00; 6 in., \$25.00; 8 in., \$60.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 6 in. pots, \$50.00. 8 in. pots, \$16.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$3.50 each. Areca Lutescens, 4 in., \$20.00; 6 in., \$60.00 per 100; 8 in., \$1.00 each. Larger plants from \$1.50 up. Araucaria Excelsa, 4 in., 45c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Araucaria Compacta, from \$1.00 to \$5.00 each. Pandanus Ulfii, 8 in. pots, 50c. Dracaena Indivisa, 6 in. pots, \$16.00 per 100. Phoenix Reclinata, 6 in. pots, \$35.00 per 100; \$4.50 per doz.; 8 in. pots, \$2.00 per doz. Larger plants from \$1.00 up. Phoenix Carnariensis, fine specimens, from \$3.00 to \$35.00 each. Azaleas, 10 in., \$35.00 per 100. Larger sizes at lowest rates. Plants in fine condition.

JOHN BADER,
Troy Hill, Allegheny City, Pa.
Mention the Florists' Exchange when writing.

200 BARGAINS

200 Extra Fine Nephrolepis Fosteriana, 4 inch, full and bushy; good for immediate sales or strong enough to shift into 6-inch pots, 12c.

15 Billbergia, large plants, 14 inches across, 50c. each. CASH, PLEASE.

R. G. HANFORD, NORWALK, CT.
Mention the Florists' Exchange when writing.

KENTIA BELMOREANA

Fine clean stock, in 4 in. pots, large enough for 6 in., 26c. each; 2 1/2 in., nice for center of fern dishes, etc., 10c. each, \$9.00 per 100. Latania Borbonica, 4 in., 15c. each. Asparagus Plumosus, 2 1/2 in., \$3.00 per 100. Geraniums, Mms. Sallerol, silver leaf, 2 1/2 in., \$2.00 per 100.

H. WESTON, Hempstead, N. Y.
Mention the Florists' Exchange when writing.

ASSORTED FERNS FOR JARDINIERS

Good, bushy plants in all the best varieties, 2 1/2 in., \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate. Adiantum Cuneatum, 4 in., \$15.00 per 100; 3 in., \$6.00 per 100.

Cyrtomium Falcatum, 4 in., \$12.00 per 100.
FRANK ESKESEN, Madison, N. J.
Mention the Florists' Exchange when writing.

60,000 Grafted Rose Plants

We are now grafting on English Manetti the above amount of all selected flowering wood. NO BLIND wood used at all. We offer for sale, delivery about April 1st, in 2 1/2-inch pots, thoroughly hardened off and ready to shift into 3 1/2-inch, the following:

- Per 100
- Bride \$10.00
- Bridesmaid 12.00
- La Detroit 12.00
- Gen. MacArthur 12.00
- Liberty 12.00

ROOTED CUTTINGS—Ready Now.

- Per 100
- Bride, Bridesmaid \$1.50
- Chatenay 1.50
- Liberty 2.50
- Perle 2.50

CARNATIONS

- Per 1000
- Gov. Wolcott \$12.50
- White Cloud 12.50
- Norway 12.50
- Lawson 12.50
- Morning Glory 12.50
- Jocelyn 25.00
- Each anthers 25.00
- Flamingo 50.00
- Crusader 40.00
- Estelle 25.00
- America 12.50
- Crane 12.50
- Prosperity 12.50
- Gaety 15.00

All Plants Shipped from Hinsdale.
BASSETT & WASHBURN
Greenhouses: HINSDALE, ILL.
STORE:
76 Wabash Ave., CHICAGO, ILL.
Mention the Florists' Exchange when writing.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES	
OWN ROOT	CRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories NATICK, MASS.

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

Asparagus Sprengeri.

Strong, ready to shift. 2 in. \$2.00 per 100; \$18.00 per 1000.
DEAN FERRIS, Peekskill, N. Y.
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ORCHIDS, PALMS FOLIAGE PLANTS BAY TREES

ALL SIZES AND PRICES

JULIUS ROEHRS CO.
Exotic Nurseries
RUTHERFORD, N. J.
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Orchid Peat

FOR IMMEDIATE DELIVERY.

Our special price on Rotted Peat expires March 1. Writes at once.
G. W. BROWNELL & CO., Walden, N. Y., Orange Co., N. Y.

JOSEPH HEACOCK WYNCOTE PA.

Grower of

KENTIA BELMOREANA AND KENTIA FORSTERIANA

Mention the Florists' Exchange when writing.

ROSES, GERANIUMS

and a general line of Miscellaneous Stock. See our advertisement in last week's issue.

Send for our Wholesale List.
The National Plant Co., Dayton, O.
Mention the Florists' Exchange when writing.

ORCHIDS Cattleya Mendelii

Just arrived in fine condition a shipment of this scarce and beautiful Cattleya. Also Lelia Anceps, Gaidium tigrinum, O. Papilio, etc.

Write for special list No. 14.
LAGER & HURRELL, - SUMMIT, N. J.
ORCHID GROWERS AND IMPORTERS.
Mention the Florists' Exchange when writing.

ARAUCARIA EXCELSA

From \$1.25 to \$2.00 each.
Kentia Belmoreana, from 60c. to \$5.00 each. Rubber Plants, from \$6.00 per doz. up. Chinese Primroses, in bud and bloom, strong plants, fine strain, 5 1/2 in. pots, \$2.00 per doz. if left to our selection, or 20cts. each if customers' selection.
Cyclamen, \$3.50 per doz. up. Azaleas, from \$1.00 to \$3.00 each.
Begonia Gloire de Lorraine, from \$6.00 per doz. up. Extra fine plants.

WM. A. BOCK,
NO. CAMBRIDGE, MASS.
Mention the Florists' Exchange when writing.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI

The Most Magnificent Tree Fern in Cultivation.
Extra Large Specimens.

- 12 in. pots \$15.00 each; \$25.00 per pair
- 10 in. pots 6.00 each; 9.50 per pair
- 8 in. pots 2.75 each; 32.00 per doz.
- 7 in. pots 1.75 each; 20.00 per doz.
- Adiantum Cuneatum, 4 in., \$15.00 per 100
- Adiantum Rhodophyllum, 4 in., 20.00 per 100
- Adiantum Rhodophyllum, 3 in. 12.00 per 100

ANDERSON & CHRISTENSEN,
Mention the Florists' Exchange when writing.

ASSORTED FERNS

4 inch, suitable for large Jardiniere and basket work, in 10 good varieties, \$15.00 per 100.
Asparagus Plumosus Nanus, 4 in. \$20.00 per 100
Asparagus Sprengeri, 4 in. 12.00 per 100

ASSORTED FERNS FOR JARDINIERS
In all the best varieties, fine bushy stock, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000, 500 at 1000 rate.
Telephone Call 14 F., Short Hills, N. J.
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Wholesale Commission Dealer in Cut Flowers
 Telephone, 106 W. 28 St., NEW YORK Open at 187 Mad. Sq. 8 A. M.
 Consignments Solicited. Prompt Payments.
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CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.
 Coogan Building NEW YORK
 Open every Morning at Six o'clock for the Sale of Cut Flowers
 Wall Space for advertising purposes to Rent
 J. DONALDSON, Secretary
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Wholesale Florist

Consignments Solicited
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 Telephone No. 325 Madison Square.

GROWERS, ATTENTION!
 Always ready to receive Fine Stock

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30 West 29th Street
 Phone, 551 MADISON SQ. NEW YORK
 Violets, Roses, Carnations, Orchids
 ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

"VICTORY"

To be disseminated 1906. Also a complete line of choicest flowers.

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Wholesale Florists
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All Choice Cut Flowers in Season

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55 West 28th St., New York
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ESTABLISHED 1881 BUY FROM SHIP TO TRY ME
 Mention the Florists' Exchange when writing.

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WHOLESALE FLORISTS
 54 West 28th Street, New York
 Receivers and Shippers of
CUT FLOWERS.
 Consignments solicited. Prompt settlements
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JAMES McMANUS Telephone 759 Madison Square
50 W. 30th St., New York
 Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

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Wholesale Florists
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 SPECIALTIES - Violets, Carnations and Roses
 Shipping orders receive prompt attention. Consignments Solicited.
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WHOLESALE FLORISTS
 42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

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WHOLESALE COMMISSION FLORIST
 Receiver and Shipper of all varieties of Cut Flowers
 Telephones: { 2200 Madison Square 57 West 28th Street, NEW YORK
 { 2201 Madison Square

Wholesale Prices of Cut Flowers, New York, February 17, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy-special	40.00 to 50.00	Inf'r grades, all colors.....	.75 to 1.50
	" extra	20.00 to 25.00	STANDARD	{ White..... 1.50 to 2.00
	" No. 1	12.00 to 15.00	VARITIES	{ Pink..... 1.50 to 2.00
	" No. 2	6.00 to 8.00		{ Red..... 1.50 to 2.00
	" No. 3	2.00 to 4.00		{ Yel. & Var.. 1.50 to 2.00
	Bride, 'Maid, fancy-spc'l	10.00 to 12.00	*FANCY--	{ White..... 2.00 to 3.00
	" extra	6.00 to 8.00	grades of	{ Pink..... 2.00 to 3.00
	" No. 1	4.00 to 6.00	(The highest	{ Red..... 2.00 to 3.00
	" No. 2	2.00 to 3.00	standard var.)	{ Yel. & Var. 2.00 to 3.00
	Golden Gate.....	3.00 to 12.00	NOVELTIES.....	3.00 to 6.00
	Liberty.....	5.00 to 40.00	LILY OF THE VALLEY.....	1.00 to 3.00
	Meteor.....	3.00 to 8.00	MINONETTE, ordinary.....	2.00 to 4.00
	Mme. Abel Chatenay.....	2.00 to 10.00	fancy.....	6.00 to 8.00
	ADIANTUM.....	.50 to .75	NARCISBUS, Paper White.....	1.50 to 2.00
	CROWANUM.....	to 1.50	" Golden Spur.....	2.00 to 4.00
	ASPARAGUS.....	25.00 to 50.00	" Ordinary Yellow.....	1.00 to 1.50
	" Sprengeri, bunches	15.00 to 35.00	" Double Yellow.....	1.25 to 2.00
	CALLAS.....	10.00 to 12.00	PANSIES, per dozen bunches...	to .25
	CATTLEYS.....	50.00 to 75.00	ROMAN HYACINTHS.....	1.00 to 2.00
	CYPRIPEDIUMS.....	6.00 to 12.00	SMILAX.....	10.00 to 12.00
	DAISIES.....	.50 to 1.00	STOCKS, per bunch.....	.05 to .10
	FREESIAS, per bunch.....	to .25	TULIPS.....	2.00 to 4.00
	LILAC, per bunch.....	.75 to 1.00	VIOLETS.....	.25 to .40
	LILIES.....	6.00 to 10.00	" specials.....	.50 to .75

WALTER F. SHERIDAN

Wholesale Florist

39 WEST 28TH ST., NEW YORK
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
 JOHN I. RAYNOR, 49 West 28th St., NEW YORK
 Telephone, 1998 Madison Square

EDW. C. HORAN

55 West 28th Street
 Telephone, 421 Madison Square
NEW YORK
 CUT FLOWERS AT WHOLESALE
 Mention the Florists' Exchange when writing.

Newport, R. I.

News Notes.
 Even with the zero weather we continue to have, both florists and seedsmen are well pleased with the orders received for so early in the season. A trip among the retail florists reveals the fact that stock is not overplentiful, and has been well cleaned up every day. There has been considerable funeral work for some time past, and this has, with a good demand for cut flowers, made things good for all. Just as soon as the weather breaks and the snow goes we all look for a good Spring rush.

You never would have recognized our friend Jack Butler, as the Duke of Plaza-Toro in Gilbert & Sullivan's opera, "The Gondollers," which was given by local talent for the benefit of the Young Men's Christian Association. Florist Butler did himself proud, both in singing and acting.
 Mr. Weaver, of the George A. Weaver Company, has made the public statement "that his company will continue in business in some desirable location if the proposed plan is carried out of reconstructing the Weaver Company's present store into a hotel."

Scott is busy with early orders for seeds, and is also selling onion sets very freely. Carl Jurgens is cutting lots of narcissus in all the best sorts. W. O. Parmenter is here, seeing the customers of Ross Brothers, of Worcester, Mass. Reed & Keller, of New York, have been looking after their florists' supply business here this past week. Henry C. Anthony, the seed-grower of Portsmouth, R. I., was a recent visitor. Harry L. De Blols is, as usual, agent here for J. M. Thorburn & Co.'s seeds. F. W.

Kalamazoo, Mich.

Trade Items.
 The local papers announce that W. Cook, late store manager of the Central Nursery Co., has severed his connection with the company and will commence on his own account as landscape architect and horticultural adviser; also will take charge of wedding and other decorations at public or private occasions. Mr. Cook says he already has several good contracts ahead, so it seems there is an opening here for such a business.

The Central Nursery Company had an appropriate window display for St. Valentine's Day, which attracted much attention from passers-by. This is getting to be quite a flower day here, violets and carnations leading in popular choice. Mr. Smith, of this company, has a house of Mrs. Lawson carnations that is a proof to the contrary that this grand flower is running out, as a finer lot of plants and flowers the writer has not seen for many a day. Certainly Lawson is alone in its class, and not to be dropped yet awhile. S. B.

SEATTLE, WASH.—Mrs. Jennie Johnson, a florist, committed suicide February 2, by swallowing strychnine. She was 42 years of age and leaves a valuable estate.



Telephone Call: 756 Madison Sq.

Mention the Florists' Exchange when writing

THE AMERICAN CARNATION

Price, \$3.50
 A. T. DELAMARE PTG. & PUB. CO. LTD.
 3 to 8 Duane St., N. Y.

CARNATIONS

In Any Quantity. No better stock coming to this market

THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A.M. to 8 P.M. 1217 Arch St., Philadelphia, Pa

White Lilac, Gardenias, Orange Blossoms, Daffodils

and other seasonable SPRING FLOWERS

Philadelphia Wholesale Flower Market 1235-37 Filbert Street, PHILADELPHIA, PA.

GARDENIAS

\$3.00 per dozen. Special price on regular orders and in quantity

SAMUEL S. PENNOCK

THE Wholesale Florist of Philadelphia

R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses. Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN 7.30 A.M. to 8.00 P.M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

Mention the Florists' Exchange when writing.

Wm. J. Baker

Wholesale Florist 1432 S. Penn Square, PHILADELPHIA, PA. Seasonable Cut Flowers Fine Quality Both 'phones.

Edward Reid

Wholesale Florist 1526 Ranstead Street, PHILADELPHIA Bet. Market and Chestnut Streets Choicest Stock Always on Hand Telephone 1-42-26-A.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Boston Feb. 16, 1906, Philadelphia Feb. 13, 1906, Baltimore Feb. 15, 1905, Buffalo Feb. 15, 1905, and Pittsburg Feb. 6, 1905. Rows include various flower types like A. Beauty, Roses, Carnations, and others.

BOSTON, MASS.

Asparagus Plumosus Mignonette Chrysanthemums Lily Narcissus Brides, 'Mails American Beauties

WELCH BROS.

PROPRIETORS CITY HALL CUT FLOWER MARKET 15 PROVINCE ST.—9 CHAPMAN PL.

Kaiserlins Violets Carnots Orchids Valley Carnations

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6287 and 6288 Mention the Florists' Exchange when writing.

BERGER BROS. WHOLESALE FLORISTS

Bell and Keystone 'Phone 1220 Filbert Street, PHILADELPHIA Mention the Florists' Exchange when writing.

Philadelphia.

News Notes.

Pursuant to an amendment to its by-laws, passed at the December meeting, the Pennsylvania Horticultural Society will hold its next monthly meeting on Tuesday next, in the afternoon, instead of the evening.

Horace S. Dumont has withdrawn from the Philadelphia Carnation Co. The business will be continued by Harry Crawford, the other member of the firm.

Edward Stroud will give up his retail establishment at Overbrook, devoting all his attention to the carnation plant at Strafford.

Edwin Lonsdale is still under the doctor's care, but expects to be around the end of this week.

Pennock Bros. did a large business on St. Valentine's Day; they had special heart-shaped baskets and boxes made up, which sold well.

J. J. Hahermehl's Sons had the decoration for the Harrison ball at Horticultural Hall on Friday last. It was very elaborate. The windows were draped with strings of smilax, Bigonia venusta flowers, etc.

My friend "Phil" feels somewhat badly to think Job accuses him of making up those questions which are published in the Review; and to prove that the questions are genuine he called upon me the other day and handed to me some of the letters containing the questions submitted, asking me to square him with Job.

LOS ANGELES, CAL.—Mrs. M. A. Patten has sported pink at Joseph Wolfskill's place, Grace Hill Nurseries, Los Angeles, Cal. A stock is being worked up, as it is a favorite here.

DUMONT & CO.

Wholesale Florists Carnations a Specialty No. 1305 Filbert St., Philadelphia Bell and Keystone 'Phone. Mention the Florists' Exchange when writing.

J. B. MURDOCH & CO.

Wholesale Florists FLORISTS' SUPPLIES 545 Liberty St., PITTSBURG, PA. Long Distance 'Phone, 1435 Court. Mention the Florists' Exchange when writing.

WM. J. MOORE

Wholesale Florist 1235-37 FILBERT STREET PHILADELPHIA, PA. Bell and Keystone 'Phone. Consignment of CARNATIONS and ASPARAGUS, Solicited. Mention the Florists' Exchange when writing.

Worcester Conservatories

Wholesale Growers of CUT FLOWERS Prompt attention given all orders. WORCESTER, MASS. Mention the Florists' Exchange when writing.

Headquarters in Western New York For ROSES, CARNATIONS And all kinds of Seasonable Flowers.



WM. F. KASTING Wholesale Commission Florist ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS 383-87 Ellicott St. BUFFALO, N. Y. GIVE US A TRIAL WE CAN PLEASE YOU

Mention the Florists' Exchange when writing.

CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses, Valley

11 South 16th Street, PHILADELPHIA Mention the Florists' Exchange when writing.

Boston.

News Notes.

Peter Murray, who has had charge of the greenhouses and grounds of W. P. Winsor at Fairhaven for nearly fifteen years, and is one of the best gardeners and orchid growers in this vicinity, has leased the greenhouses from Mr. Winsor and will start as a general grower, commercially, for the home trade, for which there is a good opening where he is located. Mr. Murray has our best wishes for a successful business career. He has been a successful exhibitor for the last decade at many of the Boston shows, and like all other successful gardeners has ever been alert to the raising of novelties, his latest achievement being the new seedling carnation Winsor, which received a first-class certificate of merit on Saturday from the Massachusetts Horticultural Society, and of which he has sold the entire stock to the F. R. Pierson Company, Tarrytown, N. Y.

A young man in the employment of Welch Bros. has been fleecing his employers of flowers and florists' supplies and disposing of them to street fakirs. In court Tuesday morning he was placed on probation.

Morse & Gompers is the name of a new firm that has opened a flower store on Tremont street, near to Keith's Theater.

The G. A. Sutherland Company has added a wire-working department, and is now prepared to fill orders with a full line of cut flowers and florists' supplies of all kinds.

Wm. Nisbet & Co. have given up their location at 54 Pemberton square.

At a dinner given by members of the Ancient and Honorable Artillery Company to some visiting British friends at the Parker House recently, the Wellesley rose was used entirely for decoration.

Morris Hambroe and George Solomon have opened a flower stand in Houghton & Dutton's.

F. R. Pierson refused to accept a shipment of carnation blooms which were intended for exhibition on Saturday at Horticultural Hall, on the ground that they had been delayed by the express company, and were too late for the exhibition. The express company turned the goods over to a local commission house which realized good prices for them.

Walter Holden, seedsman for L. E. Small, of Tewksbury, in the Music Hall Market, has been confined to his home for several days.

J. A. Pettigrew is on the sick list, suffering from a severe cold, threatening pneumonia.

The executive committee of the American Rose Society held a meeting in Boston Tuesday, making arrangements for the coming exhibition in March.

Alex. J. Gutman, New York, and F. R. Pierson and James T. Scott, Tarrytown, were visitors at the show of the Massachusetts Horticultural Society on Saturday last. J. W. DUNCAN.

National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 666 John. HARRIS H. HAYDEN (Late Manager of the Nepera Chemical Company), President EDWARD MCK. WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer

56 PINE ST., Wallace Bldg., N. Y. CITY (Boone 611-612)

Mention the Florists' Exchange when writing.

USE KRICK'S FLORISTS' Immortelle Letters, Inscriptions, &c.

Highest Awards Wherever Exhibited



These Letters and Designs are made of the best Immortelles, wired on wooden frames, having holes drilled in them to insert tooth-picks by which they are fastened in the design. Give them a trial. You will find these Letters to be superior to any in the market.

1 1/2-inch Letters and Figures, per 100, \$2.60 2-inch Letters and Figures, per 100, " 2.50 2 1/2-inch Letters, per 100, " 3.00 Add 10c. per 100 on 2 and 2 1/2-in. Letters if by mail.

W. C. KRICK, 1164-68, Brooklyn, N. Y. Mention the Florists' Exchange when writing.

Cincinnati.

The Week's News.

The weather forces us once more to make remarks. This Monday morning the air is clear as a bell; the wind is blowing moderately and the thermometer registered 4 degrees below at 5 a. m., and at 10 a. m. only 2 above. The Ohio River has been frozen over for nearly a week. On Friday and Saturday the temperature was much warmer, and the ice commenced breaking up with much loss to the craft in the harbor, but to-day all is again frozen; thousands and thousands of dollars' worth of barges, loaded with coal, have gone to the bottom and many steamers have been crushed.

Many of the craft in this section are sick with bad colds and la grippe, but so far no fatalities have occurred. E. G. GILLETT.

Columbus, O.

The Fifth Avenue Floral Co. recently incorporated here, with a capital stock of \$20,000, is a continuation of the partnership carried on under the same name by Messrs. Seibert & Woodrow. They have been very successful, especially in supplying the downtown stores with roses, carnations, etc., and have found their business growing so as to crowd them for room. The wholesale department, which has been conducted from Seventh avenue, will be removed to the suburbs, when new and larger greenhouses will be built and many improvements made. The officers of the new organization are: C. K. Seibert, president; I. D. Seibert, general manager; G. H. Woodrow, secretary. B.

YOUNGSTOWN, O.—Walker & McLean have enlarged their store and are preparing for a big seed trade this Spring. J. T. C.

Catalog Engravings and ILLUSTRATIONS

that print EASILY. That's the kind we make—have been since '73.

JAS. M. BRYANT, Engraving and Printing 706 Chestnut Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always.

Table with columns for Size No., Dimensions, Price per 100, and Price per 1000. Includes sizes like 3x4x20, 1x3x16, etc.

Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.

THE LIVINGSTON SEED CO., Box 104, Columbus, O.

Mention the Florists' Exchange when writing.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A." Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION Mention the Florists' Exchange when writing.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

E. C. AMLING

The Largest, Best Equipped, Most Centrally Located Wholesale Cut-Flower House In Chicago

32, 34, 36 Randolph St., CHICAGO, ILL.

J. B. DEAMUD

Successor to Illinois Cut Flower Co. Wholesale Cut Flowers Consignments Solicited.

51 and 53 Wabash Avenue, CHICAGO

CHARLES W. McKELLAR

Wholesale Commission Florist And Dealer In all Florists' Supplies

51 WABASH AVENUE, CHICAGO

Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Large table with columns for Name and Varieties, Chicago, St. Louis, Cincinnati, Milwaukee, and Toronto. Lists various flower types like Beauty, Extra, Queen of Edgely, etc.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY W. J. COWEE, Berlin, N. Y.

Samples free. For sale by dealers. Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS.

Mention the Florists' Exchange when writing.

SINNER BROS.

Wholesale Growers and Shippers of CUT FLOWERS

58-60 Wabash Ave., Chicago, Ill. With the Flower Growers' Co. Telephone, CENTRAL 8667.

All telephons and telegraph orders given prompt attention. Mention the Florists' Exchange when writing.

VAUGHAN & SPERRY

58-60 Wabash Ave., CHICAGO

WHOLESALE FLORISTS Florists' Supplies

All Cut Flowers at Ruling Market Prices Mention the Florists' Exchange when writing.

HOLTON & HUNKEL CO.

Wholesale Florists Florists' Supplies

Manufacturers of Wire designs.

457 Milwaukee Street, MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103.

Mention the Florists' Exchange when writing.

H. G. BERNING

Wholesale Florist

1402 Pine Street, ST. LOUIS, MO.

Mention the Florists' Exchange when writing.

HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

Mention the Florists' Exchange when writing.

Special facilities for handling large orders. Write, Wire or 'Phone
E. A. BEAVEN, Evergreen, Alabama

GLASS

For GREENHOUSES, GRAPERIES, HOTBEDS CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.

N. COWEN'S SON, 392-94 W. Broadway, NEW YORK
Mention the Florists' Exchange when writing.

Sphagnum Moss and Cedar Poles
Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.
H. R. AKERS, CHATSWORTH, N. J.
Mention the Florists' Exchange when writing.

UNRIVALED COLLECTION OF

SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$6.00; 25-lb. case, \$3.25.

GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.

Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. each, \$2.50.

All kinds of Florists' Supplies.

L. J. Kreshover, 112 West 27th Street, New York
Tel. 697 Madison Sq.

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EIGHT MILLION Hardy Cut Ferns

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\$1.25 per 1000. GALAX, brilliant bronze or green, 75c. per 1000, \$6.50 per case of 10,000. Laurel Festooning, hand-made, full sizes, 4c., 5c. and 6c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

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THE WHILLDIN POTTERY COMPANY
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\$1.50 per 1000.
WILD SMILAX, \$4.00 and \$7.00 per case.
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Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelles, Cyca Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.
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In Bags, \$18.00 per Ton
Special price on car load lots in bulk

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Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 in. pots in crate,	\$4.88	120 7 in. pots in crate,	\$4.20
1500 2 1/2 " " " "	5.25	80 8 " " " "	3.00
1500 2 3/4 " " " "	6.00	HAND MADE.	
1000 3 " " " "	5.00	48 9 in. pots in crate,	\$3.60
800 3 1/2 " " " "	5.50	24 11 " " " "	4.80
500 4 " " " "	4.50	24 11 " " " "	4.80
320 5 " " " "	4.51	12 14 " " " "	4.80
144 6 " " " "	3.16	6 16 " " " "	4.50

Seed pans, same price as pots. Send for price list of cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

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TOBACCO-PAPER INSECTICIDE BY FAR THE BEST.



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SHEETS ARE READY FOR USE
NO FOLDING IS REQUIRED JUST HANG EACH SHEET FROM THE HOLE PUNCHED IN ONE END. THEN LIGHT LOWER END. BLOW OUT FLAME AND LET THE SHEET BURN
NO LIGHTING (SHEET HUNG FROM GLASS STEPS)
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FOR SALE BY SEEDSMEN
24 Sheets, 75c.; 144 Sheets, \$3.50;
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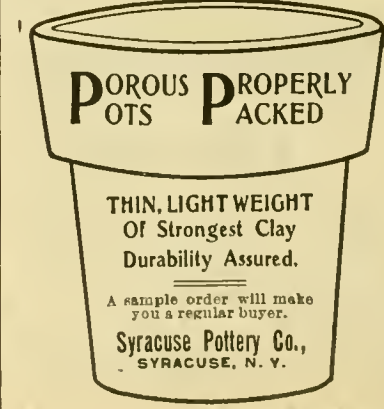
Mfg. by Kentucky Tobacco Product Co. LOUISVILLE, KY.

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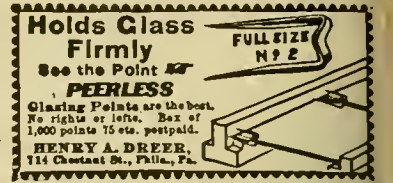
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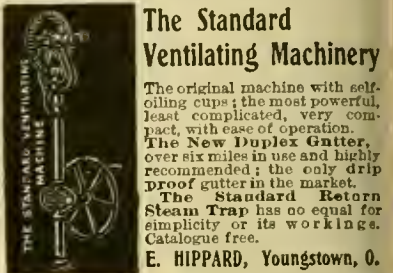
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A sample order will make you a regular buyer.
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Window Glass. Painters' Supplies.
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Our Steel Towers




Are of such Material,
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The Tanks they support
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One cent gets our Catalogue
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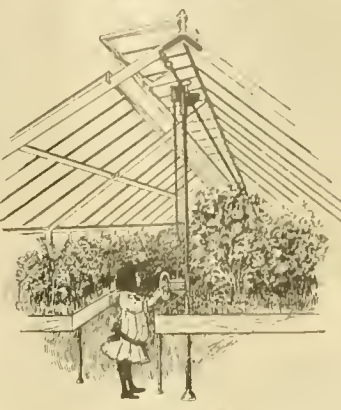
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Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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In Greenhouses and other Buildings.
By means of OIL-CUPS IT RUNS SMOOTHLY.

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Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make sewer Pipe, Red and Fire Brick, Chimney Tops, Eucoustic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.


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Iron Cutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Cutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.



A sample of this gutter is on exhibit at the Chicago Flower Growers' Market.

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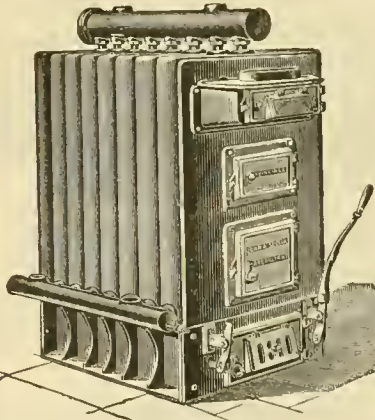
FOR HOT WATER AND STEAM.
Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

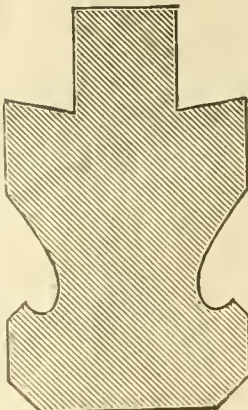
Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.
Horticultural building of every description.

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72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.
Established 42 Years



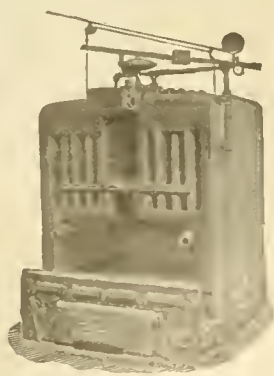
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Cut and Spliced
Ready for Erection

Hot Bed Sash

Pipe, Fittings,
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GREENHOUSE GLASS
We furnish everything for Building
Heating Installed
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1365 to 1373 Flushing Ave., Brooklyn, N. Y.
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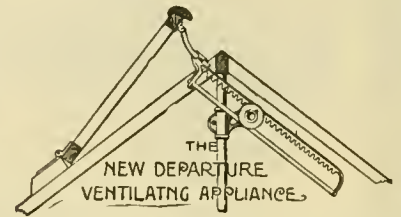
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 New Roof Construction, Automatic
 Stokers, Water Tube Steam Boilers,
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CYPRESS
 IS FAR MORE DURABLE THAN PINE
CYPRESS
SASH BARS
 UP TO 32 FEET OR LONGER.
GREENHOUSE
 AND OTHER BUILDING MATERIAL;
 MEN FURNISHED TO SUPERINTEND
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 Send for our Circulars.
THE A. T. STEARNS LUMBER CO.
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ASPARAGUS DECUMBENS, 3 in. pots, 75c per doz., \$5.00 per 100.
ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100; \$15.00 per 1000; 500 at 1000 rate.
ASPARAGUS SPRENGERI, strong, 3 in., 75c per doz.; \$5.00 per 100.
CARNATIONS. Rooted cuttings. Write for prices and varieties.
CLEMATIS PANICULATA, 4 in., \$1.50 per doz.; \$10.00 per 100.
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COSTS LESS and does better work. Send for Descriptive Price List
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 Importers and Manufacturers of
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 Immortelles, Ruscus Wreaths and Baskets for Plants
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 The above figures represent commercial heating contracts already signed for the season of 1906.
 An opportunity to estimate on your proposed heating work will be to your interest.
 Select any good make of boiler you prefer and I will have my estimate accordingly.
Everything for Heating.
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 Send for catalogue Get the best
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DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.
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Green Fly

Thrips

Mr. J. A. Budtong, Chicago, March 11, 1904, says:
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For Hot Water or Steam
 HOT WATER Radiation from 4,200 Square Feet and Up.
 STEAM Radiation from 2,500 Square Feet and Up.
 Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.
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 Galvanized Steel Patent U Bar Greenhouses
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 First-class Low-priced Cypress Greenhouses
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 PIPE, FITTINGS and VALVES for Greenhouse Heating
 VENTILATING APPARATUS, Self-Locking, Self-Oiling
 Hot Bed Sash, Benches, Special Hand-made Putty
THE PIERSON-SEFTON CO., West Side Ave. South, JERSEY CITY, N. J.
 Plans and Estimates Furnished for Complete Structures or Material only
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THE JENNINGS IMPROVED IRON GUTTER
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 That is from the **FOLEY MANUFACTURING CO.**
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 We also make Hot-bed sash.
 Illustrated catalogue sent free!

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

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

Vol. XIX. No. 8

NEW YORK, FEBRUARY 25, 1905

One Dollar Per Year

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WE OFFER FIRST-CLASS STOCK OF THE FINEST VARIETIES

VARIEGATED LAWSON This variety which we are introducing this season we are sure will prove to be the very best variegated sort. Pure ivory white, with delicate carmine pencilings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, says that he knows that this variety will out-bloom the favorite Mrs. M. A. Patten three to one. It has the Lawson habit and stem, and is bound to give satisfaction. \$12.00 per 100; \$100.00 per 1000.

RED LAWSON A bright red sport of Lawson that is bound to be popular, and will be grown where Lawson is popular. \$10.00 per 100; \$75.00 per 1000.

CARDINAL Bright cardinal, or crimson-scarlet. Won first prize for best 100 scarlet, first prize for best 50 carnations, any color, first prize for best 50 scarlet seedlings, Chicago. \$12.00 per 100; \$100.00 per 1000.

FIANCEE The Queen of pink carnations; in a class by itself. Magnificent flowers, strictly fancy in every respect. \$12.00 per 100; \$100.00 per 1000.

FRED. BURKI Recommended as an extra free-blooming white variety and a claimant for popular favor. \$12.00 per 100; \$100.00 per 1000.

WHITE LAWSON We consider this variety, which we introduced last season, the most profitable white carnation ever sent out. We think it will outbloom any other white two to one. It has given great satisfaction. When the flowers are left on the plants until fully developed they are much larger than Mrs. Thos. W. Lawson. We believe this will occupy among white carnations the same place that Mrs. Thos. W. Lawson does among pink carnations. Remember that we are headquarters for it. Splendid stock, ready for immediate delivery. \$7.00 per 100; \$60.00 per 1000.

LADY BOUNTIFUL A magnificent white of last season's introduction. \$6.00 per 100; \$50.00 per 1000.

DAHEIM Dark crimson; grand stiff stem; Calyx never bursts. Free and abundant bloomer, developing very quickly. We consider this the best all-round crimson carnation. \$6.00 per 100; \$50.00 per 1000.

MRS. M. A. PATTEN This grand variegated carnation has given splendid satisfaction. \$6.00 per 100; \$50.00 per 1000.

ENCHANTRESS Freest blooming, bringing highest market prices in great demand. \$4.00 per 100; \$30.00 per 1000.

MRS. THOS. W. LAWSON \$3.00 per 100; \$20.00 per 1000.

PROSPERITY A magnificent fancy carnation. \$3.00 per 100; \$20.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.
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We are now prepared to book orders for 1906 for

THE COMING SCARLET CARNATION

VICTORY

This is a real bread-and-butter variety. An early, free, and abundant bloomer, with good stem; a magnificent keeper and shipper; flowers of the largest size, commanding the very highest price. This is going to be a money-maker.

Orders will be filled in rotation, as received. Delivery beginning December next.

\$12.00 per 100; \$100.00 per 1000.

GRAFTED ROSE STOCK

Now is the Time to Order for Summer Flowering

KAISERIN AND CARNOT } 2 1/4-inch pots,
\$15.00 per 100
\$120.00 per 1000

Own Root Stock

KAISERIN, CARNOT, BRIDE AND 'MAID } 2 1/4-inch pots,
\$4.00 per 100
\$35.00 per 1000

I have splendid plants of AMERICAN BEAUTY, clean and free from spot, \$6.00 per 100, \$50.00 per 1000.
All my Rose plants are in the best condition and free from mildew. Will be pleased to send sample on application.

W. H. ELLIOTT, Brighton, Mass.
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BULBS For Spring Planting and Summer Flowering

BUY FROM HEADQUARTERS

	Per 100	1000		Per 100	1000
GLADIOLUS—Selected Bulbs.					
American Hybrids, mixed.....	\$1 00	\$8 50	DAHLIAS. Large Field Clumps Named kinds. Separate. Our selection. Ask for list of named sorts.	\$5 50	\$50 00
Very fine mixed.....	90	7 50			
Second size mixed.....	65	6 00			
White and Light, best to be had.....	1 50	13 50	Cactus, Show, Fancy and Pompon	3 00	26 00
GLADIOLUS—Florists' Forcing Sorts.					
Angusta, 1st size.....	3 00	25 00	Double Mixed, all colors	3 00	26 00
" pure white, selected.....	4 00	30 00	TUBEROSES.		
May, Daybreak color.....	1 50	12 00	Excelsior Double Pearl, Doz.		
Shakespeare, white and rose.....	4 50	40 00	Mammoth bulbs, 6 to 8 in.....	\$0 30	2 00 15 00
BEGONIAS—Tuberous-rooted.					
Single, bulbs 1 1/2 in. and up, separate colors, white, red, pink, yellow and orange.....	2 00	18 50	4 to 6 in. around.....	20	1 00 7 50
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Separate colors, or mixed.....	3 50	30 00	LILIUM.		
CALADIUMS—(Elephant's Ear).					
Bulbs, 6 to 8 in. in circumference.....	1 50	12 50	Auratum, 6 to 9 in.....	75	4 25 88 00
" 8 " 10 " ".....	3 00	25 00	" 9 to 11 in.....	1 25	7 50 67 00
" 10 " 12 " ".....	5 00	45 00	Speciosum Rubrum,		
" 12 in. and over, \$1.50 per doz.....	10 00	100 00	8 to 9 in.....	1 00	6 00 60 00
Fancy-Leaved, named sorts,			9 to 11 in.....	1 60	7 50 70 00
large bulbs, \$1.25 per doz.....	7 50	60 00	Speciosum Album,		
Mixed sorts, large bulbs, 80c. per doz.....	6 00	55 00	8 to 9 in.....	1 25	7 00 60 00
Mixed sorts, large bulbs, 80c. per doz.....	6 00	55 00	9 to 11 in.....	2 00	12 00
GLOXINIAS—Choice Stock.					
Named varieties, very large bulbs; separate colors: white, purple, red, blue, spotted and tigered, or all colors mixed, 50c. per doz.....	3 50	30 00	MONTHLETIAS,		
Named sorts.....					
Large roots.....					
CINNAMON VINES.					
Largest size tubers.....	2 50	20 00	Named sorts.....		
First.....	2 00	15 00	OXALIS, in variety.....		
			TIGRIDIAS, mixed.....		
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			ISMENE GRANDIFL'A.....		
			MADEIRA VINES.		
			Large roots.....		
			IRIS, Japan or Kamperli.		
			Grown from originally imported stock, 1/2 single, 1/2 double, named sorts.....		
			Mixed sorts, 1.00.....		
			GERMAN IRIS, named.....		
			Mixed.....		

CANNAS Large dormant pieces, with two to three eyes. For varieties and prices see our ad. elsewhere in this paper.

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Corner Jane Street. Telephone, 1063 Chelsea.
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS
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The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

ROOTED CUTTINGS			TWO-INCH POTS		
ETHEL WARD.....	\$7.00	per 100	PROSPERITY.....	\$2.00	per 100
THE PRESIDENT.....	\$6.00	per 1000	ENCHANTRESS.....	\$4.00	per 100
WHITE LAWSON.....	\$4.00	per 100	GOLDEN EAGLE.....	\$5.00	per 100
ENCHANTRESS.....	\$4.00	per 100	OCTOROON.....	\$5.00	per 100
CHRISTMAS EVE.....	\$3.00	per 1000	WHITE LAWSON.....	\$6.00	per 100
GOLDEN EAGLE.....	\$5.00	per 100	ETHEL WARD.....	\$7.00	per 100
LAWSON.....	\$3.00	per 100	CARDINAL.....	\$12.00	per 100
PROSPERITY.....	\$2.00	per 100		\$100.00	per 1000
MACKINAS.....	\$15.00	per 1000	50 of a kind at 100 rate; 250 of a kind at 1000 rate		
JUDGE HINSDALE.....	\$6.00	per 100			
MRS. PATTEN.....	\$50.00	per 1000			
NELSON FISHER.....					
OCTOROON.....					
FLAMINGO.....					

COTTAGE GARDENS COMPANY (INC.), Queens, N. Y.
C. W. WARD, Manager



**EMBRACE THIS OPPORTUNITY
SWEET PEAS**

Mont Blanc	per lb.,	45 cts.
Blanche Ferry, extra early	"	30 "
Countess of Radnor	"	30 "
Salopian	"	30 "

ASTERS, all standard varieties, per trade pkt., 25 cts.
 SMILAX per oz., 35 cts.
 SALVIA Splendens Bonfire, per trade pkt., 25 cts.
 MUSA ENSETE (just received), per 100 seeds, 90 cts.
 DRACENA INDIVISA per oz., 30 cts.
 LILY OF THE VALLEY PIPS, per case of 2500, \$24.00

LILY OF THE VALLEY CLUMPS	per 100,	8.00
STRAW MATS, 6x6	\$1.60 each; per doz.,	18.00
BURLAP MATS, 76x76	\$1.35 each; per doz.,	15.00
SHEEP MANURE	100 lbs., \$1.25; per ton,	20.00
PERUVIAN GUANO, freshly imported	100 lbs.,	2.25
BAMBOO CANES, 4 to 8 feet		6.00

WM. ELLIOTT & SONS, NEW YORK

Mention the Florists' Exchange when writing.

**AT ST. LOUIS A GRAND PRIZE WAS
AWARDED ON VEGETABLES,
THE PRODUCTS OF BURPEE'S SEEDS!**

If you garden you want THE BEST,—and we shall be pleased to mail you BURPEE'S FARM ANNUAL FOR 1905, an elegant new book of 178 pages, which tells the plain truth, with hundreds of illustrations, beautiful colored plates, and describes superb Novelties of unusual merit.

If you garden for profit or are a florist you should also have Burpee's "Blue List" or Wholesale Price-List for Market Gardeners and Florists.

Write TO-DAY! A postal card will do, while it is sufficient to address simply **BURPEE, PHILADELPHIA**

W. ATLEE BURPEE & CO., The World's Largest Mail Order Seed Trade

Mention the Florists' Exchange when writing.

**GOLD MEDAL STRAIN
BEGONIAS TUBEROUS
ROOTED**

	Per doz.	100		Per doz.	100
Single White	\$0.35	\$2.25	Double White	\$0.65	\$5.00
" Yellow	.35	2.25	" Yellow	.65	5.00
" Nankeen	.35	2.25	" Orange	.65	5.00
" Pink	.35	2.25	" Rose	.65	5.00
" Rose	.35	2.25	" Dark Rose	.65	5.00
" Red	.35	2.25	" Dark Red	.65	5.00
" Dark Red	.35	2.25	" Red	.65	5.00
" Salmon	.35	2.25	" Salmon	.65	5.00
" Orange	.35	2.25	" Mixed	.50	4.00
" Mixed	.30	2.00			

STUMPP & WALTER CO., 50 Barclay St., New York

Branch Store 404 East 34th St., N. Y.

Mention the Florists' Exchange when writing.

We Wish to Announce

*to the trade that we are
the successors of*

W. P. Peacock, Dahlia Specialist

*Send for our beautifully illustrated de-
scriptive catalogue for 1905, now ready*

L. K. PEACOCK, Incorporated
Atco, New Jersey

Mention the Florists' Exchange when writing.

BERMUDA HARRISII BULBS

**THE
"SEMPER IDEM"
BRAND**

I AM NOW BOOKING ORDERS FOR
JULY AND AUGUST DELIVERY
PRICES ON APPLICATION

**CHAS. A. V. FRITH
HAMILTON, BERMUDA**

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*Thorburn's
Seeds*

**LILY OF THE VALLEY
PIPS**

LARGEST AND FINEST STOCK
IN SPLENDID CONDITION
Per case of 3000 for - - - - \$24.00
Two or more cases at \$7.50 per 1000

J. M. THORBURN & CO.
36 Cortlandt St. New York
Mention the Florists' Exchange when writing.

**QUALITY SEED
BULBS
PLANTS**

SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
342 West 14th St., New York,

Mention the Florists' Exchange when writing.

**EXTRA
CHOICE Flower Seeds**

List free on application.
FRED. ROEMER, Seed Grower
QUEDLINBURG, GERMANY.
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DAHLIAS



Mrs. Winters, the World's best white, strong tubers, \$10.00 per 100. Ingeborg Egeband, best scarlet cactus, \$3.00 per doz., \$20.00 per 100. Many other novelties and standard varieties. Wilmore's Dahlias have long been celebrated for prize winning. Also Double Field-grown HOLLY-HOCKS, true to color, \$3.00 per 100. Send for catalogue.

W. W. WILMORE
Dahlia Specialist, Box 382, DENVER, COL.
Mention the Florists' Exchange when writing.

**Summer Flowering
BULBS**

Imene Grandiflora	100	1000
Madela Vines	\$6.00	\$50.00
Spotted Callas	1.00	3.00
Tritoma Pfitzeri	3.00	25.00
Gladlii, mixed, 1 1/4 in. diam.	7.00	50.00
	.60	5.00

HEADQUARTERS FOR LILIES,
APIOS, CALADIUMS, ETC.
Eight per cent. discount for cash.
Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.
Mention the Florists' Exchange when writing.

SOW NOW

Rawson's Flower Market Stock
INCOMPARABLE IN QUALITY
White, 1/2 oz. 75c., oz. \$5.00
Any other col., 1/2 oz. 80c., oz. \$4.00
W. W. RAWSON & CO.
Seedsmen,
12 Faneuil Hall Square,
BOSTON, MASS.
Mention the Florists' Exchange when writing.

CRIMSON RAMBLER

16950—No. 1, own roots..... \$12.00 per 100
24825—No. 2, " " " " " " " " 8.00 "
Northern-grown, for delivery December 20.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J
Mention the Florists' Exchange when writing.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.
Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE GRAND PRIZE
For My Exhibition of GLADIOLI AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable. Write for Catalogue. ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York
Mention the Florists' Exchange when writing.

LOUISIANA
The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an unintroduced seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.
WEST GROVE, PA.
Mention the Florists' Exchange when writing.

DREER'S Reliable Flower Seeds

SWEET PEAS FOR FLORISTS

We offer below a short list of the best sorts to grow for cutting.

(For full list see Wholesale Catalogue.)

Table listing various sweet pea varieties such as Blanche Ferry, Countess Cadogan, and others with their respective prices.



See our WHOLESALE PRICE LIST For Complete List of FLORISTS' FLOWER SEEDS including Anemone, Petunias, Pansees, Verbenas, Salviae, etc.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.
Mention the Florists' Exchange when writing.

W. & T. SMITH COMPANY
Geneva, N. Y.

Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vines Fruit Trees and Small Fruits.
WHOLESALE PRICE LIST SENT ON REQUEST
Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

PRESIDENT PAGE, of the American Seed Trade Association, contributes to the Des Moines (Ia.) Daily News, an interesting article on the seed business in America.

HENRY A. DREER, Inc., Philadelphia, Pa., are distributing useful "Hints and Suggestions for the Gardener," in which they tell what is worth growing, at the same time describing the subjects recommended.

NARCISSUS

We have a long list of well-pleased customers. Let us quote you prices on our Guernsey-grown bulbs. TUBEROUS BEGONIAS For bedding. Write for prices.

HUBERT & CO.

N. LE PAGE, Rep., Mt. Vernon, N. Y.
Mention the Florists' Exchange when writing.

THE HARDY ANNUAL OF THE CENTURY

Nicotiana Sanderae

Seeds in original packets at 25c. each.

Wholesale Agents for the United States: H. A. DREER, Philadelphia, Pa.; J. M. THORBURN & Co., Corlandt St., New York; VAUGHAN'S SEED STORE, Chicago and New York.
Mention the Florists' Exchange when writing.

GROFF'S HYBRID GLADIOLI

First-Class Corms.....\$2.00 per 100
Second Size..... 1.50
Small (blooming) one inch and under......75 "
Cash with order, please.

W. F. MASSEY, Raleigh, N. C.
Mention the Florists' Exchange when writing.

WARD'S HIGH GRADE Bulbs & Plants
RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS

ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

SEATTLE, WASH.—W. J. Good has purchased a tract of land near the southern part of this city, where he intends to install a bulb farm.

NEWPORT, R. I.—William B. Scott & Company report the past week as the best of the season thus far as regards orders for seeds; onion sets and seed potatoes are also moving well. F. W.

LITTLE ROCK, ARK.—Leifer Bros. Co. was incorporated February 1 to succeed the firm of John Leifer & Co., wholesale and retail dealers in seeds and farm implements. The officers are George, John and Charles Leifer.

INDIANAPOLIS, IND.—It is reported that J. A. Everitt, seedsman, has recently secured an option on a large tract of choice land on the Gulf of Mexico, which will be operated as an experimental station and model farming community.—Agricultural Advertising.

SEED PACKING.—Writing on this subject to The Gardeners' Chronicle, W. Watson, of Kew, says: "I can strongly recommend damp cocoanut fibre and wooden boxes for all seeds that perish easily and can be conveniently packed in them. For seeds generally, I know of nothing better than paper packets and calico bags, and the more moisture there is in the seeds themselves when thus packed the better. Hermetically sealed tins, or bottles, should never be used."

IN HOLLAND.—A writer in the Horticultural Trade Journal, England, February 8, remarks as follows: "Seedsmen are now at their busiest in filling the rapidly coming in of the orders for early Spring sowing, and up to the present the run has been quite up to the average, but indications are there already that many sorts of beans will be short for the demand. In the bulb lines for Spring planting, the demand is quite as brisk as last year, and gladiolus of any kind will clear out completely, notwithstanding the very good crop that has been harvested."

On February 9, arguments were heard by Justice Anderson, of the District Supreme Court, Washington, D. C., in the case of the Brown Bag Filling Machine Company against James L. Drohen on a motion for a preliminary injunction. Drohen has the contract for the Congressional seed distribution for the present year, and the complainant alleges that in assembling the seed in packages for distribution Drohen is using an apparatus which infringes a patent belonging to the complainant. In his answer, and in a number of affidavits filed by Drohen, he denied the validity of the complainant's patent, and denied also that the apparatus used by him was an infringement. If any injunction is granted at this time it was pointed out, such injunction would delay the present year's distribution of seeds by the Government. The case was taken under consideration by the Court, and will be decided later.

European Notes.

The ravages of the Winter are being manifested by the mild weather at present prevailing in Europe, and from all sides come reports of failures of many of our most valuable round seed crops. This is more particularly the case with those produced from stock seed grown in warm climates. Full details are not yet to hand, but already we know that early broccolis, cabbages and savoys have gone under by wholesale. Biennial flower seeds, such as Winter stocks and wall flowers, have followed suit; forget-me-nots and

CANNAS

Dormant Roots } Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italia, Austria, Queen Charlotte, Paul Marquet, Flamingo, Shenandoah } \$15.00 per 1000; \$2.00 per 100.
Large Pieces, 2 } (dark foliage), Fair Persian, Morning Star, Ft. Washington } Mixed All Colors
3 and More Eyes } \$10.00 per 1000; \$1.50 per 100.

CLUCAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK
Mention the Florists' Exchange when writing.

DREER'S ROYAL EXHIBITION PANSIES

We offer a fine lot of September-sown seedlings, which were transplanted in cold frames during October, and while not extra large they are sturdy, stocky plants, which will respond quickly in Spring and give better returns than larger but softer greenhouse-grown plants.

Price, 75 cents per 100; \$5.00 per 1000.
SEED of above, 50 cts. per trade pkt.; \$1.25 per 1/4 oz.; \$3.00 per oz.

Myosotis Palustris Semperflorens (THE EVER-BLOOMING FORGET-ME-NOT)

A good lot of cold frame-grown plants suitable for potting into four-inch pots, which, if brought into a cool greenhouse, will furnish readily saleable plants for retailing, or will produce quickly a profitable crop of flowers for cutting.

50 cents per dozen; \$3.00 per 100.
SEED of above, 30 cts. per trade pkt.; \$1.50 per oz.

Primula Cortusoides Sieboldi.

These beautiful rich-colored Primroses are almost unknown to the American trade. They are used extensively as pot plants in many European cities where they meet with ready sale, and we believe that they will meet with even greater favor here when once they become known.

We offer good strong germs, which, if potted up and placed in a carterion house temperature, will be in full bloom in about five weeks' time. All are very large-flowered and of bright, pleasing colors. We recommend them for trial, feeling certain that you will be pleased with the result.

ALBA MAGNIFICA. Large, pure white fringed.
ARTHUR. Beautiful salmon-rose.
MAIDEN'S BLUSH. Soft, delicate pink, finely fringed.
SIRIUS. Rich crimson-rose, with white eye.
Price, \$1.25 per dozen; \$10.00 per 100.



PRINCESS OF WALES VIOLETS

Thrifty, Fall Struck Cuttings, Heavily Established in Flats. \$2.50 per 100. Rooted Cuttings from Sand, \$1.25 per 100.

Our 1905 Wholesale Catalogue of Chrysanthemums and other Tender and Hardy Plants has been mailed. It contains many bargains. If not received, drop us a postal.

NATHAN SMITH & SON, - Adrian, Mich.
Mention the Florists' Exchange when writing.

PANSIES THE JENNINGS STRAIN.

Fine stock, choice colors. Large plants, in bud and bloom, \$1.00 per 100. Smaller sizes, from cold frames, \$3.50 per 1,000; by express. Small plants, Verbena, Mammoth, R. G., 50c. per 100, \$5.00 per 1,000; Stocks, Double White for Easter, \$1.00 per 100, \$8.00 per 1,000; Daisies, Double White, 75c. per 100, \$5.00 per 1,000; Feverfew, Double White, \$1.00 per 100, \$8.00 per 1,000; Sulvia, Splendana, \$1.00 per 100; Lobelia, Dwarf Blue, \$1.00 per 100; Ageratium, Dwarf Blue, 80c. per 100; Asparagus, Plumose, from flats, ready for 3 inch pots, \$1.00 per 100; 8 inch, ready for 4 inch, \$3.00 per 100.

E. B. JENNINGS, 264 Southport, Conn.
Gmwar of the Finest Pansies.

Mention the Florists' Exchange when writing.

PANSIES—200,000

Fine, large, transplanted plants, prize strain of the famous large-flowering Bugnota, Casaters, Odier and Trimardau. Stocky plants, from cold frame, 50c. per 100, by mail; \$3.00 per 1,000, by express. Verbena, Mammoth, R. G., 50c. per 100, \$5.00 per 1,000; Stocks, Double White for Easter, \$1.00 per 100, \$8.00 per 1,000; Daisies, Double White, 75c. per 100, \$5.00 per 1,000; Feverfew, Double White, \$1.00 per 100, \$8.00 per 1,000; Sulvia, Splendana, \$1.00 per 100; Lobelia, Dwarf Blue, \$1.00 per 100; Ageratium, Dwarf Blue, 80c. per 100; Asparagus, Plumose, from flats, ready for 3 inch pots, \$1.00 per 100; 8 inch, ready for 4 inch, \$3.00 per 100.

HILLTOP GREENHOUSES 15-16 Gray Ave, Utica, N.Y.
Mention the Florists' Exchange when writing.

PANSY PLANTS

	Per 100
Large-flowering	\$2.50 per 1000 \$0.60
Asparagus Plumoseus Nana, small plants.....	1.75
Geraniums, 10 Vars, 2 and 2 1/2 in. pot..	3.00
Alternantheras, red and yellow, March 1	2.00
Coleus, 10 Vars, 2 in. pots, March 1.....	2.00

JOS. H. CUNNINGHAM, Delaware, Ohio.
Mention the Florists' Exchange when writing.

PANSIES

A superb strain of our own raising. Large transplanted plants 50c. per 100 by mail; \$3.00 per 1000 by express.

C. WHITTON, City Street, Utica, N. Y.
Mention the Florists' Exchange when writing.

VIOLETS

Marie Louise, clean and healthy in every particular, \$5.00 per 100; \$45.00 per 1000. Cash with order.

W. J. CHINNICK, - Trenton, N. J.
Mention the Florists' Exchange when writing.

variety Alaska is, of the three, the most vigorous, producing also the largest pure white flowers; that Westralia is a fine branching variety, growing into an immense, spreading bush, covered the entire season with countless very large, creamy white blooms; and that California throws the largest flowers, but of a clear, pleasing lemon color, which, in the course of a few days, changes to a delicate creamy white.

It should be borne in mind that Shasta daisies are entirely hardy and may stay out in the open for several years, when they will grow to such a size that division and a resetting becomes necessary.

F. W. TIMME.
Wouldn't Miss One Issue.

Enclosed find check for one dollar for the renewal of my subscription. Trusting I am not too late, so as not to miss any of the issues.

Pa. NORMAN L. WILSON.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

sweet williams look very sickly, but may yet recover, assuming that our Winter is over.

The before mentioned mild weather has opened up business in fine style, and orders are tumbling in thick as leaves in Vallambrosa. Unfortunately, seedsmen are ill prepared for an exceptionally heavy demand, and "sold out" appears far too frequently for us to be happy. "Man never is, but always to be blest."

H. T. Huggins, managing director of Cooper, Taber & Co., London, has been in the grip of la grippe fiend for the past ten days, but is now nearly convalescent. An annual visitor to the States for nine consecutive years in the 70's and 80's of last century, Mr. Huggins was well known to the seedsmen, who made history in those very stirring times.

Referring to a recent announcement in this column respecting J. Wrench & Sons, Limited, a petition for winding

up the company was filed in the High Court of Justice, London, on January 31. Dippe Brothers, of Quedlinburg, Germany, and W. H. Filmer, of Sittingbourne, England, are the petitioning creditors. EUROPEAN SEEDS.

Shasta Daisies.

Somewhat over a year ago, in The Florists' Exchange, I pointed out the merits of the Shasta daisy as a plant for the commercial florist, adding a few hints on how to grow it to best advantage, as far as my own experience enabled me to do, trusting that such information would prove of benefit to the readers. I have not been mistaken, neither in the possibilities of the plant, nor in the willingness of our florists to give it a fair trial.

Now, after another year's experimentation with the Shasta daisy as first introduced some years ago, as also with the newer, greatly improved forms sent out last season, I find that all that was ever said in praise of the Shasta daisy is fully merited and has, to my entire satisfac-

tion, been substantiated by the plant's behavior last season. It is, and, no doubt, will be for many years to come, one of the most valuable plants for the commercial florist, be he retailer or wholesale grower.

The Shasta daisy is a hardy herbaceous perennial, therefore chiefly an outdoor plant. It is a healthy, robust and rapid grower, and a tireless producer of innumerable blooms on long, stiff stems throughout the entire season. The flowers are of immense size, snowy or creamy white, faultless in form, texture and lasting quality. They have, so far, always been scarce on the market, and also always called for, bringing the same price as first grade carnations. Two hundred high class blooms from a single plant during the Summer is nothing unusual. The flowers, cut when just fully developed, and kept properly, will, after two or even three weeks, be as perfect and salable as the day they were cut.

The plants in the open seem to require no special soil, care or culture, and have done well with me in all kinds of ordinary good garden land; but, I believe had extra pains been taken in giving them a very rich, sandy piece of ground, the most sunny situation and liberal waterings during the hottest part of Summer, all this would have been followed by still greater success.

The strains of seed, as now offered, are much superior to those obtainable a year or two ago, and will, wherever purchased, take good care of the reputation of the Shasta daisy and its originator. The initial cost of the seeds will be generously made good by the returns from the sale of flowers the first season. If the seeds are sown the latter end of February, or the first week in March, three-inch plants will be had by the first of May, ready to be planted into the field. These should be planted a foot or 14 inches apart in the row and two feet between rows. This is far enough apart the first season. In the Fall, the finest plants are dug up, divided into ten or twenty pieces and reset at distances of 18 or 20 inches in the row, in a well prepared field. All the plants from seedlings, started now, will give a fair crop of flowers in the latter part of Summer.

Plants to be grown in the greenhouse for their flowers during Winter and early Spring are best raised from seeds started in May or June, and such seedlings will be found better for that purpose than plants derived from divisions.

The three new varieties sent out by Mr. Burbank last year year can, of course, only be procured in the form of root divisions, either in a dormant state or pot-grown. No garden and no gardener should be without these masterpieces of skillful plant breeding. They have all been fully described in our trade journals, and I will here only add, that the

JUST RECEIVED THE ONLY DURABLE JAPAN BAMBOO STAKES

3 to 4 feet per 100, 50c.; 1000, \$3.25; 2000, \$8.00
5 to 6 feet " 75c.; " 6.00; " 11.00

FOR EASTER FORCING—MONEY MAKERS

Wistaria Sinensis, pot-grown, plants 2 ft. high, will bear 20 to 30 long racemes of flowers, pure white or purple.....	Each	Doz.
Begonias, tuberos rooted, in separate colors, white, rose, scarlet, crimson, yellow, orange, apricot or mixed, large bulbs, single giant.....	40	2.50
Begonia Double Giant Flowering, in separate colors, white, scarlet, crimson, rose, yellow, orange or mixed.....	60	4.50
Caladium Esculentum (Elephant's Ear), with sound center sheets, 6 to 8 inches.....	30	2.00
New Sweet Scented Herbaceous Begonia, 4 to 6 eyes, force well.....	50	3.00
" Multifracted Maples, many grades of diverse colored foliage, on one stem.....	50	5.00
Japan New Hydrangeas, hls., rose, white.....	40	4.50
New Hydrangea Rosea, large head of rosy flowers, reddish stems.....	1.00	10.00

BULBS FOR FORCING

	Per doz.	Per 100
Amaryllis Belladonna, rose, large bulbs.....	\$1.00	\$7.00
Begonias, tuberos rooted, in separate colors, white, rose, scarlet, crimson, yellow, orange, apricot or mixed, large bulbs, single giant.....	40	2.50
Begonia Double Giant Flowering, in separate colors, white, scarlet, crimson, rose, yellow, orange or mixed.....	60	4.50
Caladium Esculentum (Elephant's Ear), with sound center sheets, 6 to 8 inches.....	30	2.00
New Sweet Scented Herbaceous Begonia, 4 to 6 eyes, force well.....	50	3.00
" Multifracted Maples, many grades of diverse colored foliage, on one stem.....	50	5.00
Japan New Hydrangeas, hls., rose, white.....	40	4.50
New Hydrangea Rosea, large head of rosy flowers, reddish stems.....	1.00	10.00
All clean, first size stock.		
Gloxinias, white, scarlet, blue, purple, red with white border, violet with white border, tigered.....	60	4.00
Mixed Gloxinias.....	60	3.00
Tuberosea, Double Excelsior Pearl, extra fine stock, 4 to 6 1/2 in.....	1.00	7.50

If our new Spring List has not been mailed to you, send for it at once.

FRESH FERN SPORES

Adiantum Cuneatum	Lastrea Sieboldi	Pteris Magnifica
Pubescens	Lomaria Gibba	Majii
Williametii	Nephrodium Molle	Compacta
Gracillimum	Molle Cristata	Ouvrardi
Weigandii	Nephrolepis Bostoniensis	Serrulata
Aspidium Tenisimensis	Cordata Compacta	" Cristata
Cyrtomium Falcatum	Ooychium Japonicum	" Variiegata
Fortunii	Pteris Adiantoides	Sieboldi
Chloetium Schiedei	Hastata	Tremula
Davallia Stricta	Argyrea	Victoria
Gymnocarisma Chryseophylla	Cretica	Wimsettii
Lastrea Armetta	Cretica albo-Lineata	Longifolia
Opaca	Leptophylla	Selaginella Emiliana
	Majior	

FERN SPORES, 25 cts. per package; \$2.75 per doz.; \$1.00 per 1-64 cz.

H. H. BERGER & CO., 47 Barclay St., New York

Mention the Florists' Exchange when writing.

Bloodgood Nurseries, Inc.

Established 1790

Successors to KEENE & FOULK, Flushing, N. Y.

Norway Maples, 1 1/2 to 3 in. diameter.
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Rhododendrons, Azaleas, Spiræa Japonica, Liliun Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

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DEUTZIA GRACILIS, grown especially for pot culture; very bushy. 12 to 15 in. high, for 6 in. pots, \$5.00 per 100; 15 to 18 in. high, for 7 or 8 in. pots, \$5.00 per 100; similar to Gracilis, but stronger grower, 15 to 18 in. high, for 6 in. pots, \$8.00 per 100; 18 to 24 in. high, for 7 or 8 in. pots, \$10.00 per 100.
DEUTZIA LEMOINEI, best named Hybrid, bushy and full of buds. 20 in. high, \$9.00 per doz.; 24 in. high, \$12.00 per doz.; 30 to 32 in. high (heavy), \$24.00 per doz.
RHODODENDRONS, Spiræa Japonica \$3.00 per 100. Spiræa Nana Compacta \$4.00 per 100.

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SPECIAL LOW OFFER
Will move, this spring, a block of fine stocky trees: twice transplanted. In good roots, stems, caliper and tops they will please critical buyers. Low rates for March and April orders. Sizes 6 to 7, 7 to 8, 8 to 9, 9 to 10, and 10 to 12 feet.
ASK OUR PRICE AND SAVE MONEY
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Old-time Roses, Hardy Shrubs, Honeysuckle and Ribbon Grass at low rates. Also flowering Dogwood, Benzoin and tiny Oaks.

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Azalea Amoena

Ornamental Trees and Shrubs in Great Variety
Ask for Trade List

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WHAT DO YOU WANT?

2000 Hydrangeas Panicleata Grandiflora, 2 ft. sc., 1 ft. bc. 2000 Hydrangeas Otakes, for 4 in., 6c.; 3 in., 4c. 2000 Spiræas Anthony Waterer, 2 years, strong, bushy, 6c.; medium, 4c. 1000 Clematis Panicleata, 3 years, heavy, 10c. Clematis Jackmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Velutina, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyanas, field-grown, \$3.00 per 100. 5000 best shrubs and vines, dahlias, etc. Send for list.

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Ask for Our Catalogue. It will interest you.

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BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

PETERSON NURSERY CHICAGO, ILL.
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CALIFORNIA PRIVET CHEAP

100,000 well grown plants, 3 to 4 ft., selected, \$4.00 per 100; \$25.00 per 1000. 2 1/2 to 3 1/2 ft., 7 or more branches, \$2.50 per 100; \$17.50 per 1000; 20 to 30 in., 5 or more branches, \$2.00 per 100; \$13.00 per 1000. 18 to 24 in., height, 2 years, 3 or more branches, \$1.50 per 100, \$7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.

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Forest Tree Seeds and Seedlings

Large Surplus Tree and Shrub Seeds Nursery Grown and Collected Seedlings Small Seedlings for Lining Out a Specialty. Send for Trade List.

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Hardy, Fancy Ornamental Nursery Stock

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Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.

Write for price list.

J. E. HUTTON & SON CONYNGHAM, PA.

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Louisville, Ky.

Trade Notes.

St. Valentine's Day business was very satisfactory and showed a nice increase. While, naturally, violets and red flowers were mostly demanded, all kinds were used, as were also prettily decorated blooming plants. Those of the local stores who depended upon Chicago for a supply were badly handicapped in handling their trade, as the trains, which usually arrive at 7 a. m., did not reach here until noon.

The next meeting of the Kentucky Society of Florists will be held Tuesday evening, March 7, and has been designated here as Carnation Night. We expect a nice display, and cordially invite all florists who can possibly meet with us to come. Any grower desiring to make an exhibit and not able to come with it can send the same to our secretary, F. L. Schulz, 644 Fourth avenue.

The sincere sympathy of the craft is extended to Joseph Coenen in the loss by death, of a brother. A. R. B.

FIRES.

CARTHAGE MO.—On February 4, fire broke out in Perry Finn's greenhouse plant; damage to stock and structures, \$4,000. No insurance.

CAL. PRIVET, one, two and three years; also cuttings, any reasonable offer will be accepted on lots of 5,000 to carloads.
RIVER VIEW NURSERIES, J. H. O'HAGAN, Little Silver, N. J.

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HYDRANGEAS

Nice strong clumps for 5 in. and 8 in. pots, \$1.50 per doz.; \$10.00 per 100. (Smilax, strong, 21-4 in., \$10.00 per 100; \$1.25 per 100.)

W. G. KROEBER, 365 North St., New Bedford, Mass
Mention the Florists' Exchange when writing.

Vegetables

Tomato, Lorillard and Spark's Earlians, seed bed plants, 50c. per 100 by mail, \$2.00 per 1000 by express. Lettuce plants, transplanted, Big Boston and Tennis Ball, 35c. per 100, \$2.50 per 1000. Cauliflower, Snowball, strong, transplanted, \$1.00 per 100. GERANIUMS, 2 1/2-inch pots, strong, double mixed, the best bedders, \$2.50 per 100; strong stock plants from 6-inch pots, \$8.00 per 100. CANNAS, dormant roots, the latest and best variety, \$2.00 per 100. Cash with order, please.

C. LAWRTITZEN, - Rhinebeck, N. Y.
Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.
Mention the Florists' Exchange when writing.

DUTCH BULBS AND PLANTS

K. VAN BOURCONDIËN & SON'S
Wholesale Bulb Growers
HILLEGOM, HOLLAND
Until May write to

K. H. VAN BOURCONDIËN
Care Maltne & Ware,
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Mention the Florists' Exchange when writing.

100,000 STRONG

One and two-year Filmetto Asparagus; 31 varieties of Strawberries; Ward Black berry (send for descriptive circular) one of the most reliable for family or market; other small fruits. Peach and other fruit trees. Low Prices for First-Class Stock.

CHAS. BLACK, Hightstown, N. J.
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KOSTER & CO.

Hollandia **BOSKOOP, HOLLAND**
Nurseries
Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.
RHODODENDRONS, H. P. ROSES, Etc.
Catalogue free on demand.

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NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

STEPHEN HOYT, of New Canaan, has been elected one of the county vice-presidents of the Connecticut Pomological Society, which has a membership of 581.

FLUSHING, N. Y.—Messrs. Keene & Foulk, who have conducted the Bloodgood Nurseries for a number of years, have dissolved partnership. Mr. Keene has organized a company which will continue the business, and will add another branch to his business, that of landscape gardening. The new company will be known as the Bloodgood Nurseries, incorporated. The capital stock is \$50,000. A new site will have to be obtained for the business, as the property which they at present occupy on Broadway, Flushing, was sold to a New York syndicate not long ago. But the privilege was given the sellers of the property to remain until June, 1906. Theodore Foulk, who retires from the business, will, it is said, engage in the same line of business in the neighborhood of Flushing.

Hardiness of Viburnum Opulus.

In bulletin 108 of the University of Wisconsin, extracts from which appeared in a recent issue of The Florists' Exchange, is a list of satisfactory and of unsatisfactory shrubs for that State. Among the satisfactory ones is our old friend the common snowball Viburnum opulus sterilis, and in the unsatisfactory one, Viburnum opulus var. Just what is meant by "var." is uncertain. As a rule, there are but three sorts in nurseries, the type, Viburnum opulus; the snowball, V. o. sterilis, and the dwarf variety, V. o. nanus. It cannot be the typical one, V. opulus, for this is a native of Wisconsin, growing plentifully in many parts of the State, where it is called high bush cranberry, and is sometimes listed under its old name Viburnum oxycoccus. Will some of our Wisconsin friends tell us what is meant by Viburnum opulus var.?

While on this topic it is singular that varieties are often tender when the type is not. Take, for instance, the Japanese snowball. This is not as hardy as V. tomentosum, yet it is said to be a variety of it. Again, there is Viburnum rotundifolium, also said to be a variety of V. tomentosum, and it is not quite as hardy as V. plicatum. Still, there would seem to be no more reason why a variety should not differ in degrees of hardiness as well as in other respects, when once it commences to disagree with its parent.

Raising Witch Hazel From Seed.

A party living in New York writes me asking how to increase the witch hazel. Presuming he means the native one, it is raised from seeds. The shrub flowers in October and November, and the seed pods form then, but do not ripen until the next August or September. The pods are to be gathered then, when one or two by bursting open show the time has come for it. These pods are placed in a tray and set in the sun, that they may open at once. But they must have a sieve set over them, as when the pods open they eject the seeds at the same time, sometimes to quite a distance. This is not known to all who attempt to secure the seeds, and many are disappointed in finding themselves short of the seeds they expected. Seeds sown in Spring, and covered lightly, usually grow very well. Because of the shooting character of the seeds this shrub should be called the revolver shrub, the name artillery plant being pre-empted by the Pilea muscosa, which also projects its seeds.

The Japanese witch hazel has not been among us years enough that large bushes are to be had from which seeds might be looked for, so we have to increase it by grafting it on the wild one. It takes very well so treated. This Japanese one has yellow flowers, much like those of our own, but there are some small crimson dots at the base of the petals, if my recollection serves me right; and instead of its blooming the last thing in Autumn it does so early in Spring. Because of this, it is a welcome addition to our list of shrubs.

Germination of Seeds.

To know the value of covering up tree seeds when sown, one has but to think of the thousands of seeds that fall to the ground from a single forest tree, from which not one grows. The greater part are lost because of not having the necessary shade and moisture, which a slight covering of soil gives; and besides the covering referred to, there must be many other conditions necessary—warmth, continued moisture, and not too much heat at the commencement of sprouting.

There are failures with seeds continually occurring, against which it is almost impossible to provide. It is greatly in favor of germination that the seeds be

care, the elements may be against success. Lack of proper moisture in Spring; too great a heat before the seeds have sprouted, and other matters, sometimes destroy a sowing. A curious experience was that of one of our Philadelphia seedsmen. It related to a watched from the time of ripening until sowing, to see that they do not dry out. Even with the best of certain lot of evergreen seeds he sold to four customers. Three of them complained so badly that it seemed they had made a complete failure, while the fourth, with some of the same seed, sent word that he had a fine stand of seeds; and all were from the same lot. The fourth letter was a surprise to the seedsman. It came to hand some time after the others, quite unexpectedly. The condemnation by the others had been so unanimous that the seedsman had come to believe there must have been something amiss with the seed, and would still be thinking so had he not received the fourth letter, praising the seed.

Seeds should be secured as soon as ripe, sown then, or kept in good condition through the Winter and sown the very first thing in Spring; they should be properly covered and shaded in some way until they germinate. One may then expect success, but it cannot be assured.

JOSEPH MEEHAN.



PEAR MME. TREYVE

Grown under glass by Wm. Turner

English Hollies.

Editor Florists' Exchange:

In reference to the article on English hollies, Messrs. H. den Ouden & Son are quite right when they say "it is necessary that they have a good ball of earth to the roots." But this earth ball should be a natural root ball and not simply loose earth packed around the roots and then nicely sewed up in burlap in a nice ball shape, as is so often the case.

The holly requires frequent transplanting to make the plant form solid root balls, and this is not always properly attended to, for the simple reason that such plants are naturally of slower growth; hence give slower returns. It is of great benefit to the plants if a little wet moss be packed around the root balls and then sewn up solid in burlap. If the root balls appear to be a little dry when the plants arrive, they should have a good watering, and be placed in a cool, shady greenhouse. If placed in the shed, see that the doors are kept closed and the plants not allowed to suffer for water.

These plants, when unpacked, are sometimes placed in any old corner of a potting shed where the draft strikes them and dries them out too much. When our European brethren will send us the natural root balls, packed as above stated, and the American florists will give the plants a little better treatment in general, better results will be obtained.

DUTCHY.

FRUITS UNDER GLASS.

Pot Fruit Trees.

The cultivation of pot fruit trees is interesting work, and, aside from that, it is surprising the quantity of fruit that can be gathered from such trees, providing they are in a vigorous, healthy condition, brought about by good treatment.

Where space is valuable during Fall and early Winter, this method of fruit culture is to be commended. When the fruit is gathered, the trees are benefited by standing outside in the open, at least, till severe freezing; then they can be stowed away in a cool house where they would not occupy much space, as they can be set close together.

I have started these notes as referring to pot fruit; but supposing we change off to tubs. Take, for instance, two trees on a hot Summer day—have one in a tub and another in a pot; the former will surely have the better of the argument. The roots will be kept cooler in the tub, which will also hold moisture longer after watering. I have tried different methods of producing fruit in pots and tubs. Some years ago I had an experience in plunging the pots, but have come to the conclusion to use tubs, and above ground, to get best results.

Watering plays an important part as regards success or failure in fruit growing. We all know that fruit trees, when growing, delight in plenty of moisture both in the atmosphere and at the roots; at the same time they must not be watered to the extent of souring the soil.

There is something fascinating in those little trees loaded down with large handsome fruit; also in the variety of fruit that can be produced in this way. Probably the pear, grown in this manner, is one of the most beautiful sights of all, a single fruit of some varieties weighing from one pound to one pound and a quarter. To get best results, a good, light house is essential. It is immaterial whether the house run north and south, or east and west, providing it be light, with double vents, also ventilation at the bottom. No first-class fruit can be produced unless free ventilation is afforded, especially when the fruit commences to ripen.

Some may say, what is the use in growing fruit trees in tubs when good fruit can be produced in other ways? I will admit, to any one who has never handled fruit in this way, it appears an expensive method of growing it; but the labor attached to this branch is small compared to that necessary in other branches; the only work, outside of watering, etc., that amounts to anything, is the retubbing, which should be attended to once a year. The best time for this work is in the Fall, just as the trees begin to drop their foliage, or not later than when half the foliage has fallen. Of course, retubbing every season does not mean that they shall have a larger tub each year. It is one of the greatest mistakes to increase the root space too rapidly. Often the balls can be reduced and go back in the same size tub; but the new soil seems to give the plants fresh vigor. By repotting in the early Fall, the trees will make some new roots into the fresh soil, whereas if left till early Spring, the trees will not start up so readily. Trees grown in a confined space naturally require a fairly rich soil. A sod, similar to what one would cut for rose growing, would be ideal for fruit growing; but use manure, thoroughly decayed, say, one part of manure to three of soil, with a sprinkling of ground bone. This should make a good compost for pot fruit. The trees like perfect drainage and firm potting.

What a variety of fruit can be grown in this manner! Although, of course, some of it will be much better than others. I shall weed out the poor and undesirable sorts. First of all, I cannot recommend apples. While they are beautiful to look upon, they remind one somewhat of the California peaches—they would be perfect if the flavor were of a higher order. Apricots come small and undersized, while the flavor is A-1; but being small, I must set them down as undesirable. Cherries are adapted to this work, but even these are not satisfactory, they so easily throw their fruit. I have a few now under my charge and the fruit buds are all that could be desired; for all that, I look upon them with suspicion and doubt. In fact, I have known cherries look promising up to their stoning period, with the result that the fruit would turn yellow and drop—and this condition is unaccountable.

As pot fruits, peaches and nectarines head the list as the most valuable. All the varieties listed are adapted for pots or tubs. Next in order I would class the pear. Some wonderful fruit of these can be produced in this way, and of good quality. Some of the varieties are much better than others for the purpose. I will take the responsibility of recommending half a dozen sorts that I call top-notch for the work, viz., Conference, Magnet, Princess, Mme. Treyve, Souv. de Congress, Pitmaston Duchess, Durondeau or de Tongers, Fondante d'Automne, and Beurre Hardy.

Plums can also be included, but they cannot be recommended so strongly as the others. Although a few are fine, such as Golden Esperene, Deniston Superb, Oullin's Golden, Grand Duke, and Mallard.

It is possible to prolong the fruiting of pot fruits by selecting the early and late varieties

WM. TURNER.

CHRYSANTHEMUMS

Standard Large-Flowering Varieties

40c. per doz.; \$2.00 per 100; \$17.50 per 1000.

Bonnaffon. Clear golden yellow.
Col. D. Appleton. Large, globular yellow.
Black Hawk. Dark crimson.
Glory of the Pacific. Early, deep pink.
Golden Wedding. Grand, golden yellow.
Ivory. An old favorite white.
Mrs. Henry Robinson. Fine, early white.

Maud Dean. Large incurved pink, of fine form.
Mrs. J. Jones. Beautiful, waxy white.
Mrs. O. P. Bassett. Light, clear yellow.
Minerva. Large, incurved golden yellow.
Rose Owen. Early; light pink.
Timothy Eaton. Large, white, incurved.

HARDY CHRYSANTHEMUMS, Large-Flowering or Aster Varieties, the best for Decorating or Bunching

50c. per doz.; \$3.00 per 100; \$20.00 per 1000.

Allentown. Beautiful silver bronze.
Alice Carey. Crimson-salmon; very dwarf.
Ashbury. Sulphur-white.
Blenheim. Magnificent silver pink.
Bohemia. Fine, pure yellow.
Cerise Queen. Beautiful cerise pink.
Constance. Large; large pink, open center.
Cowenton. Fine; scarlet-bronze.
Daybreak. Daybreak pink.
Duluth. Pleasing shade of pink.
Ethel. Exquisite; violet-red, long sprays.
Fred J. Red-orange.
Gloire de France. Silver pink.
Hester. Pearl white, shaded white.
Hijos. Beautiful primrose pink.
Henrietta. Bright bronze.
Joppa. Violet-crimson.
Lady de Vau. Violet-pink.

Mrs. Vincent. Deep red violet.
Montclair. Red-orange, open center.
Peto. Terra cotta red.
Prince of Wales. Best pure white.
Queen of Bul. Violet-rose.
Ruby Queen. Dark, ruby red.
Salem. Clear rose-pink, white disc, open center.
Sir Michael. Lemon-yellow, open center.
Sir Walter Raleigh. Large terra cotta, open center.
Sis Hopkins. Silver bronze.
Soeur Melaine. Dwarf, pure white.
St. Anselom. Pure white, open center.
Stratagem. Dark red-orange.
Sunset. Scarlet bronze, golden center.
Tisri. Dwarf; violet-red.
Winfred. Beautiful soft pink.



SINGLE VARIETIES. 50c. per doz.; \$3.00 per 100.

Aaron. Bronze scarlet.
Leo Niessen. Scarlet-salmon.
Miss Marguerite. Bright scarlet, yellow disc.
Othello. Bronze orange.
Princess of Thule. Red-orange.
Providence. Large; snow-white.
Romeo. Salmon-pink.
Rosy Horn. Silver pink.
Wallis. Beautiful, clear golden pink.

SMALL-FLOWERED OR BUTTON VARIETIES. The Best for Bedding or Planting in Borders.

40c. per doz.; \$2.00 per 100; \$17.50 per 1000.

Anna Mary. Creamy white, tipped pink.
Anne Arundel. Orange, tipped scarlet.
Captivation. Rose pink, yellow shading.
Dawn. Daybreak pink.
Dinizulu. Violet-pink; fine for long sprays.
Dundee. Scarlet-maroon.
Edna. Beautiful, glowing violet-red.
Emotion. Silver pink.
Erminie. Bright orange-scarlet.
Fashion. Malze-yellow.
Golden Pheasant. Deep orange-yellow.
Jack. Violet-rose.
Goldfinch. Golden yellow, shaded crimson.
James Boon. Pure white.
Leo. Pure golden yellow.
Nellie Rainsford. Dwarf, bronze-pink.
Norwood. Pearl white, open center.
Paragon. Pure white, open center.
President. Rich, violet-red.
Princess Louise. Yellow and tawny red.
Rhoda. Pink, shaded white.
Rosinantes. Dwarf; blush, sulphur shading.
Rosy Sun. Crimson-maroon.
Tennyson. Pure yellow.

VEGETABLE PLANTS

CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per 100; \$1.00 per 1000; \$8.50 per 10,000.
PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.
LETTUCE Big Boston, Boston Market and Grand Rapids, 25 cts. per 100; \$1.00 per 1000.
TOMATO Lorillard seed bed plants, 50c. per 100, by mail; \$2.00 per 1000, express. 2 1/4 in. pot plants, 40c. per doz., \$2.00 per 100.

Miscellaneous Plants

2 1/4-in. stock in A1 condition.

	Per 100	1000
Abutilon, Savitzii.....	\$2.00	
Ageratum, Dwarf White and Stella Gurney.....	40c. per doz.;	2.00 \$17.50
Alysaum, Dwarf White and Giant Double.....	40c. per doz.;	2.00 17.50
Alternanthera, red and yellow in var.....		2.00 16.00
Aquilegia (Columbine), single mixed.....		3.00
Canna, 10 var., 3 in. pots.....		4.00
Carnations, Dwarf hardy mixed.....	1.50	12.50
" " Marguerite.....	1.50	12.50
Coleus, in good variety.....	2.00	16.00
Cuphea, (Cigar Plant).....	2.00	
Delphinium Formosum.....	1.50	12.50
Digitalls (Fox Glove), fine mixed.....	1.50	12.50
Ficus Elastica, (Rubber Plant), per dozen, \$1.00.....		
Fuchsias, Black Prince & Minnesota.....	2.00	3.00
Gaillardia Grandiflora.....		3.00
Geraniums, Rose, Lemon, Mrs. Taylor and Fernifolia odorata.....	2.00	
Hardy Chrysanthemums, small-flowering varieties.....	2.00	17.50
Hardy Chrysanthemums, large-flowering varieties.....	3.00	20.00

Our collection of Hardy Chrysanthemums was awarded the diploma at New York by the American Institute.

Not less than five of any one variety sold.

MISCELLANEOUS PLANTS

(Continued)

	Per 100	1000
Hardy Phlox, 10 named var.....	\$3.00	
Hardy English Ivy.....	2.00	\$16.00
Heliotrope, good varieties.....	2.00	17.50
Hibiscus, 3 varieties.....	3.00	
Hollyhock, double white and mixed, 3 in. pots.....	8.00	
Lemon Verbena.....	2.50	17.50
Lantana, 10 varieties.....	2.00	17.50
Maranta Massangana.....	4.00	
Moonvines, white and blue, 50c. per dozen.....	3.00	25.00
Pansies, fine, strong, mixed, in bud.....	1.50	12.50
Petunias, Dreer's double mixed.....	2.50	
" " 5 named varieties.....	3.00	
" " Dreer's superb single mixed.....	2.00	15.00
" " fine mixed.....	1.50	12.50
Sage, Holt's Mammoth.....	2.00	15.00
Salvias, in variety.....	2.00	17.50
Smilax, strong.....	2.00	15.00
Stevia, variegated.....	2.00	
Swainsona Alba and Rosea.....	2.00	17.50
Sweet William, double mixed, 3 in. 3.00		
Verbenas, white, purple and scarlet separate.....	2.00	15.00
Verbenas, good mixed.....	1.50	

GERANIUMS

Good, strong stocky plants, from 2 1/4 in. pots.
Doubles, Brant, Celsur, Comtesse de Harcourt, Double General Grant, Gloire de France, Jean Vian, La Favorite, Le Cid, Mme. Canovers, Mme. Charlotte, Mme. Jaulin, Mme. Landry, Miss Kendall, Miss Frances Perkins, Stogles, Granville, Mme. Bruant, Mrs. E. O. Hill, Queen of the West, Single General Grant.
 40 cts. per doz., \$2.00 per 100, \$17.50 per 1000, providing that not less than 200 of any one variety.
 Send for our descriptive Geranium Catalogue.

DAHLIA ROOTS

Good selection of standard varieties, \$5.00 per 100; \$40.00 per 1000. Mixed, \$4.00 per 100; \$35.00 per 1000.

CASH WITH ORDER, PLEASE. SEND FOR TRADE PRICE LIST. Write for special price on large lots of anything in this list.

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



Coal.

(77) Will you kindly tell me what would be the proper amount of coal to be used in a little rose house, 20x35 feet, heated by hot water, during a season?
O. E.
—About three tons of coal should keep such a house warm through the season.

Time to Pot Cannas.

(78) Kindly inform me the proper time to pot cannas.
G. B. W.
—To have good well started plants ready for outdoors by the middle of May, the roots should be potted and put in the light the last week in March.

A Rose Trouble.

(79) I send by mail a diseased Perle des Jardins rose from a solid bed late planted. The temperature was lower than it should have been, and the edge of the bed was a little shaded in the morning; but I fear the trouble is caused by the nematodes or eel worms, or something, requiring throwing the plants out and renewing the soil. Some other sorts are affected, but not so badly.
E. T.
—The rose plant sent for inspection appears to be simply a sickly one, suffering from uncongential conditions. Planted in a solid bed late, and with a low temperature, Perle des Jardins roses will never do well; they should have 60 degrees at night, and all the light and sunshine possible to be a success. We see no signs of eel worms in the roots of the plant sent.

Lily of the Valley.

(80) Last Spring I set out several thousand lily of the valley pips. I had tried to force these pips the previous December, but as they had not been dormant long enough, they failed to grow under heat. I buried them until April, when I put them out. Nearly every one of them bloomed, and have made a good root growth. Will I be able to force them next Winter? Do pips, after they are three years old, bloom every year if allowed to remain in the ground? Is a pip at its best for forcing at three years old? I have been told that a pip five or six years old will produce better blooms than one three years old. Which is the best time to set out 2-year-old pips—Spring or Fall? What can I do with the small pips (about one inch long) that I will find on the roots of the 3-year-old pips when I dig them?
SUBSCRIBER.

Carnations.

(81) I have about 15,000 carnations that were struck early in the season, and at this date are ready for a shift. Now I have a house of carnations which have done poorly all Winter, and some of them have stem rot. Would it be better to leave my young stock in 2½-inch pots or plant them right in the soil that is in the carnation house?
A. B. C.

Carnations.

(82) I send sample of violet stems; hundreds of our violets come like these without flower. Kindly inform me as to cause. The plants are in a very healthy condition, grown in a house, night temperature 40 degrees, and as near to that as we can keep them in the daytime. I wish to keep them back for Easter. What means would you advise?
FLORIST.
—The cause of the violet stems coming blind is no doubt lack of heat and light, and they will improve as the season advances. Easter is very late this year, and we know of nothing better to keep the violets back than to have them in a good healthy condition; keep them growing, but as cool as is possible consistent with other conditions.

Carnations—Adiantum Croweanum.

(83) I have been trying to root carnation cuttings in my carnation house. I have a bench filled with washed open sand with good drainage. I keep the temperature at 48 to 50 degrees at night, ventilate to keep it down in the daytime, and do not let the sun shine on the plants. I am growing good blooms in the same house and getting a good yield.
Do you know where I can find true Adiantum Croweanum spores?
D. H.
—We believe that the failure to root the carnation cuttings in this case arises from a too free circulation of air, and we would advise screening off the cutting bench by fixing a piece of muslin cloth all around the sides of it. By doing this, we have no doubt the cuttings will root readily.
Adiantum Croweanum does not seed. You will have to purchase young plants; they can be had through W. F. Kasting, Buffalo, N. Y.

Fertilizer for City Yard.

(84) In the case of a city yard containing several beds of hardy herbaceous plants, where spading or working the soil would damage the roots of the plants, and where well-rotted barnyard manure is not easily obtainable, would you recommend sprinkling the surface of the beds with a commercial fertilizer in order to obtain good results? In supplying necessary food to the plants, what kind of fertilizer would be most suitable, and when is best time to apply it?
W. F. B.
—We would recommend the purchasing of a bag of pulverized sheep manure, and giving the plants a good mulch with that. Very early in the Spring will be the best time to apply the fertilizer.

Boxes for Shipping Violets.

(85) Can you inform me where I can procure suitable boxes for shipping violets, such as are described in Dr. Galloway's "Violet Culture"?
J. F. C.
—We know of no firm who makes the boxes mentioned. Have your local carpenter make them.

Tritoma Pfitzeri.

(86) How should bulbs of Tritoma Pfitzeri be treated, to have good, advanced plants for Spring bedding?
L. H.
—The tritomas may be potted and started the same as is done with cannas; or the tubers may be planted direct in the ground as soon as danger from frost is over. Starting them under glass will, of course, make them earlier.

Tuberous Begonias.

(87) Is it a good plan to put tuberous rooted begonias in a bench, with about 60 degrees bottom heat, and after they have started to grow to pot them up in 4-inch pots?
L. H.
—It will be better to pot the begonias. There will then be less danger of their succering from too much water. A temperature anywhere between 55 and 60 degrees will answer very well.

Farfugium Grande.

(90) Can you give botanical name of Farfugium grande; the natural order it belongs to, etc.?
T. U. W.
—Farfugium grande belongs to the compositae order; tribe, Senecionidae; its correct name is Senecio Kämpferi.

Roses Dropping Their Leaves.

(91) Please give remedy and name of disease on my roses. Small spots form on the leaves (dark brown or black); they show on both sides, but plainer

Violets.
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CHRYSANTHEMUMS

The most recent introductions, both foreign and American; also the largest list of the best standard varieties in the country.

WRITE FOR PRICES

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

on top. The leaflets drop from the main leaf-stem while quite green, sometimes yellow. Young plants, rooted last Summer in open ground, have lost all their leaves. The wood seems to be perfectly healthy.
S. S.
—Will inquirer please tell us what varieties of roses he refers to, and if they are grown under glass or outdoors? If under glass, what treatment have they been subjected to? From the first part of his question, we would gather that the trouble is black spot; and from the latter part, it would seem that the varieties grown are h. p. varieties, which were simply taking a natural rest.

Disease on Geraniums.

(99) We send a leaf or two of geraniums affected with a disease. Can you tell us the cause and remedy to check same? The varieties mostly affected are John Doyle and Le Soleil. We have the S. A. Nutt, Beaute Poitevine, and some other varieties which as yet do not show any signs of the disease. All are grown in the same house, and have been treated exactly alike. We might add that these houses have not been fumigated since last Fall.
GERANIUM.
—We do not believe that the geraniums are suffering from any disease; but that the turning in color of the edges of the leaves is due to some local cause, perhaps getting too dry at the roots, and being sprinkled overhead instead of being watered thoroughly.

VINCA

vsr. strong 3 in., plenty of leads, ready for a shift, \$4.00 per 100; 3 ½ in., 8 cents, Cash.
J. W. ENGLE, R. D. No. 8, Dayton, O.
Mention the Florists' Exchange when writing.

CANNAS

Dormant roots 2, 3 and more eyes, Albs., Anstris, Allemañs, Brnbank, Buttercup, F., Vanghen, Mme. Crozy, Black Prince, Bonvier, P. Marquand, Italia, Egandale, Robusta, Metallica, red leaf, \$2.00 per 100; \$15.00 per 1000; mixed, \$10.00 per 1000.
Shellroad Greenhouses, Grange P. O., Selts., Md.
Mention the Florists' Exchange when writing.

Alternanthera

Anrea Nins, yellow, Roses Nins, red and Tricolor, dark brown.

Coleus

Golden Bedder, Best Yellow, Verschaf. fertilil, Red and good mixture of best colored varieties for hanging-baskets, window boxes and vases. 60 cts. per 100, \$5.00 per 1000.
Cash with order or satisfactory references.

Baur Floral Co., Erie, Penn.

Mention the Florists' Exchange when writing.

SHAMROCK

Something new! From cemetery of Down, Patrick in Ireland. Plants, from 2 ½ in. pots, \$4.00 per 100; \$35.00 per 1000. 25¢ at 1000 rate. Cash with order. Order early, as stock is limited.
I. D. HARCOURT'S SON, WAPPINGERS FALLS, N. Y.
Mention the Florists' Exchange when writing.

HELIOTROPE

2 ½ in., \$2.00 per 100.
COLEUS, 2 ½ in., \$2.00 per 100.
Cash with order, please.

W. H. PARSIL, Summit, N. J.

Mention the Florists' Exchange when writing.

COLEUS

For Sale: Rooted Cuttings, strong and clean, of Golden Bedder, Verschafertilil, Victoria, \$3.00 per 1000. Pot Harrisil Lillies 12c. per flower.

I. H. EISENBERG,

440 Albert Street, Long Island City, N. Y.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUM

WM. DUCKHAM

Rooted Cuttings, \$4.00 per Doz. Stock Plants, \$15.00 per 100.

CARNATIONS

Rooted Cuttings, White Lawson and Mrs. M. A. Patten, \$6.00 for 1.00.

GALAX, green or bronze, 75c. per 1000.

FLORISTS' WIRE, No. 22 or 24, cut 9 or 12 inches, 90c. per box.

C. L. HOWE, DOVER, N. H.

Mention the Florists' Exchange when writing.

SHAMROCK

...IRISH...
Grown from cuttings, very strong and fine. None better offered. Will be just right for St. Patrick's Day. Don't wait until all are sold. \$4.00 per 100, or 60c. per doz. by mail.

XXX STOCK, READY FOR 3 IN. POTS

Labellia, Emperor William, finest dwarf dark blue, grown from cuttings. \$2.00 per 100.
Heliotrope, Light and dark. \$2.00 per 100.
Lantanas, Pink and yellow. \$3.00 per 100.
Ageratum, "Gurney," best dwarf blue. \$2.00 per 100.
XXX Seeds as advertised in THE FLOREST, EXCHANGE January 28.
CASH. Extras added liberally.

JOHN F. RUPP, Shiremanstown, Pa.

The Home of Primroses.

ROOTED CUTTINGS

Salvia, Bonfire, etc.....	100 1000
Vinca, Variegated.....	1.00 10.00
Giant Double Sweet Alyssum.....	1.00 10.00
Heliotrope.....	1.00 10.00
Coleus, 15 varieties.....	60 5.00
" C. Verschafertilil, G. Bedder.....	80 6.00
Ageratum, Princess Pauline.....	50 5.00
" Stells Gurney.....	75 6.00
Fuchsias, best varieties.....	1.50 15.00
Double Petunias.....	1.50 15.00
Ivy Geraniums, 2 in. pots.....	2.50 25.00
Mme. Sallerol, 2 in pots.....	2.50 25.00
Campe, dormant, 2 to 3 eyes.....	2.50 20.00
By mail 12c per 100 extra. Cash with order.	

ERNEST HARRIS, Delanson, N. Y.

Mention the Florists' Exchange when writing.

Double Pink PETUNIA Fringed BERKSHIRE

Strong grower, very free bloomer and a beautiful shade of pink—color of Bridesmaid rose. I guarantee this Petunia to be as represented. Orders filled in rotation at the following prices: Rooted cuttings, prepaid, 25 for \$1.00; 50 for \$1.75; 100 for \$3.00; 2 ½ in. pot plants, \$5.00 per 100, expresse.
Cash with order.

L. W. ACHESON, Hamlin Street, Pittsfield, Mass.

Chrysanthemum Novelties

Merstham Yellow, White Coombe, Emily Millham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Duckham, the opp winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.

Mention the Florists' Exchange when writing.

Wm. Duckham } etrong 2 ½-inch pot plants
Dr. Enguehard } \$4.00 per 100; \$30.00 per 1000.

HENRY EICHHOLZ, Waynesboro, Pa.

Mention the Florists' Exchange when writing.

THE E. G. HILL CO., Richmond, Indiana

ROSES

Nicely established plants, clean and healthy

BRIDE, BRIDESMAID, IVORY, GATE, PERLE, PINK COCHET, WHITE COCHET

All the best sorts for bedding or forcing, \$3.00 per 100; \$25.00 per 1000.

Besides our own two new roses

Richmond and Rosalind Orr English

we have a delightful novelty set, embracing the French and German Ramblers, a new Rugosa, M. Pernet Ducher's, Etoile de France, and Jos. Hill, the Dickson set and others. Send for list.

Chrysanthemums

Best Standard Sorts, from early to late, in White, Yellow, Pink, Bronze and Red, \$3.00 per 100; \$25.00 per 1000.

Let us book your order now for late delivery; the finest commercial and exhibition novelties. Send for Descriptive List.

You will need some

ANEMONE POMPONS

and September Flowering Sorts for early cutting.

Also a general line of

BEDDING PLANTS Send for List

THE E. G. HILL CO., Richmond, Indiana

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS	\$12.00	\$100.00	NELSON	\$1.50	\$12.50
CHICAGO WHITE	12.00	100.00	LAWSON	1.50	12.50
RICHMOND GEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
ENCHANTRESS	3.00	25.00	QUEEN LOUISE	1.00	9.00
BOSTON MARKET	2.50	20.00	PERU	1.00	9.00
ADONIS	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

2 1/2 Pot Plants

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	CHATENAY	\$4.00	\$30.00
ROSALIND ORR ENGLISH	25.00	200.00	SUNRISE	4.00	30.00
LA DETROIT	6.00	50.00	KAISERIN	4.00	30.00
LIBERTY	5.00	45.00	BRIDESMAID	3.00	25.00
PERLE VON GODESBERG	5.00	40.00	BRIDE	3.00	25.00
UNCLE JOHN	4.00	35.00	IVORY	3.00	25.00
			PERLE	3.00	25.00

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

PETER REINBERG, 51 Wabash Ave., Chicago

Telephone, 2846 Central

Mention the Florists' Exchange when writing.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silver pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	CRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories

NATICK, MASS.

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.



With the care of our young stock to absorb our attention, the old plants should not be slighted, and rather than neglect them it will pay to secure, if possible, a little extra help.

Green fly will from now on prove troublesome, and the old proverb, "an ounce of prevention," etc., should be borne in mind. It seems that there are still a few growers who cannot get rid of this pest, as a number of queries have come to my hand asking what to do for it.

No one but an experienced man should be permitted to look after the young plants, and the growth of these should not be checked in any way; for if stunted in its early growth, the plant is left weak, in a measure, and is more liable to a check later on.

If more cuttings are to be put in the sand, no time should now be lost, as from now on roses are more difficult to root, the temperature not being so easily controlled.

J. D. THOMPSON CARNATION CO. JOLIET, ILL. Carnations Our Specialty

Indianapolis.

The Week's News. Mr. and Mrs. Anthony Weigand are making a six weeks' tour of the West; they intend spending most of the time in California.

ETHEL WARD

(From soil), \$4.00 per 100. FENN, \$15.00 per 1000. LAWSON and QUEEN LOUISE, \$10.00 per 1000. HESSION, Clarkson St., FLATBUSH, BROOKLYN, N. Y.

Strong Rooted Carnation Cuttings

Table with 2 columns: Variety and Price. Includes Enchantress, Lord, Angel, Lawson, Gov. Wolcott, Flora Hill, Boston Market, Adonis, Flamingo, Estelle, Bradt, Mrs. M. A. Patten, Peru, Queen Louise.

SOL GARLAND, Des Plaines, Ill. Mention the Florists' Exchange when writing.

CARNATIONS Chrysanthemums and Violets

Rooted Cuttings. Send for List WILLIAM SWAYNE, P. O. Box 226, Kennett Square, Pa.

ROOTED CARNATION CUTTINGS Polled and from Sand

Nice clean stock of Enchantress, Nelson Fisher, M. A. Patten, Boston Market, Gov. Wolcott, White Cloud and Mrs. F. Joost. Last two varieties also unrooted.

C. G. VELIE & SON, Marlborough, N. Y. Valley View Greenhouses

FINE CARNATIONS BREAD AND BUTTER VARIETIES

Queen Louise, and Genevieve Lord, Rooted Cuttings \$1.00 per 100; 2 1/2 inch pots, \$2.50 per 100. Mrs. Fisher, 2 1/2 inch, for Summer bloom, \$2.50 per 100.

WM. KEIR, Pikesville, Md. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS CARNATIONS

Table with 2 columns: Variety and Price. Includes Enchantress, Lawson, Queen Louise, Mrs. Naylor, Florians, Morning Glory, Gov. Roosevelt.

IEWETT CITY GREENHOUSES, Jewett City, Conn. Mention the Florists' Exchange when writing.

RIGHT HERE IN CONNECTICUT

Clenn, Strong, Healthy Rooted Cuttings and 2 in. Pot Stock Now Ready CUTTINGS Per 100. Coleus, 10 Varieties, \$0.50. Achyranthus Emersonii, 75. Ageratum, Dwarf Blue, 75.

D. WM. BRAINARD, L. B. 373, Thompsonville, Conn. Mention the Florists' Exchange when writing.

MODEL EXTENSION Carnation Supports

Wire Rose Stakes and Tying Wire IGOE BROS., 226 North 5th St. Brooklyn, N. Y. Manufacturers. Mention the Florists' Exchange when writing.

BRIDE AND 'MAID

Strong 2, 3 and 4 eye cuttings, nothing smaller than two eye, rooted and ready for immediate delivery. \$1.50 per 100; \$12.50 per 1000. GED. E. CAMPBELL, Whiteford, Penna. Montgomery Co.

ROSE STOCK

2000 Grafted Kaiserin, \$15 per 100, \$120 per 1000. 1000 Grafted President Carnot, \$15 per 100, \$120 per 1000. 2000 Kaiserin, own roots, \$5 per 100, \$45 per 1000.

A. N. PIERSON, Cromwell, Ct. Mention the Florists' Exchange when writing.

Manetti Stocks

Just received in splendid condition. No. 1, 5-10 mm., \$10.00 per 1000; \$95.00 per 10,000. No. 2, 3-5 mm., \$7.50 per 1000.

JACKSON & PERKINS CO. NEWARK, NEW YORK.

Mention the Florists' Exchange when writing.

ROOTED CARNATIONS Fine healthy Stock

Table with 2 columns: Variety and Price. Includes White Lawson, Lady Bountiful, Mrs. M. A. Patten, Nelson Fisher, Dahlm, Flamingo, Enchantress, Boston Market, The Queen, Mrs. T. W. Lawson, Gen. Maceo, Morning Glory, Mrs. G. M. Bradt, Melba, Queen Louise, White Cloud.

GRAFTED ROSES FINE STOCK

We are hooking orders now for delivery as desired. Bride, Bridesmaid, Golden Gate, from 2 1/2 inch pots, \$12.00 per 100. Killarney, \$18.00 per 100; Franz Deegen, from 2 1/2 inch pots, \$15.00 per 100.

GERANIUMS Double and single varieties, 100 1000. Strong pot plants, \$3.00 \$25.00. Strong rooted cuttings, 2.00 15.00.

VERBENAS

Best Mammoth, rooted cuttings, \$1.00 \$8.00. CHRYSANthemUMS

ROOTED CUTTINGS MISCELLANEOUS

Table with 2 columns: Variety and Price. Includes Ageratum, Cope's Pet, White Cap, P. Pauline, S. Gurney, L. Bonnet, Achyranthus, four sorts, Canmas, dry roots, named varieties, Coleus, best bedding and fancy sorts, Cuphea, Fuchsia, double and single, Feverfew, double white, Heliotrope, light and dark, Impatiens Sultan, Moon Vine, true white, Salvia, Splendens and Bodmer, Salvia, new early flowering sorts, SMILAX, 2 1/2 in., ASPARAGUS SPRENGERI, 3 in. pots, WOOD BROS., Fishkill, N. Y.

20,000 ROSES Grafted

Out of 2 1/2 in. Pots Ready for delivery March 20th Brides and Bridesmaids, \$12.00 per 100 Liberties, 15.00 per 100

Out of 3 1/2 in. Pots For April and May Delivery Brides and Bridesmaids, \$15.00 per 100 Liberties, 20.00 per 100

Order by mail or from our salesman, BERNARD McGINTY, Flower Market, 1A Park St., Boston, Mass.

Montrose Greenhouses MONTROSE, MASS.

Mention the Florists' Exchange when writing.

60,000 Grafted Rose Plants

We are now grafting on English Manetti the above amount of all selected flowering wood. NO BLIND wood used at all. We offer for sale, delivery about April 1st, in 2 1/2-inch pots, thoroughly hardened off and ready to shift into 3 1/2-inch, the following:

Table with 2 columns: Variety and Price. Includes Bride, Bridesmaid, La Detroit, Gen. MacArthur, Liberty, ROOTED CUTTINGS—Ready Now, Bride, Bridesmaid, Chalenay, Liberty, Perle.

CARNATIONS

Table with 2 columns: Variety and Price. Includes Gov. Wolcott, White Cloud, Norway, Lawson, Morning Glory, Joost, Enchantress, Flamingo, Crusader, Estelle, America, Crane, Prosperity, Gaiety.

All Plants Shipped from Hinsdale. BASSETT & WASHBURN Greenhouses: HINSDALE, ILL.

STORE: 76 Wabash Ave., CHICAGO, ILL. Mention the Florists' Exchange when writing.

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Copy must reach this office Thursday morning to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

The Week's News in Brief.

High prices for glass are still talked of.

A bulb farm is to be established near Seattle, Washington State.

The fire record among greenhouses is still an extensive one.

Reports of failures of many of the round seed crops in Europe are prevalent.

A valuable article on cutting, packing and shipping roses (illustrated) will be found on page 242.

John Spalding, the veteran florist, of New London, Conn., is dead at the age of 91 years.

Ferdinand Mangold, Jay Gould's gardener for many years, is dead. He was 77 years of age.

William Elliott & Sons, New York, will begin the auction season the second week in March.

A great international exhibition of chrysanthemums will be held in Paris, France, May 20 to 28 next.

The next meeting of the Philadelphia Florists' Club, March 7, will be rose night. Exhibits are solicited.

J. J. Comley, a florist of Newburyport, Mass., has suffered quite a loss from gas escaping in his greenhouses.

Wallace R. Pierson tells our readers something about carnation cuttings, as seen by him in California. See pages 238-9.

A fire next door to Clucas & Boddington Company, New York, this week, fortunately did no damage to that firm's warehouse. It was a close shave.

John Bader, florist, has been elected to the Council of Allegheny City, Pa. W. Clark, of the Pittsburg Cut Flower Company, has been elected school director in his home town.

Some flowers of carnation Cardinal, from E. G. Hill Company, Richmond, Ind., arrived too late for judging at the Toronto Flower Show. The blooms were considered the best on exhibition there.

Secretary Stewart, of the S. A. F. O. H., asks introducers of new varieties of plants, home grown and foreign, to send him a list of same, for inclusion in the society's forthcoming annual report.

The Chicago Carnation Company, Joliet, Ill., again won the challenge cup for carnations at the Toronto show this week. The cup has now been captured twice by this firm. Another winning, and the trophy becomes Mr. Hartshorne's property.

Twenty thousand Scotch broom plants are to be used along the sides of the boulevard in Washington Park, Seattle, Wash.

NATIONAL HORTICULTURAL SOCIETY OF FRANCE.—This society has organized a great international exhibition to be held from May 20th to 28th, 1905. Exhibitors from foreign lands are invited to take part. The program of the show and of the horticultural congress which is also to be held can be obtained from the address of the society, 84, Rue de Grenelle, Paris.

THIS WEEK'S SUPPLEMENT.

Pseudo-larix Kaempferi—Japanese Golden Larch.

One of the commonest trees of our lawns and parks is the European larch, *Larix europæa*, everywhere admired for the symmetry of its growth and the early putting forth of its vivid green foliage in Spring. No other larch does just the same. Our native one, *L. americana*, does not make such a compact growth, though its outline is regular.

The one our notes concern, chiefly, the Japanese golden larch, as it is called, has a character of its own. At a little distance away one can hardly determine if it is a larch or a cedrus. Many, in fact, believe it to be *Cedrus atlantica* until a closer inspection undeceives them. It will be noticed what a loose style of growth it has compared with the European larch. In addition to this distinction, there is that of the foliage, which appears more flatly arranged than that of other larches. And in the Autumn the color of the foliage becomes of a golden yellow, a beautiful feature, and one from which the tree takes its name—golden larch.

It remains to be said of this tree that in a botanical way it has been removed from the true larches and made into a distinct genus, under the name of *Pseudo-larix*, becoming *P. Kaempferi*. The main distinction between the two is that in the case of the common larch the cones are persistent, hanging on the tree all Winter, while those of the pseudo-larix are of a deciduous nature, falling away when ripe, as do those of firs. When the cones are seen in the Summer, when well grown, they are larger and appear rounder than those of the true larches. Altogether, it is a distinct and valuable tree.

The large tree on the left is the sour gum, *Nyssa multiflora*, not so shapely as when it is a young tree, but gorgeous in attire when it takes on its vivid crimson foliage in Autumn.

Still to the left is a bed of the *Hydrangea paniculata grandiflora*, while to the right are glimpses of *retinisporas*, *cephalotaxus* and other evergreens, the whole view being one in Fairmount Park, Philadelphia.

Before closing, we should state that planters say to set larch in early Fall or very early Spring. Planted after the buds burst in Spring, the results are rarely satisfactory. JOSEPH MEEHAN.

Activity of Our Florists' Clubs.

It is to us, as it must be to all interested in the welfare of the business generally, a source of great gratification to observe from their doings, as these are recorded from week to week in our columns, the prevalent activity of the florists' clubs throughout the country. And that the worth of the work of these organizations is becoming more and more apparent to the local tradesmen is evidenced by the increase in membership, which is everywhere disclosing itself.

The value of this work, however, is not circumscribed or sectional, but is widespread and general, for despite the fact that there are in the ranks of the members of some organizations one or two men—for whom we have the most sincere pity—who are narrow-minded enough to seek to confine club effort to those "who pay for it," this selfish and un-American spirit has never been—and never will be—able to prevail over the altruistic liberality which shares with the trade, as a whole, the good accruing from individual club endeavor, whether in the matter of papers read, awards given or otherwise.

The true mission of a florists' club is well set forth by President-elect Langhans, of the Pittsburg and Allegheny organization in his inaugural remarks published in our issue of February 11. He said: "We have come together and frankly told each other what we knew, or thought we knew, about our art and our business; we have made exhibits of flowers, plants, florists' and gardeners' material, interesting in themselves and of great educational value to our profession"—and, continues Mr. Langhans, "I am certain that no one who has attended our meetings can truthfully say he has learned nothing at them, and received no benefit from them."

The association we have just cited is an example of the progress that can be accomplished by sincere, real work. Not so many years ago, it was hardly possible to get a quorum to attend its monthly meeting. Now we read that standing room is sometimes at a discount. The club members have been generous enough—and no doubt rightly so—to attribute very much of this change in conditions to the untiring efforts of William Falconer, the retiring president. And

in this fact, other similar institutions may find a useful hint. Put men in office who will work; men whose heart is in their work, and the whole membership will very soon become leavened with a spirit like unto that of the workers, with attendant satisfactory results.

And Pittsburg does not stand alone in this respect. We have before had, and are now having, in our own club here in New York a similar experience, and there are others.

Active presiding and other officers, active committeemen will maintain interest in any organization. It is the club that works, and where that work is just tintured with enough of the social element to mitigate the irksomeness of the task, that wins members; that is worthy of support, and that does far more for the benefit of the business than associations that exist in name only, and the labor of whose paid officials lies for the most part in the strenuous exercise connected with the drawing of their salaries.

We hope to see this commendable club activity continue, and would urge that every florist, who seeks to progress in his business, join his local florists' club, affiliate with his up-to-date brethren, and thus tangibly demonstrate his appreciation of their endeavor to furnish him with that which the payment of the annual dues is far from being an equivalent.

BOOKS RECEIVED.

SUCCESSFUL FRUIT CULTURE, by Samuel T. Maynard, formerly professor of horticulture at the Massachusetts Agricultural College. Illustrated, 5x7 inches, 265 pages, cloth. Publishers, Orange Judd Company, New York.

This book is written from the standpoint of the practical fruit grower, who is striving to make his business profitable by growing the best fruit possible at the least cost. It is up-to-date in every particular, and covers the entire practice of fruit culture. It gives in plain, practical language, descriptions of such varieties as are most in demand in our markets, and the methods practiced by the most successful cultivators of many sections of the country. Separate chapters are devoted to the apple, pear, peach, apricot, and nectarine; plum, cherry, quince, mulberry, grape, blackberry, raspberry, cranberry, blueberry, huckleberry, subtropical fruits, propagation of fruit trees and plants, fruit growing under glass, insect pests, and fungous diseases. The chapter on the apple is particularly comprehensive and complete. The chapter on forcing peaches, grapes, strawberries, and other fruits, describes the most modern and successful methods of the present day.

Copies of the book can be obtained from The Florists' Exchange; price, postpaid, \$1.

FARM GRASSES OF THE UNITED STATES, by W. J. Spillman, agronomist United States Department of Agriculture. Illustrated, 5x7 inches, 248 pages, cloth. Publishers, Orange Judd Company.

Professor Spillman has given us in this volume an intensely practical discussion of the farm grasses of the United States of America. The book is essentially a resume of the experience of farmers in the United States with grasses. While the grasses have heretofore played an important part in the agriculture of the northeastern part of the country only, Professor Spillman has given very careful consideration to grass problems in other sections as well, particularly in the cotton-growing States, where grass culture has been neglected. When we consider the broad field encompassed it is safe to say that no other work on grasses has covered the ground so thoroughly. No attempt has been made to give a connected account of all the grasses known in this country, but the aim has been rather to give just the information which a farmer wants about all those grasses that have an actual standing on American farms. The whole subject is considered entirely from the standpoint of the farmer. One of the most valuable features of the book is the maps showing, at a glance, the distribution of every important grass in the United States; and the reasons for the peculiarities in this distribution are fully brought out. This book can be obtained from the publishers of The Florists' Exchange; price, postpaid, \$1.

Society of American Florists and Ornamental Horticulturists.

Department of Plant Registration.

A. E. Mauff, Denver, Colo., submits for registration *Nephrolepis Bostoniensis* Mauffii; a sport from *Nephrolepis Bostoniensis*. Described as a stronger grower, the fronds arching and forming a double curve; pinnae strikingly undulating.

New Plants.

Introducers of new varieties of plants, home-raised or imported, whether members of the society or not, are earnestly requested to send to the secretary a list giving name, origin and description of such new plants, to be disseminated during 1905, for the purpose of record in the annual report of the society.

WM. J. STEWART, Secretary.
11 Hamilton Place, Boston, Mass.

Obituary

Clarence Hitchcock.

Clarence Hitchcock died at Blythedale, Md., on the 14th inst., in his 23d year, after a lingering illness. Mr. Hitchcock had for two years past been conducting the Blythedale Seed Laboratory.

Ferdinand Mangold.

Ferdinand Mangold, for thirty-eight years the superintendent of Lyndhurst, near Irvington, N. Y., the estate of Jay Gould, was buried in Sleepy Hollow Cemetery, Tarrytown, N. Y., on Tuesday, February 21. Many flowers were sent by the Gould family. Mr. Mangold was a favorite with Jay Gould, and it was under his supervision that the large conservatories at Lyndhurst were built. Mr. Mangold was born in Germany 77 years ago, came to this country when a young man, and spent most of his life at Lyndhurst. He celebrated his golden wedding last Fall.

John Spalding.

John Spalding died at his home in New London, Conn., February 17, at the advanced age of 91 years. Mr. Spalding had been in failing health for several weeks and passed away peacefully. In his death New London has lost one of her oldest citizens and one whose business extends farthest back in age. He started in business over forty years ago, and during all that time he was held in respect and admiration by all who came in contact with him, as he was strictly honorable in all his dealings, willing to keep his word, even at personal loss, and always to be depended upon when anything requiring intelligence and good judgment was under discussion. For many years Mr. Spalding was the leading florist in Connecticut, and was known all over the country. During the early years of the S. A. F. he was an active member of that body, being vice-president for Connecticut and always attending the conventions.

Mr. Spalding was born on Christmas Day, 1813, at Woodside, Perthshire, Scotland. His father, Thomas Spalding, was a famous gardener of that region, and, like his son, lived to the ripe old age of 91 years. The family originally came from the town of Spalding in Lincolnshire, and were undoubtedly Anglo-Saxons or Flemings, the physical characteristics of the race being faithfully perpetuated from generation to generation, and the name giving credence to this view. The family from which John Spalding comes was that of Andrew Spalding, of Berwick-on-Tweed, who must have been of Scottish mixture or sympathies, for he admitted into the fortress Robert Bruce in the war with Edward, and was rewarded by the lands of Ashantilly, Perthshire, where the Spaldings are numerous and are noted for their long, pure lives and love of nature.

John Spalding received his early training from his father, but started out for himself early in life, going first to Ireland, where he remained some years. Afterward, he went to England, but subsequently returned to Ireland to take a position in the famous Botanical Gardens at Dublin. He had worked on such estates as that of the Marquis of Anglesey, Sir Robert Shaw, Lord Dunsany and Lord Wharmliffe. When in Ireland he married Miss Page, a daughter of an English gardener. After some fifteen years spent in Ireland, Mr. Spalding, with his wife, came to America and located in Poughkeepsie, N. Y., later removing to Saybrook, Conn., to take charge of the estate of Mr. Allyn, a well known man at the time. Mr. Spalding decided to start in business for himself, so he removed to New London, Conn., and bought the Starr greenhouses on the Neck, but later purchased the property on Main street, where the establishment now stands. In those days trade was slight and only the wealthy could indulge in flowers, but Mr. Spalding, by his grit and perseverance, built up a good business and his greenhouses soon became famous. His worst blow while struggling along was the death of his wife, unexpectedly, when she was his best helpmate and counsellor. Personal sickness next assailed him, but he stuck steadfast in a bitter fight, and conquered. As time went on Mr. Spalding extended his business, adding more glass from time to time, but never extending into a modern wholesale establishment. His business was purely a local retail trade. Among his pupils are W. H. Elliott, of Brighton, Mass., well known all over the country as the largest asparagus grower and one of the largest rose growers, and Edward W. Clark, a nephew of his first wife, who conducts a florist business in New London.

Mr. Spalding never took a prominent part in politics or city affairs, although he was active in the welfare of his adopted city. He never cared for wealth, and he always had the best in amusement, sustenance and reading, and took many pleasure trips with his wife, whom he married about thirty years ago, and who was a Miss Schofield of Poughkeepsie. He was very fond of reading, and his mind was a literal storehouse of information, history, poetry, science, botany, geology and entomology. About four years ago Mr.

Spalding was struck with falling eyesight and retired from active business, his establishment being rented to S. J. Reuter, of Westerly, R. I., who operates it to-day. Some two years ago Mr. Spalding became totally blind, but he resigned himself to his fate and no word of complaint escaped him. He was bright and cheerful, fond of jest and story, keenly interested up to the day before his death in all the events of the world. Cared for by his wife, gentle and true as himself, his hope was that together they might enter the Kingdom. He wished no one to mourn him, for he felt no fear, and we can feel assured he has received the reward of the true man he had always lived.

J. W. D.

OUR READERS' VIEWS

California Carnation Cuttings.

Editor Florists' Exchange:

I have noticed several times of late, in the different trade papers, that people have had trouble with carnation cuttings bought in California. Two years ago I bought about 1,000 cuttings of different varieties, but did not have good luck with them. They seemed to have been taken from too hard wood, and from the tops of the flowering shoots, for they would throw up a bud-stalk, and when it was cut off the plant would not do anything at all. I did not have such results from plants bought nearer home.

WILL AUSTIN.



THE LATE JOHN SPALDING

Stem Rot in Carnations.

Editor Florists' Exchange:

Given, a carnation plant in the field, attacked with stem rot, I find that in my soil the fungus will slowly, sometimes very slowly, but always surely, creep from plant to plant, the first plant attacked being at the center of infection. Planting a row of potatoes in the stiff soil of Staten Island with barnyard manure, and right alongside a row with wood ashes, the manured row will surely produce a splendid crop of scab, while in the ashed row every tuber will be bright and without blemish. Now, why should not wood ashes have a similar effect; that is, checking stem rot, in my soil? Are the fungi of the potato, and the fungi of stem rot, of the same family; first cousins, perhaps? Or, may it be that the calcium and potash will destroy the vitality of the spores in either case? Or, may it be the alkali lime, producing a copious supply of soluble silicic acid, enables the plants to put on a heavy armor of quartz, impregnable to the attack of the spores? (Vide, Mr. C. L. Allen, re lime and the stem rot of cabbage, also a very noticeable stiffening of carnation stems, after an application of lime to the soil.) Qu'en s'abe?

All I know, Mr. Editor, is that lime and potash, in combination, have knocked out stem rot in my soil these last three years, and said soil is a very light sandy loam, from 1½ to 3 feet in depth, underlaid with clean sand and deficient in lime (Government report), and in potash, shown by the poor growth of deciduous trees, and their quick response to potash. Nevertheless, it suits Dianthus caryophyllus, and with this soil, in the hands of an expert grower, 4-inch Prosperity and 3-inch Mrs. Lawson should be the rule and not the exception.

Long Island.

C. B. D.

Hollyhocks.

Editor Florists' Exchange:

In No. 3 of The Florists' Exchange I notice an article on hollyhocks. I beg to say that I grow hollyhocks very extensively for seed, and can endorse what your correspondent says in his article. But I am greatly surprised that he does not mention anything about the new type of hollyhocks, offered some years ago by Messrs. Peter Henderson & Co. I dare say this new type will create a revolution in the cultivation of hollyhocks. It is not necessary to trouble with two years' cultivation to have a fine display of hollyhocks; but this new strain, named "Hybrid Everblooming Hollyhocks," can really be treated like other annuals. When the seeds are sown by the end of March, in a warm or hot bed, the young plants planted out in the open ground about the beginning of May, they will commence to bloom about the end of July. It is a fact worthy of mention that there was not a single plant among my thousands of plants of hollyhocks that was not in bloom by the end of August.

I have given great care and attention to this valuable strain of hollyhocks, to improve it in every way, so that I trust that this new type will in a short time be just as grand in form, size and doubleness of the flowers as the very best of the older biennial strain. The rapid growth of the plants will prove to be the very best antidote against the hollyhock fungus.

Germany.

FREDERICK ROEMER.

The Boston Flower Show.

Editor Florists' Exchange:

Your usually amiable Boston correspondent must have been feeling decidedly out of sorts when he penned the introductory paragraph of his report of the late Boston show. While we sympathize with some of the sentiments, more especially his regret that the show lasted so short a time, some of his remarks fall so wide of the mark that we question if he really intended us to believe that they were more than an effort to make the committee referred to smile.

The principal reason the show closed so early was to allow commercial exhibitors to remove their flowers, and in some cases dispose of them ere going home; also to allow the exhibitors of plants—who were all private persons and whose exhibits we see Mr. Duncan did not even mention. [He did, but they were omitted for want of space.—Ed.]—get their plants home in decent season. Another year, no doubt, it would be a capital idea to keep this show open until Sunday night.

Readers would infer from "for to hold back awards from the public until within an hour of closing time is rather unfair to both the visitors and the exhibitors," that the committee on awards purposely kept back the premium cards. As a matter of fact, some exhibits were not ready at 11 o'clock, and in courtesy to some of these commercial exhibitors judging was a little late in starting. As soon as it was completed, the premium cards were written out and placed on the successful exhibits. We would remind your correspondent that the committee on awards had considerable work to do outside of carnations, as he would have found out had he served as one of its members.

We next read "that the system of naming exhibits, judging and again naming the successful exhibits by the committee of the Massachusetts Horticultural Society is peculiar to itself." Will he, pray, tell us what is "peculiar" about the correct naming of exhibits? Does he prefer them nameless? What is wrong and "peculiar" with the system of judging? What does he find objectionable about the premium cards? Would he prefer to have a little gum shn-plaster pasted on the exhibitors' cards a la cattle shows? If we did so, would it not more than warrant his closing assertion, one worthy of "Job" himself, that the system is "so antiquated that it cannot hold pace with the up-to-date methods of twentieth century horticulture."

Come, Brother Duncan, you must have been badly rattled when you wrote this string of denunciatory adjectives. The exhibition and flower committees are trying in their humble way to be up-to-date; they naturally expect more kicks than bouquets. They want your suggestions, and those of any other in or out of the society, and will welcome such at all times. Do not be too carried away with the growly remarks of one of the "hard-working commercial men." Remember that the private growers work just as hard and contribute at least nine-tenths of the flowers and plants seen at our Boston shows, and are just as worthy of your consideration. Please tell us where the thoroughly "up-to-date twentieth century" horticultural society is to be found; we want to study it up. When any vacancy occurs on our prize or exhibition committee we will take pleasure in presenting your name for favorable consideration, as a slight token of our high estimation of your laudable efforts to keep us "up-to-date," and showing up our delinquencies.

W. N. CRAIG.

P. J. Lynch, secretary and treasurer of the Dingee & Conard Co., West Grove, Pa., will deliver a paper on "Some Notes on the Newer Roses," at the meeting of the Florists' Club of Philadelphia, to be held Tuesday evening, March 7, 1905.

EDWIN LONSDALE, Secretary.

AMONG THE GROWERS.

John J. Fee, Jamaica Plain, Mass.

The present season has been one of the best, so far, ever known in the neighborhood of Boston, among growers of all kinds of bulbous stock. There are not many growers hereabouts who devote their whole establishments to bulb growing, but of those who do it is surprising to see what an enormous quantity of material can be taken out of a small space. This is accomplished by the comparatively short time it takes to force a crop of blooms. One of the most successful growers of bulbous stock is John J. Fee, of Jamaica Plain, who has a few small houses that would be lost if they were all placed inside a modern 100-foot house. Mr. Fee, nevertheless, has a unique establishment, and forces annually some 300,000 bulbs. While a few are grown to sell as pot plants, or in pans, the majority are cultivated for cutting purposes. At the time of our visit one of these small houses was a mass of bloom, it being just prime with the first crop of tulips of the season. The variety was La Reine, which is one of the finest and most popular kinds for forcing. Other varieties grown in quantity are Le Matelas, Vermillion Brilliant, Keizerskroon, Rose Luisante and Coleur de Cardinal. Narcissus this year have come along more slowly than formerly, perhaps on account of the condition of the bulbs when ripened. The varieties mostly grown by Mr. Fee are Golden Spur and Von Sion, although Sir Watkin, Sulphur Phoenix, Horsfieldi and a few others are grown in smaller quantities. All these bulbs for cutting are grown in flats, and it is surprising to see how space can be utilized while these plants are in their different stages of growth. *Lilium longiflorum* are grown in limited quantities, not enough space being available for them; and Spanish irises are grown in moderate lots. A pit covered with leaves is yet largely filled with unstarted bulbs, so that there are many to draw from until the coming of the outdoor crops.

During the Summer season Mr. Fee fills up his houses with chrysanthemums, and gets a good crop of these blooms until his space is again required for his first batch of bulbs.

E. Sutermeister, Readville, Mass.

Out of the city a few miles, on the Canton & Stoughton Electric Railway, at the foot almost of the Blue Hills, is the establishment of E. Sutermeister, another establishment unique for its size and the enormous quantity of material that is carried to market from it. At this place a great deal, in fact the largest part of the products, is grown in pans or pots. Some idea may be gained of the extent of the business when it is said that the number of pans of one variety is 1,500 and many others are grown in like proportion. There are a great many flats grown for

cutting of such varieties of narcissus as Emperor, Golden Spur and Double Von Sion. Miniature hyacinths are cultivated extensively in 4 and 5-inch pots. *L'Innocence* is considered the best early white, and *Mme. Van der Hoop* for a late variety. Mr. Sutermeister forces annually some 400,000 bulbs, which, when it is taken into consideration that a large proportion of these are sold as pot plants, will demonstrate that there is a great deal of work to be done before they reach the buyer in the florist's store. *Astilbes* are quite largely grown in one house, both for cut flowers and for pot plants. The varieties *Japonica* and *compacta* are mostly used for pot plants, while *astilboides floribunda* and *superba* are considered the best for cutting purposes. A specialty



NARCISSUS DOUBLE VON SION
Grower, John J. Fee, Jamaica Plain, Mass.

with Mr. Sutermeister is the hardy English primrose. Perhaps we are partial to this dear old plant, but we have often wondered why it is not more largely grown. It is not difficult to handle, and the blooms realize good prices.

As soon as the bulb-forcing season is over, Mr. Sutermeister fills up his houses with a general assortment of bedding plants and seedlings of all kinds for Summer planting. A large business is done in such Spring plants as double daisies and forget-me-nots, and later on in the season chrysanthemums are grown for the Fall trade, and such plants as Jerusalem cherries for the Christmas season.

J. W. DUNCAN.



HOUSE OF NARCISSUS.
Grower, John J. Fee, Jamaica Plain, Mass.

Tales of a Traveler.

The Carnation in California.

The article which it is my intention to write on the subject of the carnation in California is, perhaps, a matter of opinion and might more properly be termed, "An Impression Which the California Carnation Makes on an Eastern Grower." But, not desiring to string the title out, and disliking the California idea of stringing things generally, I refrain. Now, in the first place, I trust those who read this will give me credit of bearing malice toward none, for I have been cordially treated by those of the trade here in the land beyond the West, with whom I have come in contact; and I desire to injure no one, but merely wish to present to the readers of *The Florists' Exchange* the carnation situation in California as I have seen it, and to draw a few conclusions from what I have observed regarding the carnation generally, as it has been my fortune to see it on the Western coast, without reference to any individual grower.

There are two classes of people in California—those who can get back East, and those who cannot get back to the land that gave them birth. These classes are distinct, and the way you look at California depends on which of these classes you belong to. We may again subdivide these, and among those who can get back we find the pleasure-seeking tourist, and those who cater to the tourist; for if the tourist have not unlimited means, in a short time he descends to the class that cannot get back, and becomes a native. The one who caters to the tourist can always get back, for he gets whatever of the currency of the realm the tourist may have had about him when he landed here. There are also two classes of people among those who cannot get back, and here we find the hard working, industrious farmer, who owns his farm and is content; for here on his farm is his all and he must stay with it. Again, there is the man who, under the impression that the orange business meant easy wealth invested his all in his grove, and he now has become a fixture. Of these people I have nothing to say, but wish to draw your attention to the class who are the making of the State, or, rather, of the southern part of California, namely, the tourist.

We find under the head of tourist a little of everything, and the view which the tourist takes of things is, as a general rule, far from correct. It was my good fortune to glide over the marine gardens of Catalina in the glass bottom boats which money will provide, when the water was far from clear, and the garden was largely imaginative. So the tourist in his glass bottom boat, but with clouded glass, passes over this country. They see and yet they imagine more. The carnations in the stores appeal to them, and because they see some very good blooms and because they see the fields of carnations, they imagine that the flowers are the result of the beautiful California climate, and that nature will do here what expert cultivation will do in the East. No thoughts of the greenhouses beyond the hill enter their mind; for will not anything grow in California?

That is, I believe, the tourist idea of carnation culture in this section. They write home of the wonderful carnations grown in the fields about Los Angeles, where the earth is one garden; but beneath the surface and hidden from them is the hard working gardener who tells a different story. Back of the tourist to make good his story is the real-estate man, with his corner on the market and a new town to sell out to those who believe in these wonders and the superficial yarns of those who never understood conditions in their native State, and who cannot, therefore, be expected to understand them here.

There are acres of carnations in the State being grown in the open, and in proportion to the acreage is the number of poor, inferior quality bloom in the market. The picture which those who do not know receive from those who never did know is a beautiful one, but the facts are not in keeping with the reality.

Go through California where you may at the present time and you will find that any carnation which would be able to stand in competition in any markets east of the Rockies, is grown under glass and grown much as the carnation is grown in the East. From the standpoint of a lover of the carnation and an eastern grower, I must characterize the story which we so commonly hear of the beauties of the field carnation as a modern fable.

Consider for a moment the market to which Southern California growers cater. Every one who lives here for any length of time has plenty of flowers at home. That is, except in the cities, and the cities of Southern California are limited in number. A recent newspaper article, in speaking of the heavy rainfall which has come to the section, makes the statement that it will do the country almost as much good as the tourist crop. This is a clear statement of the facts, and there is no crop so good and no crop more reliable than the tourist crop. They are catered to by all, and the motto, which should be well known, for it is fulfilled everywhere, "Do them to-day, for they will be gone to-morrow," is carried out conscientiously. As a rule, then, the trade is transient and the prices are well up when we consider what is offered to the public. That same imagination is at work all the time. They have entered a land of flowers and they must have them.

There are several varieties which are grown heavily

cut-of-doors, and among these a white variety, Los Angeles, so-called, seems to be a leader, but only in the quantity which we see brought in. A brick red called Red Los Angeles also fills space; and a light pink, Corbett, shares the humiliation with them. Contrasting the conditions of the carnations in the greenhouses, you will find that practically every variety of merit which is well grown in the greenhouse here is of eastern origin, Enchantress, Mrs. Thomas W. Lawson, Mrs. Patten, Prosperity, Estelle, Harlowarden, Governor Wolcott, Queen Louise, White Lawson, Harry Penn and Governor Roosevelt being most generally grown. And these varieties do well here. At present there have been heavy rains, and the outdoor flowers are poorer than usual, but, generally speaking, the outdoor stock sells at one dollar per dozen, while the indoor is more than abundant, at 25 cents per twelve, for specimens.

I have made the matter perhaps more plain than I could have done, but I do not wish to be misunderstood. It takes capital to go into business anywhere, and conditions here require it even as elsewhere, if not more so. But good carnations are appreciated, and those who buy flowers in Los Angeles and vicinity appreciate good stock, even if they do imagine things. The tendency is to grow better flowers, and in the future will find more good carnations and fewer poor ones than there are to-day. But the man who grows them here must come here expecting to meet just such difficulties as he would elsewhere, and come with a determination to grow stock as it should be grown, and not expecting to reap the harvest after nature has done the work for him. As we go northward we find, as a rule, better carnations; and in San Francisco the carnation of commerce differs from the carnation as we know it east of very little. We find the same varieties, and these are grown much as they are grown east. Some of the varieties are of California origin, but only a few, and among these are notably those which J. H. Sieners & Company have brought into prominence. The carnation has its lovers here as elsewhere, and L. J. Anton, of San Francisco, has done and is doing some good work in cross-breeding. I saw a very fine crimson seedling, which measured nearly five inches, one of his originations. He is not a florist by profession, however, and his work has been with him a pastime or the love of the divine flower.

Taking into consideration all the carnations which have been seen in the State, there is a difference in the plant growth when we compare them with what is produced east. They remind me of hot weather carnations in New England, when the plants throw very few side cuttings, and build up a large base. The growth is harder and more wiry.

This brings me to a consideration of the California carnation cuttings for the eastern trade, and as I have read so much regarding them in the trade papers of late, I will enlarge on this subject a trifle. The cutting which a carnation makes in this climate I consider far from the ideal one from which to grow a good plant. In the first place, a base cutting I do not believe will produce as good a plant, nor will the plant from it produce as many blooms, as will be apparent from a plant grown from a cutting taken from the side of a flowering stem. The tendency of the base cutting is toward grass, and, as I have said, the carnation in California produces few good side cuttings. Then, again, they are bony and root slowly, and are a long time starting in to make growth. The growing season for field stock here could be all the year round if a good sizeable plant cannot be reduced in a shorter time, while a few months must suffice in the East. Therefore, East we must have stock which will keep moving; stock that is not hard, and cuttings in which the sap runs freely. Such cuttings as are needed in the East I have not found here, although they may be here. Then, once again, there are too many old plants here, where the carnation will live in the field for a couple of years and produce cuttings, and the cuttings from an old plant are sadly lacking in vitality and would require a different treatment. Right here I believe we have the cause of so much trouble which those who have had carnation cuttings from this State have experienced. To be healthy, the sap must flow and the cutting must not become hard and bony. When the cutting becomes hard, it is weakened in vitality, and loses its power to withstand disease. The climate alone is responsible for the hardness of the cuttings, and when in this condition they are apt to be a disappointment to those who count on them for good plants the following year. The upbuilding of the carnation depends on the elimination of those varieties which have constitutional diseases, such as dry rot, and also on the elimination of those conditions which tend to weaken and render susceptible to disease the varieties which would otherwise be immune to the attacks of fungus. Summing up the carnation of California we find that the best carnations are of eastern origin. That the carnation cutting produced here is lacking in many essential points, and the true situation in regard to what is produced is known only to those who have made a study of conditions here, and this condition is sadly misunderstood by the general public.

To the eastern grower I would say, buy where you know stock is good, and the nearer home you buy it, no matter what the price, the better the result will be.

W. R. PIERSOON.

Greenhouse Stock Frozen.

BATTLE CREEK, MICH.—On February 14 the thermometer registered 22 degrees below zero here. Burt's greenhouses suffered a loss of from \$1,500 to \$2,000, all the valuable plants having frozen beyond recovery. Fire recently destroyed half of Burt's greenhouses, making the loss more keenly felt.

Dicentras.

Although *Dicentra spectabilis*, bleeding heart, or Dutchman's breeches, as it is variously called, is extremely popular, it does not seem to have made much headway with the florists in America as a forcing plant. It would be hard to find a more graceful subject as a cut flower. There is some little difficulty in connection with the forcing, and perhaps this has counted against the plant being used for this purpose more extensively. Judging from a trial lot potted up and forced last year, there does not appear to be any difficulty that would not be soon overcome by those interested enough to make the attempt. The one essential seems to be that it must be done slowly,



TULIP LA REINE
Grower, John J. Fee, Jamaica Plain, Mass.

in a very light greenhouse, with the plants placed as near the glass as possible, or a percentage of the shoots will become blind.

As a border plant the dicentra needs no recommendation, being such a general favorite, and, like most introductions from Japan, it makes a satisfactory garden plant. Loose, deep, rather sandy soil is the most suitable; and if partial shade can be given during the hot Summer months, so much the better. Unfortunately, when planted in some positions, while the plants may be all right the first year, they are weaker the second, and eventually vanish. This is especially true of imported plants. This condition is most likely to arise from one or the other of two causes—the ground being too wet and heavy, or too dry. If the former, the plant fails to make any additional roots, and the tops are made at the expense of the ones the plants already have, which so weakens the plant that it will very likely succumb the following Winter. If the ground is too dry, the tops, which are of a very soft texture, will be burned up by the sun before they have fulfilled their functions

and helped to produce the thick fleshy roots in which the food supply is stored for the plant to draw from when producing its flowers the following season.

While the roots are very brittle and the whole plant is of rather a succulent texture, the actual cold does not seem to injure them in the least, providing they are not actually exposed to the weather. Out of many hundreds of imported roots, planted as soon as they arrive in the Fall, none have been lost from the cold, although frozen solid in the ground. They were, however, always planted in well-drained, sandy soil and mulched with manure.

There are several native sorts of dicentra; the best is *D. eximia*, which is an excellent subject for a shady moist position. *D. cucullaria* and *canadensis* are found growing in the moist, rich woods, but are too delicate and frail to be of much value as garden plants.

Adlumia ciliata, while not a dicentra, is very closely allied, and can hardly be classed with the herbaceous perennials, as it is more biennial in its nature; but it is well worthy of note, as it is one of the daintiest little vines in existence. It is a wonder this plant has not found its way into the florist's favor, it is so graceful and pretty both in foliage and flower. Rather a moist situation is best suited to it, and if protected from the winds so much the better. There are very often positions in small yards, such as are common in towns, that are just suited to it, and where it will thrive and quickly cover a low fence with a delicate tracery of green. Seed sown in Spring will flower the first year.

ERNEST HEMMING.

The Retail Trade

Doings of Washington (D. C.) Florists.

President and Mrs. Roosevelt held their last official reception Thursday, which was given to the Army and Navy. The bouquets carried by the receiving party were made of Bride and Bridesmaid roses, Enchantress carnations, lily of the valley and Roman hyacinths, mixed with Princess of Wales violets. The tables were decorated with individual plants of *Cineraria stellata*. Mayberry & Hoover had a large wedding decoration this week. The parlors were profusely decorated with palms and *Lilium Harrisii*. The pieces on the breakfast table were made of Bridesmaid roses, with pink ribbons attached from the centerpieces to each of the plates; with the names of the parties, on cards, who were to occupy the seats opposite. This firm has had quite a run on small palms, having disposed of 3,500 Kentias and 1,500 *Areca lutescens* in 3-inch pots this week. George Cook had the decoration for the dinner given by Senator Depew last Friday, when Bridesmaid roses, white lily, and *Adiantum Farleyense* were used extensively. He also had the decoration at the Slater's mansion; the seven centerpieces, which were each 4 ft. by 2 ft. oval, were filled with azalea plants and *Farleyense* fern. Gude Brothers had two club dinners on this week, when they made a fine display of their home-grown American Beauty. Small & Sons have commenced to decorate the Pension Office building for the inaugural ball; they are endeavoring to surpass all their previous efforts in this direction. F. H. Kramer had quite a run on St. Valentine's day; he made a specialty of violets, at a low price, and succeeded in disposing of 5,000. This was done as an advertisement, and, judging from the crowds, it was a grand success. George Field is cutting some extra fine blooms from his Thomas Field rose, just now. This variety is quite a success in Washington.

M. C.



HOUSE OF TULIP LA REINE
Grower, John J. Fee, Jamaica Plain, Mass.

CLASSIFIED ADVERTISEMENTS

Cash with Order

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.
Our charge is 10 cts. per line (7 words to the line), set solid, without display.
Display advertisements in these columns 15 cents per line; count 14 lines to the inch.
No advertisement taken for less than 50 cents (35 words), except Situations Wanted.
(If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.)

STOCK FOR SALE

STOCKS shipped in bulk if ordered. Colors, Princess Alice, pink, violet, \$2.00 per 100, cash, S. E. Boyden, Holden, Mass.
STRAWBERRY PLANTS—Forty varieties, \$2.00 per 100; CANNAS, dormant roots, \$10.00 per 100. Onarga Nursery, Onarga, Ill.
CARNATIONS and violets, unrooted cuttings; all the leading bread-and-butter kinds; five different kinds of violets. My stock is all right in every particular. Write for varieties and prices. Paul Thomson, West Hartford, Conn.
ROOTED CARNATION CUTTINGS—Prices quoted per 100, per 1000. White: Queen, \$2.00, \$17.00; Boston Market, \$2.00, \$17.00; Queen Louise, \$1.25, \$10.00; Glacier, \$1.25, \$10.00; Wolcott, \$2.00, \$17.00. Variegated: Mrs. Patten, \$4.00, \$30.00; Mrs. Bratt, \$2.00, \$15.00. Red: Crane, \$1.25, \$12.00; Challenger, \$1.25, \$10.00; Flamingo, \$5.00. Pink: Nelson, \$1.25, \$12.00; Jeost, \$1.25, \$10.00; Euchantress, \$2.50, \$25.00. Cash with order, please. Simco Brothers, Wilmington, Del.

READY NOW 2,000 HARRISII EASTER LILIES

1½ to 4 ft. high, with fine foliage.
10 cents per bud or flower, 10 pot or cut.

CHRISTIAN DEHN
178-80 Basking St., Saratoga Sp'gs, N.Y.
Mention the Florists' Exchange when writing.

STOCK WANTED

WANTED—10,000 two-year strong Colossal asparagus roots. Address H. Y., care Florists' Exchange.
WANTED, 2,000 variegated Vinca, and 500 green Vinca, field-grown, not potted. Quote lowest price for cash. Alexander Mead & Son, 349 Lake Ave., Greenwich, Conn.
WANTED—Experienced maker-up and salesman; good references and city experience required; good pay and steady position to right man. Le Mout, 436 Fourth Ave., New York City.

SITUATIONS WANTED

SITUATION wanted by young man for general greenhouse work. Address H. K., care Florists' Exchange.
YOUNG MAN, 11 years in the trade, wants position with grower of general stock; good references. State wages. Address D. B., care Florists' Exchange.
STEADY, sober, young man, 20, wants steady position, 5 years' experience general greenhouse work. Address Witefeld Frasse, 268 Market St., Newark, N. J.
YOUNG LADY wishes steady position; seven years' experience; good designer; city reference; Eastern states preferred. Address H. A., care Florists' Exchange.
POSITION wanted by young man as assistant, experienced in greenhouses as well as outdoors; strictly sober and willing; private place preferred. Address H. G., care Florists' Exchange.
POSITION wanted as working foreman as grower of good violets and pot plants; years of experience and good references. State terms. Address H. H., care Florists' Exchange.
SITUATION wanted as head gardener on a good private place by Scandinavian; age 23, single; life experience in Sweden, Germany, England and America. Address H. Z., care Florists' Exchange.
SITUATION wanted by Englishman as gardener or foreman, on private place; experienced in grapes, carnations and general line; nothing but first-class place wanted. Address H. J., care Florists' Exchange.
WANTED—By American, steady position as gardener and florist, 20 years' experience; one and one-half years in charge of present place; good references. Address H. E., care Florists' Exchange.

SITUATIONS WANTED

SITUATION wanted as rose grower, 12 years' first-class experience growing roses and carnations. Refer to Alex. Montgomery, Webon Conservatories, Natick, Mass. Address H. D., care Florists' Exchange.
SITUATION wanted by German (33) in retail florist store, life experience, decorator, designer, etc.; able to take charge; best references (last position 3 years). Address E. B., Box 245, Spencer, Mass.
GARDENER (36) married, 22 years' experience in all branches; up-to-date under glass and outdoors, wishes position on gentleman's place. Best references. Fraok, care Samuel Untermyer, Esq., Yonkers, N. Y.
GARDENER, married, no children, age 41; experienced in all greenhouse work, forcing of fruits and vegetables; all outside departments on private place. References. Address Cameron, Seagutuck, Conn.
GARDENER, florist, single young man, strictly sober; life experience in all branches, wants steady position on place where good stock is grown; best of references. Please state wages. Florist, 527 Courtland Ave., New York.
GARDENER, Scotch, married, wants position; capable of taking charge of gentleman's place; life experience with fruits, flowers and vegetables; under glass and outside; good references. Address G. A., care Florists' Exchange.
SITUATION wanted by practical florist, with ten years' experience in American Beauty and tea roses; carnation, chrysanthemums, violets, palms, ferns and general stock. Good references. Address F. P., care Florists' Exchange.
SITUATION wanted as working foreman on commercial place where roses are grown principally; have had 18 years' experience; I am confident of giving satisfaction to anyone who may need same. A. R. Sampson, West Summit, N. J.
GARDENER, florist, foreman, 25 years' experience in all branches; greenhouses, hot beds, landscape, vegetables; can manage gentleman's place; handle men; widower, 43. Swiss-French. Address Gardner, 136 West 26th St., New York.
GARDENER-FLORIST, 33, married (one child), wants steady position; thoroughly understands all branches of gardening; 15 years' practical experience; good orchid grower, well recommended. Address Leabey, 37 East Liberty St., Waterbury, Conn.
POSITION wanted, Swed, 33, married, one child; strictly sober, life experience, roses, carnations, and general stock; good propagator and care of young stock; best of reference. Please state wages. Address H. C., care Florists' Exchange.
COMPETENT landscape gardener, good hand on rocky and rustic work, used to handling large gang of men; wants position with contractor, to take charge of contract; sober and reliable; state wages. Address F. M., care Keilly, 320 East 82d St., New York.
GARDENER, 40, with 24 years' practical experience in growing cut flowers, decorative and bedding plants, desires permanent position, or would rent small place 5 to 10 greenhouses near New York. Address with full particulars, Gardner, 70 Lott St., Flatbush, L. I., N. Y.
GARDENER and florist, 33, married, with 23 years' practical experience and highly recommended, desires situation on private place with greenhouses; four years as head gardener in last position. P. G. Box 435, Tarrytown, N. Y.
FIRST CLASS gardener and florist, German, married, age 31, wishes position as head gardener on private place with glass; 17 years' experience in all branches of horticulture and horticulture; five years in charge of present place; highest references. Address C. F. Hess, Danby, Vt.
STEADY position wanted as head gardener or working foreman on gentleman's or commercial place, by German, sober and reliable; 35, married, 2 children; 20 years' experience as grower of cut flowers, pot plants, vegetables, fruits, landscape gardening and hybridizing. Address H. F., care Florists' Exchange.
SITUATION wanted by German, 26 years of age; married, no family; on gentleman's private place; 10 years' experience with landscape work, pruning fruit trees, vegetables, greenhouse, cut flowers. Will be ready to take private place by March or April. Address M. Relpen, care James P. McQuaid, Upper Nyack, N. Y.
WANTED—By March 15, position with first-class commercial firm making a specialty of carnations and roses in vicinity of New York or Boston. Twenty years at the florist business; good private place would be accepted; best of references from present employer and others; state wages given. Address H. B., care Florists' Exchange.
AGENCY wanted. An office manager of several years' experience in Illinois, now permanently located in Florida, desires agency for Florida, east coast, for any article suitable to this climate and territory. Correspondence invited from any manufacturer who wishes to extend his trade in this direction. W. H. Lambert, 513 Magnolia St., Jacksonville, Fla.
SITUATION wanted. Gardener, 30 years' experience, married, no children; desires position; capable of taking charge of gentleman's place. Landscape gardening, fruit, vegetable, outside and under glass. Best references. Salary \$75 and cottage. Disengaged March 1st. Address C. N. H., care Dummet & Wagner, Mt. Vernon, N. Y.

HELP WANTED

WANTED—Two single men for general greenhouse work, cool experience necessary. Apply Chas. L. Stanley, Plainfield, N. J.
WANTED, at once, a rose grower; only those with experience need apply. E. G. Asmus Son, Closter, N. J.
MAN wanted in a small commercial place, one who understands general greenhouse work; single man preferred. Address Box 55, Port Jervis, N. Y.
WANTED—Two men for rapid pottling; must come prepared for work February 27; good wages right people. I. H. Eisenberg, 440 Alhert St., Long Island City.
WANTED—Young man for general greenhouse work; must have some experience; state experience and wages wanted. Address P. C. Co., Ltd., 504 Liberty Ave., Pittsburg, Pa.
WANTED, a man to take charge of planting and must be thoroughly experienced and capable of handling men. Address G. E., care Florists' Exchange.
WANTED—Specialist, to grow pot roses to perfection for the wholesale trade; there are 50,000 of best varieties in 4 to 7-inch pots. Unquestionable testimonials required. N. Studer, Wholesale Plant Grower, Washington, D. C.

WANTED—A bright single young man to work in a nursery; one who has had some experience; steady employment and good pay. Answer by letter only. F. Von Hoffmann, St. James Building, Broadway and 26th St., New York City.

WANTED—On commercial place, a young married man to come well recommended as a carnation grower; cottage on the place for the man to live in; call and see the place; permanent position to the right man. J. Sidenberg, Hempstead, L. I., N. Y.

WANTED, April 1, young man who understands planting and transplanting of trees, shrubs, and herbaceous plants, for general nursery and landscape work. State wages wanted and give reference. The West Side Nurseries, Worcester, Mass.

WANTED—At once, a practical working foreman to take charge of truck garden, hot beds, cold frames; must be honest, industrious, temperate and thoroughly experienced. References. Single man preferred. Two hundred sash and several acres for trucking. H. B. Thompson, Catsburg, Pa.

WANTED

A thoroughly experienced rose grower to take charge of a large plant.
A good opportunity for one at present employed looking for advancement. Good salary for right party. Give full particulars. All communications confidential.
Permanent, care of Florists' Exchange.

BUSINESS OPPORTUNITIES

FOR SALE—Up-to-date greenhouses near Boston, 9,000 feet, good location, fine retail trade. Address H. L., care Florists' Exchange.
FOR SALE, retail store in one of the largest cities. For particulars address G. G., care Florists' Exchange.
FOR SALE or lease, bargain, great electric city, boom town, 5 houses, 3,000 feet glass; fine location, estate to close. Address 755 Seventh St., Niagara Falls, N. Y.
FOR SALE, only florist business in town of 30,000, doing good business; cause ill-health to family; good climate. Apply to C. H. Kolle, Beaumont, Tex.
FOR SALE—Florists' business; small greenhouse, well stocked; only one in city of 7,000. If you want a good thing for little money, write Florist, 253 Woodstock Ave., Putnam, Conn.
WANTED—To make arrangements with growers to ship violets, roses and other cut flowers to us; also all kinds of pot plants for Atlantic City Market. Egg Harbor Cut Flower Co., Lewis K. Nags, Egg Harbor, N. J.
FOR SALE—The greenhouses, dwellings, and land is offered for sale in part or whole, at a sacrifice, to close the estate of the late Grove P. Rawson, Elmstrs, N. Y. Address, Eva J. Rawson, Administratrix.
A BARGAIN if sold at once; a range of four 17 x 150 ft. iron frame greenhouses with shed 20 x 114 ft., and about 5 acres of land, at Wood Ridge, N. J. Make an offer quick. Henry Berg, Orange Valley, N. J.
FOR SALE—Park Nursery, eleven greenhouses: two 20x100; five 12x60; three 20x80; one 20x80; all heated by hot water; four-inch pipes; Hitchings and Gurney heaters; four acres of land; a big bargain; \$3,000. Apply Jos. De Frech, Pottsville, Pa.
FOR RENT, 11,000 feet of glass, 35 miles from New York, \$500 for stock and good-will, and \$75 per month rent; about one acre of land; barn, horse and wagon; good wholesale and retail trade. Owner cannot attend to it. Address G. P., care Florists' Exchange.
FOR SALE—Three acres of nurseries, including 12,000 feet of glass, heated with hot water, fully stocked with palms, ferns and house plants; 24,000 feet of lath house; 5,000 smilax, 600 Asparagus plumosus, etc. The site is on the hood-ton street, twenty blocks from business section. For further particulars and price address Houston, Lock & Brown, 715 Braly building, Los Angeles, Cal.

BUSINESS OPPORTUNITIES

FOR SALE

Greenhouse establishment, 38,000 feet, fully stocked with carnations, roses and palms; finely situated in a New England metropolis; four trolley lines pass the door; good established trade; wholesale and retail.
\$4,000—A BIG BARGAIN
Address H. M., care Florists' Exchange.
FOR SALE—Having decided to retire from the greenhouse business, we are going to sell our entire plant consisting of 12,000 square feet of glass, all built new August; up-to-date, heated with a new steam boiler, complete for carrying on retail or wholesale business; two dwelling, barn, and all equipments for running a first class establishment; been established 12 years; no competition; elegant retail trade, plenty of land for enlarging. For particulars, address H. N., care Florists' Exchange.

MISCELLANEOUS WANTS

WANTED to rent, about 6,000 sq. ft. of glass, near New York or Philadelphia, suitable for rose-growing; with some land and house preferred. Please state terms. Address G. V., care Florists' Exchange.
WANTED TO PURCHASE, GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLORISTS' EXCHANGE.
WANTED TO BUY greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

MISCELLANEOUS

FOR SALE greenhouse glass, all sizes from 6x5 to 18x24. Write for lowest prices to "Glass," care Florists' Exchange.

FOR SALE

Greenhouse Material
Milled strictly of Louisiana Cypress. Will stand splice to order. Hot Bed Sash a specialty. Try V. E. Reich's Oxford Putty, specially made for greenhouse purposes. Estimates freely furnished for greenhouse and hot bed glass.
V. E. REICH, 1429 Metropolitan Avenue, Brooklyn, N. Y.

For Sale NO. 12 FURMAN STEAM BOILER

as good as new; has only been fired for two weeks. Cost \$600. Price \$200.
ROBERT SCOTT & SON
Sharon Hill, Del. Co., Pa.

FOUND!

A place where new and old material for the complete erection or repairing of

GREENHOUSES

can be procured in
Exchange for Cash

Economical florists get our prices on Glass, Boilers, Ventilating Apparatus, Fittings, Pipe, White Lead, Paint, Putty, Hot Bed Sash, Etc.
OLD GREENHOUSES BOUGHT.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.
References: Dun, Bradstreet, and Broadway Bank of Brooklyn.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)
JACKSON, MISS.—W. J. Brown, whose greenhouse plant was recently ruined by fire, contemplates organizing a stock company and engaging largely in the nursery and florist business.

Contents.

Table listing various articles and their page numbers, including American Carnation Society, Books Received, Canadian News, etc.

LIST OF ADVERTISERS

Table listing names of advertisers and their corresponding page numbers, such as Acheson L W, Allen J K, Amling E C, etc.

Table listing names of advertisers and their corresponding page numbers, such as Pierson A N, Pierson F A, Pierson F R Co, etc.

INDEX TO STOCK ADVERTISED

Table listing various plants, seeds, bulbs, and flowers with their respective page numbers, including Abutilon, Ageratum, Alternanthera, etc.

Cincinnati.

News Gittings. Sunday, February 19, one could see hundreds of people, just out of curiosity, crossing the Ohio river on the ice; to-day, Monday, the thermometer stands at 40 degrees, and the ice is breaking up very fast, so that the river men now seem more hopeful of saving their craft.

BOWLING.

NEW YORK.—The change of hour of meeting for the members of this club did not result in a very good attendance on Monday last, and it was decided to go back to the old plan of meeting at 7 p.m., commencing Monday, February 27. The following scores were made:

FLAMINGO

Now ready; Rooted Cuttings. \$6.00 per 100, \$50.00 per 1000. Cash with order from unknown parties. L. E. MARQUEE, SYRACUSE, N. Y.

CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY Window Glass. Painters' Supplies. 32 Washington Ave., Pittsburg, Pa. Mention the Florists' Exchange when writing.

HOTHOUSE GLASS

and GREENHOUSE PUTTY • Specialty. C. S. WEBER & CO. 10 Desbrosses St., New York. Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle. Price per crate. 1500 2 1/2 in. pots in crate \$4.88 120 7 in. pots in crate \$4.30 1500 2 1/2 in. pots in crate \$4.88 120 7 in. pots in crate \$4.30

CEMENT BENCHES NIAGARA CEMENT & CONCRETE CO. NORTH TONAWANDA, N. Y.

Mention the Florists' Exchange when writing.

SHEEP MANURE

Pulverized. Free from all Adulteration In Bags, \$18.00 per Ton Special price on car load lots in bulk ROBERT SIMPSON, Clifton, N. J. Mention the Florists' Exchange when writing.

MASTICA FOR Greenhouse Glazing USE IT NOW. F. O. PIERCE CO. 170 Fulton St., NEW YORK

Mention the Florists' Exchange when writing.

ESTAB. 1765 A.H. HEWES & CO. NO. CAMBRIDGE MASS L.I. CITY N.Y. CATALOGUE FREE

Mention the Florists' Exchange when writing.

POROUS PROPERLY PACKED THIN, LIGHT WEIGHT Of Strongest Clay Durability Assured. Syracuse Pottery Co., SYRACUSE, N. Y.

Mention the Florists' Exchange when writing.

75,000 SQUARE FEET GLASS SURFACE

The above figures represent commercial heating contracts already signed for the season of 1905. A sample copy of some of the letters on file at my office. LYONS FARMS, N. J., Feb. 1st, 1905. Mr. Wm. Lutton, Dear Sir:—I wish to state that I am well pleased with the heating of the two new carnation houses, that you installed for me last summer, the boiler works splendid, and is all that it is represented to be, I shall take great pleasure in recommending you to any persons contemplating heating work. Yours very truly, Wm. G. MULLER.

An opportunity to estimate on your proposed heating or repair work will be to your interest. Wm. H. LUTTON, Telephone 174 J, Bergen, West Side Ave. Station, Jersey City, N. J. Eastern Agent for FURMAN and KROESCHEL BOILERS. Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS THE WHILLDIN POTTERY COMPANY

PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y. Mention the Florists' Exchange when writing.

Is your eyesight becoming impaired looking for business? It is right at hand if you have the intuition to grasp it by using the advertising columns of THE FLORISTS' EXCHANGE.

ROSES

Cutting—Shipping—Marketing.

In order that the rose grower may have the very best results from his labor, it is imperative that the marketing end of the business be treated with the same care and supervision as is given the growing end, for however skillful he may be in the production of choice flowers, if they are not put on the market in as fine condition as when they are cut from the plants, the grower's efforts all go for naught.

After all possible care has been taken to grow good roses, their market value will be further enhanced if they are delivered into the hands of the wholesale dealer, or commission man, in the most perfect condition possible, and to neglect this feature in any way only tends to place the stock at a disadvantage in the market, and result in a monetary loss to the producer.

The cutting of the flowers is a very important matter, and should not be left to the care of boys or inexperienced men. The buds should be cut just as the petals begin to unfold, when the tip of the bud is ready for bursting and the outside petals have reached their color stage. If cut before that stage has been reached, they will not develop perfectly afterward; and if allowed to mature much further than that on the plants, they will continue to open after being cut and packed in the boxes so that they are not fit for much after they reach the dealer. It will thus be understood that there is a certain stage of the bud's growth at which it can be cut and its development arrested for the time being, and afterward, when it has been put in water and placed in a warm temperature, it will proceed in its growth until it reaches its full size, retaining its fragrance and freshness just as perfectly as if it had been allowed to remain on the plant until its growth was finished.

The cutting should be done in the early morning, and each bud should be cut with as long a stem as possible, without any cutting back of the old wood, though at least two eyes of the new wood must be spared, as this is necessary in order to keep the plants in vigorous health. Immediately after cutting, the flowers should be placed in deep water jars, where a goodly portion of the stems will be submerged, and the jars kept in a cool room—a room where the temperature remains anywhere between 40 and 45 degrees—and here they should remain until they are graded and packed ready for shipping, which will be done either in the evening or very early the following morning, according to the distance which they have to travel.

Before packing the flowers they must, of course, be sorted and graded, and to do this conveniently and according to the established rules for grading, a suitable bench or table must be provided in the packing room. The grading table must be covered with cloth or paper to prevent the flowers from getting bruised; and a scale of measurements should be marked on the table so that the grade to which each flower belongs can be told instantly by laying it over the measured distances. It should be remembered that the measurements do not include the flower, but the stem only; that the flower must be good to class it



Box No. 2—Containing 226 Roses, Showing the Ideal Method of Packing.

in any grade above a number two, and that, however long a stem any flower may have, if the head is not good, it might as well be cut shorter and put in with the number twos, as a long stem will never make a poor flower into a good one. The measuring marks on the table then, for all varieties excepting American Beauty, should be as follows, which is the standard adopted by Moore, Hentz & Nash, dealers, of New York. Make one at 6 inches, the next at 7 inches, the next at 10 inches, next at 16 inches, next at 18 inches, and the last one at 24 inches. Flowers with stems reaching over the furthest mark are specials; those 18 inches or over are fancies; those 16 inches or over are extras, those 10 or over are No. 1, those of 7 inches or over No. 2, and any under the 6-inch mark are No. 3. The measurements for American Beauty are: Specials 36 inches and over, fancies 25 to 35 inches, extras 20 to 24 inches, No. 1 15 to 19 inches, No. 2 10 to 14 inches, No. 3 5 to 9 inches, No. 4 anything shorter than 5 inches. These grades can be safely followed when shipping to any market, as they are a recognized standard.

The style of box used for shipping will have to depend a good deal upon the distance to be traveled, though in all cases the flowers should be in stout wooden boxes so that bruising or crushing will not result to the contents; and, although some growers use cardboard boxes for packing, such boxes are finally put, several together, into a stout wooden one, so that no damage from crushing can take place. We have had photographed two boxes of flowers, taken just after arrival at the warehouse of Moore, Hentz & Nash, New York, and these illustrations will serve to show how the flowers arrive in the market when properly packed. The boxes here shown are both of the same length—50 inches, and about 6 inches deep. One is 14 inches wide, while the other is 16 inches wide. These boxes are such as are generally used for all roses, excepting American Beauty, boxes for which have to be made longer on account of the greater length of stem they have to accommodate, though the methods of packing are the same.

With the roses all graded, the packing is then commenced. The box is first lined with paper. Newspapers are the best and the cheapest. A roll or wad of paper is laid across one end; the wad is for the purpose of laying the heads of the first row of flowers on, and requires to be no more than two or three inches wide and about two inches high. Special or fancy blooms are first put in; the heads are laid evenly and close together across the end in a straight row; this is followed by a second row, close up and between the flowers in the first row, but never on top of these; and so row after row is placed until the stems begin to touch the other end of the box. Then a piece of oiled paper is laid on, and the packing of next shorter grade commenced, continuing in this manner until the box is filled, the number three being the last put in, as they require but a few inches of room for the stems.

It will thus be seen that we have utilized every inch of space in the box, and each grade contained has ample room for the stems to lie straight. We

may observe here that if the boxes have a long distance to travel and are likely to be handled roughly and thrown on their ends, it is a good plan to let the first few rows of flowers put in be of the shortest grades; then if any are bruised by being jammed against the end of the box, the loss would be smaller than if the specials were bruised.

To give an idea of the quantity carried in such boxes as we are describing, we may say that box No. 1 held 10 fancies, 18 extras, 23 No. 1, 20 No. 2, and 300 No. 3, a total of 376. This box had been shipped at 2 p.m. on Tuesday and was photographed at 8 a.m. the following morning, and the flowers were perfectly fresh. Box No. 2 contained 43 fancies, 73 extras, 49 No. 1, 17 No. 2, and 44 No. 3, a total of 226 flowers. It had traveled all night in the overland express from Madison, N. J., and the flowers were all in perfect condition.

In each box is enclosed a slip of paper, stating just what the contents are. For the convenience of both grower and dealer a printed form like the following is used and filled in properly by the packer:

To MOORE, HENTZ & NASH,

From

THIS BOX CONTAINS

Roses	Special	Fancy	Extra	1	2	3	Carnations
American Beauties							
Brides							
Maids							
Gates							
Liberty							

During the Winter months no icing or sprinkling of the flowers is needed before shipping, but in the warm weather a slight sprinkling of the stems is necessary and, if the journey to market lasts over five or six hours, chipped ice should be freely scattered among the stems, which helps to keep the flowers cool and fresh for a long time.

In conclusion, we would say that every grower should visit his commission dealer occasionally, be there in the morning when his own stock arrives, and see for himself the condition in which the flowers are after their journey. This will help him to improve on his packing methods, if possible to do so, and will also be a favorable opportunity for him to compare his stock with that produced by other growers who are more or less experienced than himself.

American Carnation Society.

Varieties Registered.

By F. H. Kramer, Washington, D. C.

F. H. KRAMER, a cross between Mrs. Thomas W. Lawson and The Marquis; color a shade brighter than that of Lawson; flower a trifle larger, with no short stems in the Fall, and does not burst. In growth it is stronger than any carnation we have grown; and is entirely free from disease. A continuous bloomer and stems stand without support.

ALBERT M. HERR, Secretary.



Box No. 1.—Containing 376 Roses Packed from Each End of the Box; a Method that can Only be Followed When the Flowers are Short-Stemmed

WINDOW GLASS—Higher prices are still talked of, but none has yet been announced as far as can be learned, says The Metal Worker. With some factories hampered for want of fuel and the output of others reduced by various causes it is estimated that the total output of glass will not greatly exceed demand up to the time factories resume operations in the Fall. New York quotations are as follows: First two brackets, single, 90 and 15 per cent. discount; larger sizes single and all double strength, 90 and 5 per cent. discount; all from jobbers' list of October 1st, 1903.

The Musa or Banana Tree.

This beautiful plant is unsurpassed for producing tropical effects. The accompanying illustration shows a row of musa alongside a walk leading from the veranda to the veranda at the home of Frank Cummings, Meridian, Miss. There is also a row on the opposite side of the walk; and in Summer the great wide leaves arch overhead, the effect produced being that of an avenue of palms in the tropics.

All through the South one sees large clumps and single specimens of the musa, and where a little extra attention is given them they are very beautiful, often growing to be 20 feet high and 8 to 10 inches in diameter. The leaves are often two feet wide and eight feet long. They will stand the hardest storms, never breaking, except that the leaves will be torn into fringe hanging from their ribs, which is quite as pretty as the perfect leaf.

Very few persons realize how easily this grand plant can be grown, even as far North as New York. Take a strong root, or bulb, and start it in a large pot, or tub, in very rich earth, keep in a temperature as near 5 to 80 degrees as possible, and when all danger of frost is over plunge the tub in the ground, in the sunniest location possible. Give plenty of water and liquid manure, as they are gross feeders, and one will be surprised at the wonderful growth the plants will make. Be sure to have the tub large enough for plenty of root growth. When frost has killed the foliage in the Fall, remove the tub to a frostproof cellar, and in the Spring select the strongest sprout—not the old stump—and start over as before. They increase from the roots, but all of the sprouts should be kept down until late in the Summer, so that the main plant may get all of the nourishment. After the plant has passed the fast-growing stage the sprouts may be allowed to grow in order to get strong roots for the next year. The roots of the musa are hardy with a little protection as far north as Tennessee.

There are many varieties of the musa; we find *Musa orientum*, one of the fastest growing sorts, the *Musa paradisiaca*, or Orinoco banana, the largest and hardiest. Anyone who tries the musa will be well repaid. W. W. C.

Salvias.

Considering the size of this genus of plants, it is not very well represented in the hardy herbaceous collections. The different species, as a rule, are somewhat coarse-growing, and while the flowers are interesting and pretty the proportion of bloom to the quantity of foliage they produce is not sufficient to make them very showy. While this is characteristic of the hardy herbaceous kinds, it is not so with the tender ones, as evidenced by the *Salvia splendens* or scarlet sage, and *Salvia patens*. Owing to the great number of species and the range of color to be found in the family, it should be a good field for the hybridist and plant breeder.

In the case of the *Salvia argentea*, the foliage is much more attractive than the flowers, so that a good vigorous growth is an advantage. The large, wedge-shaped leaves are very thickly covered with wool, like silvery hairs, making the plant a very striking object that never fails to attract attention. In the vicinity of Philadelphia it has proved itself well able to stand the Winters, but from all accounts it is not so reliable farther north. The first year from seed it is, perhaps, at its best as a foliage plant, because as soon as the flower stem appears the leaves lose their tomentose condition. The plants bloom the second year from seed, about June. The inflorescence is a huge panicle, but the flowers being white, they do not contrast very well with the foliage. The flowers not being so desirable they should be pinched out as soon as they begin to make their appearance, which will have a tendency to lengthen the season of attractive foliage.

Salvia pratensis is, perhaps, the best known among the hardy sorts. It has violet-colored flowers; there are also rose and white varieties.

Salvia nutans is not spoken of very highly in Bailey's Cyclopedia as a garden plant; with the writer it is a favorite and equal to any of the hardy kinds. Its habit is excellent, and it does not have the coarse appearance of some of the others. The basal leaves stay close to the ground; and the flower stems are thrown up to the height of about three feet, so that the lavender blue flowers, forming the nodding inflorescence, from which it takes its name, is well in evidence.

Salvia glutinosa is rather a coarse growing subject, that has not very much to recommend it except the color of its flowers, which are yellow. As the name indicates, the plants are rather sticky, prohibiting its use as a cut flower.

Perhaps the best of all the hardy salvias is *azura grandiflora*. From one point of view this plant lacks what the others have too much of, as the foliage is extremely sparse. The plant is straggling in habit, so should always be staked and tied up, or the flowering stems, that are usually about five feet high, will sprawl all over the place and look very untidy. ERNEST HEMMING.

CLUB AND SOCIETY DOINGS

THE TRI-CITY FLORISTS' ASSOCIATION held a meeting Feb. 12, at the home of Wm. Knees, Davenport, Ia. The session was devoted to the nomination of officers for the next election, which takes place at Odd Fellows' Hall in Davenport, March 13. The members spent the remainder of the evening in a social way, and were pleasantly entertained by Mr. Knees.

LENOX (MASS.) HORTICULTURAL SOCIETY held its annual ball on February 14, about 250 guests participating. A fine buffet luncheon was served by Harry Peters. The committees in charge of the ball were: Reception, R. A. Schmid, A. J. Loveless, E. Jenkins, G. H. Thompson, A. McConnachie, E. J. Norman; floor, W. G. Clifford, Ralph Gorham, C. J. Russell, J. Bosworth, Frank Howard; arrangements, William Woods, S. Carlquist, A. J. Loveless, F. Butler, F. Hermans.

The regular meeting of the Society was held February 18, President R. A. Schmid in the chair. The Housatonic Agricultural Society held an institute with this Society, and introduced Professor George E. Stone, of Amherst, Mass., who gave a public lecture on "The Relation of Science to Agriculture." Professor Stone dealt chiefly with the experiments making at Amherst. His talk was very interesting. G. F.



MUSA ENSETE.

On Grounds of W. W. Cummings, Meridian, Mass.

THE MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY had a very lively meeting on February 7 at Oceanic. The ball committee reported all bills paid and over \$50 surplus on hand. President George H. Hale had some very fine violets on exhibition. Several members of the Society have offered prizes for an essay on "Rose Culture Under Glass." The assistant gardeners only can compete for these prizes. The papers must be sent in before March 3 to the secretary, H. A. Kettel, Fair Haven, N. J. Several other subjects will be taken in, at consecutive meetings, and prizes awarded for best papers on same. The judges on these papers are: H. A. Kettel, N. Butterbach, William Turner, George H. Hale, and W. W. Kennedy. Different committees appointed by the president are: Investigating committee, William Turner, N. Butterbach, and H. A. Kettel; executive committee, C. H. Walling, T. S. Barkuloo, H. Longstreet, John Yeomans, and P. Hicks; exhibition committee, H. McCarron, W. W. Kennedy, H. A. Kettel, and William Turner.

RHODE ISLAND HORTICULTURAL.—The annual meeting of the Rhode Island Horticultural Society was held in Providence January 18. There was a good attendance and the meeting was an interesting one. The society has about 300 members in all. The report of the secretary, Charles W. Smith, showed that ten meetings had been held during the year, with an average attendance of 65. The secretary deplored the lack of a building for a home of the society, and suggested that the interest of the society would be better maintained if the annual meetings could be made more important events, with an all-day session and a banquet in the evening. Samples of a new medal to be used in cases of special awards at the exhibitions were shown at the meeting. The medal bears a likeness of the new Rhode Island State house in bold relief on the face, and on the reverse a wreath, with the seal of the State and a blank for suitable inscriptions. The election of officers resulted as follows: President, Marcus M. Burdick; secretary and treasurer, Charles W. Smith. The society appropriated \$25 for the purpose of providing refreshments at the regular meetings.

THE UTICA (N. Y.) FLORISTS' CLUB held its third annual carnation meeting and banquet (the ladies included) at Hotel Martha, February 16. There was a very large attendance, and the floral display was fine. Among those present from out of town were: Seward Hakes and wife, Theo. Schesch and wife, Jacob Friis, Iilon, N. Y.; A. Grassl, Barneveld; Messrs. Barclay, Herkimer, N. Y.; J. O. Graham, Little Falls; M. Powers, Canajoharie, N. Y.; John Humphrey, Mr. and Mrs. Byam, Rome, N. Y.; P. R. Quinlan, J. Robertson and Robert Dunne, Syracuse, N. Y.; Mr. Kilbourn, Clinton, N. Y.; John Auld and wife, New Hartford; Mr. and Mrs. Owen and Mr. and Mrs. W. A. Rowlands, Whitesboro, N. Y.; Mr. and Mrs. George Benedict, Yorkville, N. Y.

The exhibition, which was held in several upper rooms of the hotel, included new varieties in carnations and some roses which are to be sent out this year. C. F. Seitzer, Utica, showed *Enchantress*, a sport of the same variety in deep pink, and a 1904 seedling, which was a novelty or freak. Frank McGowan, Utica, had sweet peas *Mont Blanc* on stems 10 inches long, very fine; also *Blanche Ferry*, equally good; *Flamingo* carnations and violets. Wm. P. Pfeifer, Utica, showed a fine vase of *Enchantress* and Mrs. Lawson carnations. Wm. Mathews, Utica, had a large and very attractive bouquet of white lilac and Mrs. Lawson carnations. Robert Boyce, Utica, exhibited a fine vase of *Enchantress* carnations; Donald MacLane, Utica, had an excellent display of carnations in variety. W. A. Rowlands, Whitesboro, showed two vases of the Red and White Lawson carnation; excellent. J. J. Williams, Utica, displayed a large rhododendron in bloom; also cypas leaves, wheat sheaves, immortelles and other florists' supplies. J. O. Graham, Little Falls, had fine *Enchantress* carnations. John Murchie, Sharon, Pa., sent a white seedling carnation No. 23; it has extra large and heavy stem—a very fine flower, bound to win. H. Weber & Sons, Oakland, Md., exhibited *My Maryland*, a very handsome white carnation. Davis Bros., Bloomsburg, Pa., showed three varieties of pink seedling carnations, all very promising; also *Crisis*, a very bright scarlet, and *Mary Albert*, white. W. J. Palmer & Son, Buffalo, had a large display of the Red Lawson, 65 blooms, all fine specimens. This was one of the most attractive vases in the show. F. A. Blake, Rochdale, Mass., sent a red seedling of great promise, with fine heavy stem and of good color. E. A. Nelson, Indianapolis, Ind., exhibited the improved Nelson, a fine flower, color of *The Marquis*. John E. Haines, Bethlehem, Pa., showed his new red seedling, *John E. Haines*, to be sent out in 1906. It surely is a grand flower, good in every way as it was seen here. P. R. Quinlan & Co., Syracuse, N. Y., had a large and fine display; it included, in carnations, *The Queen*, *Vesper*, *Lady Bountiful*, all fine specimens, and *The Marquis*, as good as ever; also *Flamingo*. In roses, Quinlan & Co. had a large display, which included *Mme. Abel Chatenay*, *Ivory*, *Bridesmaid*, and *Golden Gate*, all done well. The florists took special interest in a new rose called *Wellesley*, grown by Alex. Montgomery, Natick, Mass., and not yet on the market: It is a beautiful pink rose, and was greatly admired by every lady and gentleman present.

The florists, their wives and lady friends enjoyed an inspection of the flowers from 8 o'clock until 10, when all were invited into the large dining room of the hotel, where a fine dinner was served. Professor George C. Hodges acted as toastmaster. The first toast was "Floriculture, Past and Present," responded to by Wm. Mathews, who has been a florist for 36 years. He is the "grand old man" of the Florists' Club. Mr. Mathews was received with applause. Thirty years ago, he said, there were but few florists in Utica, and there was less work and worry among them than there is to-day. The speaker named some of the florists who were then in business here, and some of the flowers that were then popular. It was a pretty poor day when they did not sell all the way from \$15 to \$50 worth of flowers. Prices were better then than now, and many flowers brought a dollar per blossom; even flowers which to-day would be thought commonplace realized \$2 per dozen. The cost of production was then less.

Frank J. Baker, president of the Florists' Club, replied to the toast, "Posies and Politics." He said he knew a little of posies and he had friends who could tell him about politics. The names applied to our business will sometimes be appropriate in politics. When you look at a bunch of cuttings, and find them well rooted, you say "That's a good strike"; and among a certain class of politicians there are said to be strikes, especially when there is a corporation around. You prune a shrub and say it is well trimmed. Many candidates know to their sorrow the meaning of the phrase "well trimmed." Occasionally we unite a weak scion on a strong graft; and there is a set of politicians who thrive on graft. Further researches might be dangerous to the friends of posies.

"The Ladies" was responded to by Seward Hakes of Iilon, vice-president of the club, the toastmaster saying that the Utica members had enjoyed the hospitality of Mr. Hakes' home extended by the ladies of his family. Mr. Hakes said the theme is one nearest and dearest to the hearts of all. He referred to the trouble which Eve made for the gardener in Eden, and ever since she has had something to say about the conduct of the garden. The florist's is one of the few lines of business in which the whole family can engage, and the good taste and good sense of the ladies contribute much to its success. In certain districts of New York the ladies have become sep-

arated from the business, and there has been trouble in consequence.

"Our Guests" was responded to by Mr. Roberts of Syracuse. He hoped that that city would have a similar organization some day, and spoke of the value of sociability among the members as an advantage to all.

It was about midnight when the company broke up after having spent a most delightful evening.

For the success of the entertainment the toastmaster returned thanks to the committee in charge, which consisted of William E. Hermant, Henry G. Martin, S. A. Pinkstone, Henry Seitzer, Wm. Harness, Frank McGowan, James Toney, assisted by the secretary, J. C. Spencer. One hundred sat down to the well-spread tables. The next regular meeting will be held March 2.

QUIZ.

THE NEWPORT (R. I.) HORTICULTURAL SOCIETY held its regular meeting last Wednesday evening. President James J. Sullivan in the chair. The prize schedule for the coming year was discussed and arranged. So many matters were introduced in regard to the prizes and exhibitions to be held that it will take another meeting before a full report can be given out as final. The executive committee advised the society to ask the State Legislature to grant a public hearing in regard to erecting a greenhouse at the Agricultural College at Kingston, R. I.; this the society was only too pleased to do, as the good work being done by the college is everywhere acknowledged. The president spoke in regard to Bulletin 100, issued by the R. I. College, which contains many valuable formulas and notes on spraying trees and plants. John Robert Clark, seedsman for the George A. Weaver Company, and J. B. Parsonage were both elected active members. The next meeting occurs on Wednesday, March 1.

F. W.

PENNSYLVANIA HORTICULTURAL SOCIETY.—The regular monthly meeting of this society was held at Horticultural Hall on Tuesday afternoon, and was very well attended. The lecture was an illustrated one by Mr. R. F. Powell, superintendent of the Philadelphia Vacant Lots Cultivation Society, and was descriptive of the work doing by that society in giving employment to poor and unemployed people. The most interesting part of the lecture to city residents was that relating to the school gardens established in various parts of the city, the taking of vacant lots all of which were usually eyesores to the neighborhood and turning them into vegetable and flower gardens, all the work being done by school children under supervision of the teachers from instructions received from those designated by The Vacant Lots Society. In all these cases the society supplies seeds, tools and fertilizers and plows the ground. The vegetables grown are the property of those who work the ground. This society is doing a very good work, and not only is providing for the poor people, but also improving their health by open-air exercise.

The schedule of prizes for the chrysanthemum show of the Pennsylvania Horticultural Society was reported by the Committee on Establishing Premiums. Some changes were made, most noticeable being the increase of value of some of the cut flower prizes, in view of the visit here next November of the Chrysanthemum Society of America.

The exhibits at this meeting were cyclamen, of which Mr. P. A. B. Widener (Wm. Kleinbeinz, gardener) had the best, his pair being one a crimson, the other a crimson shading to rose pink. Mr. J. Vaughan Merrick (F. Ibbotson, gardener) came next, with a red shading to pink and a fine plant with nearly white flowers. There were some very good exhibits of *Primula obconica*. Mr. C. B. Newbold (Samuel Batchler, gardener) had two of the finest plants seen here for some time—one a pink, the other light red; but, unfortunately, they were frozen in coming in. The prizes were taken by plants with pink flowers from Mr. Louis Burk (Samuel Irvine, gardener), and Mr. John W. Pepper (Wm. Robertson, gardener). This exhibitor also staged two vases of carnations *Enchantress* and *Prosperity*, both fancy flowers. John Kuhn, Fifth and Tabor streets, this city, exhibited three of his seedling carnations, No. 13, seedling 99, and *Prosperity*, a light pink, which shows promise of becoming a good commercial variety; Nos. 15 and 16, seedling 99, and Mrs. Lawson; both of these are like Mrs. Lawson in type, but differ a little in color, and apparently are longer in stem. All three seedlings have a very good calyx.

DAVID RUST.

BOSTON GARDENERS' AND FLORISTS' CLUB.—The regular monthly meeting of this club was held in Horticultural Hall, Tuesday evening, with an attendance of about fifty. President Wheeler called the meeting to order. A communication was read from Mr. Pettigrew, resigning his presidency of the entertainment committee. It was not accepted, however, and a committee was appointed to wait on Mr. Pettigrew, asking him to reconsider his action, which he finally did, to the eminent satisfaction of the club.

A lively discussion took place on the form of certificates to be issued by the club, and it was finally agreed to appoint a committee to draw up forms of certificates and report at next meeting. The president appointed on this committee: Messrs. Farquhar,

Craig, Morton, Fisher and Stewart. A motion to amend the by-laws so that the executive committee should be appointed by the chair, instead of elected, was lost after a lively discussion.

There were on the exhibition tables a few good things, including a vase of the new rose, *Rosalind Orr* English, and carnation *Cardinal* from the E. G. Hill Company, of Richmond, Ind. The former was awarded a certificate of the second class, and the latter honorable mention. A. Roper, of Tevksbury, Mass., exhibited a fine vase of his seedling variegated carnation, *Chester Roper*, for which an honorable mention certificate was awarded. Votes of thanks were passed to Alex. Ogg, for a display of amaryllis; to Thos. Westwood for canna *Admiral Dorey*; to H. A. Stevens Co. for carnation *Flamingo*, and to George Anderson for seedling carnations and display of cineraria blooms.

The speaker of the evening was W. W. Rawson, of Arlington, and he gave a very able address on the advancement of the growing of vegetables under glass in the last twenty-five years.

Mr. Rawson said in part: "In looking back over a period of twenty-five years, we can see many changes that have taken place, not only in business, but in the growing of crops and the quantity grown; also in the manner of selling them. The idea has been, and is growing more so, of concentration; that is, growing more and larger crops on smaller areas. In order to do so the use of greenhouses has become more and more extended, and to-day no one in the vicinity of large markets can afford to be without a number of houses. There are fully twenty times as many houses as there were twenty-five years ago; then I had three; to-day I have thirty-six. Not only has the number increased, but also the knowledge of the management of them has become more universal. In most houses today three crops are grown, sometimes four; the first is lettuce, the second either lettuce or radishes, and the fourth cucumbers. When four are grown, three are lettuce, and the fourth cucumbers; but the crop is somewhat later than when only two crops of lettuce are grown; that is, the first crop of lettuce is pulled for market about November 1, the second about the middle of January; then the cucumber plants are set out, and they will begin to bear about March 1. When three crops of lettuce are grown, the first cucumbers will not be picked before the 10th of April. When there are but few houses, two crops of lettuce is the best plan; but if there are a number of houses, both ways are adopted."

Mr. Rawson then spoke of the consumption of the various vegetables and continuing, said: "It is very difficult to grow good headed lettuce in the months of December and January, because of the cold and stormy weather and long dark nights. We have tried to offset some of this by the use of electric light, but it is not quite equal to the sun. The crop will grow as much in one day in March as in two days in December and January. Owing to their requiring a higher temperature, few houses are run to cucumbers in December and January. The difference between lettuce and cucumbers is like that between carnations and roses, only the cucumber is much more tender and more difficult to grow."

Speaking of construction of houses, Mr. Rawson said that the modern houses were so much superior that they lasted much longer, and it was more profitable to have them, although the houses he first built, twenty-five years ago, lasted twenty years. For size of house he preferred one 4 feet high in front, 6 feet at back, and 18 feet in center and 30 feet wide, and said that his houses of that size grew the best crops. The crops get more light and a better circulation of air. The requirements to grow a perfect crop are air, light, heat, moisture and the necessary fertilizers that the crop requires; and if the grower understands the crop he can grow a perfect crop under glass with all the necessary materials. The soil acts as the machine, and the materials to be used put into the soil, or machine, properly managed, will produce a crop the same as putting into any machinery the proper materials to produce a manufactured product. The better the materials used the better the product will be. It is a well-known fact that nearly every plant has some injurious insect that seems to delight in devouring the plants, and therefore, some means must be resorted to to destroy them. We are obliged to fumigate in various ways and also to spray with different materials, most of which are very effective. Sterilization of the soil eradicates them as thoroughly as any one thing. They cannot live in a temperature of 212 degrees, and all germs and insects are completely removed from the soil, and they do not appear until new ones are formed. This method of sterilizing the soil renews it so that it is like virgin soil, and will produce much better crops than before the process was applied. It is done to a large extent, and the result has been wonderful, in most cases. After the soil has grown three or four crops the process is repeated. It not only destroys all insects, but all weed seeds, and none will grow for some time after the soil is sterilized. It works as well with potting plants as otherwise.

Mr. Rawson then explained at length the manner in which he first experimented with sterilization, and the method he adopts to-day.

The speaker then said a few words on the various crops that are grown, speaking of parsley, lettuce, cucumbers, tomatoes, beets, rhubarb, asparagus, radishes, beans, spinach, melons and mushrooms.

Mr. Rawson said that a good plan to follow was the advice often given by the late E. N. Peirce. If you are to start in the greenhouse business, build first the chimney, and make it large enough; next add the boiler house and boilers, and finally the greenhouses; but, by all means, have the former five or ten times the size of what will be at first required.

Mr. Rawson's talk called forth a lively discussion. Mr. Montgomery agreeing with him in some things he had said about heating, but stated that the modern idea was not to build a chimney but install a blower. He also called attention to the fact that acetylene gas was a better light than electric for producing a quick growth on crops.

To a question from Mr. Fisher as to the cost of sterilizing soil, Mr. Rawson said that half an acre could be done for \$150. Others taking part in the discussion were Messrs. Finlayson, Cowles, Craig, Anderson and Duncan. A hearty vote of thanks was given to Mr. Rawson, after which he invited the club to visit his Arlington establishment on their next field day, which will be March 11.

The meeting broke up at a late hour, and it is to be hoped that some of our Western craftsmen will be present at the next meeting, March 21, two days before the meeting of the American Rose Society. J. W. D.

CHRYSANTHEMUMS,

As Grown in New Orleans, La.

In a recent number of the *Picayune*, of New Orleans, La., C. W. Eichling, florist, gives the following practical information on the subject of growing the chrysanthemum in that section of the South, where Mr. Eichling believes, the plants can be cultivated a profit.

Chrysanthemums are best propagated from cuttings. Florists do not set out the suckers or side shoots, as often done by amateurs. These suckers or divisions appear very early in the Spring, and if not planted out immediately they become hard on the old stock, and even if planted early, the period of growth is too long for them to remain soft, and a hard, woody stem on a chrysanthemum has never yet produced a good flower. Cuttings root easily on a warm bed in a few inches of coarse clean sand. Use only strong, soft cuttings, water well after planting them in the sand, and keep them shaded against the sun, but give plenty of light otherwise.

They root in about ten days; then they are taken up with all the fibrous roots, and planted into two-inch pots, using fairly good soil that permits of easy drainage. In the cutting, or propagating bed, the young plant has to subsist on a water diet alone. It would, therefore, be risky to shift it immediately into a very rich soil. Many of the plants would die. As soon as the young plants are rooted through the small pot they get a shift into a three-inch pot with much richer soil, to induce a healthy growth and prepare the plants for the open ground into which they go about the end of April. The cuttings are made from January until March, according to the early and late blooming varieties. Some that are wanted for Christmas flowers may be propagated in the open ground, under a slatted shed or canvas, as early as July and August. In New Orleans our most valuable crop is taken off on All Saints' Day, November 1, price for fancy flowers ranging from \$3 to \$6 per dozen retail, and second and third-class as low as \$5 per hundred.

The beds on which chrysanthemums are to be grown should be made of rich soil, high and well drained, a heavy loam, with a liberal mixture of cow manure or bonemeal, suits them better than high, sandy soil. The plants are set out in beds, in rows one foot apart, and six inches between the plants. As we do not desire more than two flowers per plant, this distance will allow the flowers to attain six inches in diameter without rubbing each other. We allow three feet between the beds to permit of free passage and easy cultivation. After planting, give a good watering. As the plants are set out from pots they require no shading, taking hold of the soil immediately. When the plants are about one foot high we pinch the tops off the strongest growing one, which causes them to make several shoots, of which we allow the strongest to grow. The selection of these top shoots must be made as soon as they are an inch or two long so as to avoid a loss of growth in unnecessary shoots. The weaker plants are never topped with intention to grow one single flower on them. The question whether it pays to grow one large flower per plant or three or more of smaller size, depends largely on the demand in different localities. Some people prefer to pay 50 cents for a single, extra choice flower of six to eight inches across to the bunch of smaller ones.

The only insect enemy the chrysanthemum has is the green and black fly, which can easily be kept down by a liberal application of tobacco dust and stems.

It is now time to stake or tie the plants as they grow taller, in order to protect them against injury by wind and to keep the branches perfectly straight. We drive a stake at each end of a row and stretch No. 16 wire the first about a foot from the ground, the second about two feet, and a third to tie the stems as near to the flower as possible. The plants are set out until the flowers are cut, the chrysanthemums must not be allowed to get dry, and as long as drainage is perfect there is little danger of overwatering, except during the last stages of perfecting the flower, when water should be given rather sparingly. The soil was well prepared and enriched before planting, additional fertilizing or feeding is unnecessary until the buds are formed and selected.

There are two kinds of buds on chrysanthemums. The first, or crown bud, appears about the beginning of August, and stands single in contrast to the terminal or final bud, which nearly always comes in a cluster of from three to six, and perfects the best flower. The crown bud is imperfect, and should not be allowed to grow. Only under very favorable circumstances, such as cool, moist days and nights, do early crown buds ever amount to anything. The terminal bud on early varieties appears at the end of August and early in September. As soon as the cluster of buds separates and the bud stand on their stems, the cluster buds are of the size of large pin heads, the best, or largest one of them is selected for the flower, and all the rest pinched off. The plant is now nearing the end of its growth. No more new leaves are formed, with the exception of the little side shoots, which will appear from each leaf axil, and which must be diligently rubbed out with the thumb nail so as to concentrate the entire energy and sap on the forming bud.

It is supposed that by this time the plant, which is a very gross feeder, has exhausted the plant food contained in the soil, and in order to obtain as large a flower as possible, we give the plants twice a week a watering with cow manure, applied in the consistency of strong tea. Toward the end of September the early varieties will show color. From this time on feeding must be stopped, only clear water given, and the quantity gradually reduced until the flower is perfected. The opening petals are very delicate and waxy; all contact with each other must be avoided. For this purpose we build a shelter over them and cover with canvas; or, still better, with glass, to keep the rain and dew from falling on them and to protect them against the hot sun rays, which easily burn them.

THE ST. LOUIS FLORISTS' CLUB will hold a regular meeting on March 9, at which cash prizes will be offered. All exhibits should be sent, prepaid, to either C. A. Kuehn, 1122 Pine street; H. G. Berning, 1402 Pine street, or F. M. Ellis, 1316 Pine street. The scale of points of the American Rose Society will be used in judging.

Review of the Market

NEW YORK.—With an increase of stock of all kinds, the cut flower market is in a most unsatisfactory condition.

Lilies are unduly plentiful, and one wonders where the Eastern supply is going to come from, as every grower seems to be cutting heavily just now.

Narcissus of all varieties are in abundance, as also are tulips and lily of the valley, with but a meager demand for any of them.

Smilax and asparagus are in fair demand, but taking into consideration how near we are to the beginning of Lent.

BOSTON.—The past week has been one of the best seen in the markets this winter.

ST. LOUIS.—Trade among our retailers the past week was not of a rushing kind, still there seems to be enough doing to keep the help fairly busy.

INDIANAPOLIS.—Since the extreme cold weather set in, business has grown better, but it is not equal to that of February, 1904.

ROSEBURY, N. H.—Our florists have had a very good business, considering the extreme cold weather.

CHICAGO.—Trade conditions have an upward trend, while, on the other hand, there is a considerable decline on prices on almost every kind of stock.

WASHINGTON, D. C.—In consequence of a great many visitors having arrived for the inauguration of President Roosevelt, and this being the height of the social season, the florists have been kept very busy with numerous dinners and receptions.

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BALTIMORE.—Business is moving along very nicely, most all stock being used up daily.

NEWPORT, R. I.—Our florists have had a very good business, considering the extreme cold weather.

CINCINNATI, O.—St. Valentine's Day cut quite a figure in business.

LOUISVILLE, KY.—Business, considering all things, is of a satisfactory nature; stock continues to daily improve in quality.

PROVIDENCE, R. I.—There has been no change in prices the past week, everything being plentiful.

LIMA, O.—N. R. Swan will open a flower store here about March 1.

LOOMIS, CAL.—The California Carnation Company was sold on February 11 by Mitting & McGowan to Johnson & Taylor, of Sacramento.

The Fumigating Kind Tobacco Powder. All That Use It Say "There Is Only One". FREE trial five-pound bag will cost you nothing more than the express charges on it. THE H. A. STOOHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York.

THE STANDARD TREATISE ON GARDENING.

THE GARDENER'S ASSISTANT

New Edition.

UNDER THE DIRECTION AND GENERAL EDITORSHIP OF

WILLIAM WATSON

Curator, Royal Gardens, Kew.

Thoroughly Up-to-Date; The Recognized Authority on Gardening; Most Distinguished Contributors; Lavish in Illustration; Indispensable to Practical Florists and Gardeners, to Country Gentlemen and the Amateur. A Complete Encyclopedia of Gardening. The Leader Among Gardening Books.

For the past half-century THE GARDENER'S ASSISTANT has maintained its unique position as the **standard treatise** on practical and scientific horticulture.

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THE GARDENER'S ASSISTANT is a compendium of all operations of the garden and arboretum; from the formation of the garden and plant-houses to the cultivation of all kinds of plants, whether for use or ornament: trees, shrubs, herbaceous and alpine plants, stove and greenhouse plants, orchids, ferns, succulents; fruit, both under glass and in the orchard or kitchen-garden, and vegetables of all kinds.

Everything has been done that could be done to elucidate the text by the free use of **illustrations**. These represent recent gardening appliances, houses, heating apparatus, flowers, trees, diagrams, schemes for laying out the garden, methods of pruning, etc. In fact, wherever a picture would be useful a picture is given. Moreover, in addition to the black-and-white text illustrations, there are twenty-five full-page black-and-white plates, and eighteen colored plates of flowers and fruits, specially prepared for the work by eminent artists.

THE FIRST PORTION of the work deals with **GENERAL PRINCIPLES**; THE SECOND PORTION is devoted to directions for the **CULTIVATION OF DECORATIVE PLANTS OF ALL KINDS**—stove, greenhouse and hardy trees, shrubs and herbaceous plants; THE THIRD PORTION treats upon **FRUIT CULTIVATION** in all its branches, both under glass and outside; and THE FOURTH PORTION upon the **GROWTH AND MANAGEMENT OF VEGETABLES AND HERBS**.

THE GARDENER'S ASSISTANT has been made the **SOUNDDEST** and **MOST PRACTICAL**, as it is unquestionably the **NEWEST** and **MOST UP-TO-DATE**, Book on Horticulture.

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PRICE, delivered free, by express, to any part of the country, cash with order, \$15.00. Money refunded if not satisfactory. Or, we will send purchaser the two volumes on receipt of a first payment of \$4.00 and six monthly payments thereafter of \$2.00 each.

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Publishers and Proprietors THE FLORISTS' EXCHANGE.

The value of THE GARDENER'S ASSISTANT has been endorsed in this country by many of our leading gardeners. It can be purchased on easy monthly installments and should be in the hands of every gardener desirous of being thoroughly conversant with all the developments of his business.

We are Headquarters for all books in print touching on Horticultural Subjects. Write us for a Catalogue.

Philadelphia.

News of the Week.

The celebration of Washington's Birthday brought lots of work to the retail florists, as it seems everyone of high social standing had some kind of entertainment going on. Habermehls Sons were very busy at the Bellevue-Stratford Hotel with table decorations and bouquets for theater parties, Wm. Graham Company had seven affairs to look after; the luncheon of the City Troop to President Roosevelt, 120 covers; the Jewelers' Club dinner, Horticultural Hall, 510 covers; three dinners at the Union League, one of 150 covers and two of 30 covers each; a dinner at the University Club of 120 covers, and a dance at the Manheim Cricket grounds, Germantown.

The Florists' Club celebrated the holiday Wednesday by holding a bowling handicap and having open house as to refreshments, from 2.30 until 11 p. m.; it was well attended.

DAVID RUST.

Rose Night at Philadelphia.

It has been decided by the committee having the matter in charge that the next meeting of the Florists' Club of Philadelphia, to be held Tuesday, March 7, will be rose night. The members of the Florists' Club are anxious to see all the novelties among rose that are likely to become popular. All those having such are invited to bring them to this meeting, or if it is impossible to do so, kindly forward same by express, prepaid, in care of David Rust, Horticultural Hall, Broad street, Philadelphia, Pa.

EDWIN LONSDALE, Secretary.

New York.

The Week's News.

The retail windows are beginning to put forth a very Spring-like appearance, with displays of pussy-willows, Dutch hyacinths, cinerarias, pansies, etc. The weather outside, however, is far from being in unison with these efforts of the florists to convey the impression that Spring is here, for although we have had one or two reasonably mild days, it is still quite Wintry, and the lack of sunshine is most persistent and unusual for this locality.

The general holiday that occurred on Wednesday, the anniversary of the birth of the immortal Father of his Country, did not create any unusual stir in the flower trade. A few dinners and other social events came off, of course, but as regards any extraordinary displays of floral work, there was nothing doing.

Early on Thursday morning a serious fire broke out in the business block located next door to the premises of Clucas & Boddington Co., seedsmen, corner of Jane and Greenwich streets. While the fire proved a disastrous one, it did not, fortunately, spread to the store and warehouse of Clucas & Boddington Co., and, aside from the glass being broken in their front entrance doors, no damage was sustained by them—a lucky escape, indeed.

Paul Benschall, a florist, who for the past four or five years had been in the employ of Siebrecht & Son, died suddenly while attending a ball on Tuesday evening.

J. Walter Reimels, Woodhaven, N. Y., who officiates as a salesman for his father, met with a severe fall last Sunday and has since been unable to leave his home. Moore, Hentz & Nash are, in the meantime, handling his carnations every day.

The proposed city plant market has not yet materialized, and as the season is almost here when the New York Florists' Market Association requires market space, efforts are being made to secure the old location at Canal and Clinton streets, and again erect the tents under which the early morning market can be held.

Ferdinand Mangold, who for 38 years was head gardener at Lyndhurst, the Gould estate at Tarrytown, N. Y., died at the age of 77 years recently, and was interred in the Sleepy Hollow Cemetery, Tarrytown, on Tuesday, February 21.

Wm. Elliott & Sons have just received a consignment of hardy roses, rhododendrons and conifers from Hol-

land. The auction season will be started about the second week of March.

Castor Socclaris and James M. King, florists, got into an argument in the Coogan Building, where the early flower market is held, last Saturday morning, and as a result, Socclaris either has to pay a fine of \$500 or spend six months in prison. King had him arrested for biting him in the cheek.

C. W. Ward is home from a visit to the West.

YORK, PA.—Charles E. Smith, the Jefferson avenue florist, has placed a new delivery wagon on the street. It presents a fine appearance and was built especially for his business.

BIRMINGHAM, ALA.—Hugh Seales, who two years ago purchased the Magic City Floral Co. plant, writes that he now has 22,500 feet of glass devoted to cut-flower growing; roses and carnations being specialties.

ROCKFORD, ILL.—Fred D. Johnston, the florist, who has been sick the past four weeks with heart trouble, is improving. Mr. Johnston contemplates the incorporation of a stock company to exploit the greenhouse business covering the growing of fancy carnations. Probably \$10,000 will be expended in stock in this undertaking.

FIRES.

WASHINGTON, D. C.—In the greenhouse of Frank L. Schulz, February 11. Estimated damage, \$40.

MARIETTA, PA.—On February 11, in the greenhouse of Adam Deppeller; hundreds of growing plants were destroyed.

OKLAHOMA CITY, OKLA.—Fire in Walker's seed store, February 13, damaged the building to the amount of \$100; that to the seed stock was merely nominal.

Finds It Indispensable.

Enclosed find one dollar for one year's subscription to your paper, which to us has become indispensable.

Canada. J. BEBBINGTON & SON.

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FOR CUT FLOWERS.

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Mention the Florists' Exchange when writing.

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GARDENER'S ASSISTANT,	\$15.00
VIOLET CULTURE,	1.50
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AMERICAN CARNATION,	3.50
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THE FLORISTS' EXCHANGE, 2 Duane St., New York

Your Advertisement

GOES

Among the Best Buyers in the Trade when it appears

IN

The Florists' Exchange

THE WEEK'S WORK.

Timme's Timely Teachings.

Hydrangeas.

The increasing demand for well-grown plants from year to year has also brought the hydrangea to the front again.

Inexperience often leads some growers to cut back some of the long branches when potting up the Hydrangea Hortensia, in September; the consequence is a lot of fine plants without bloom.

Plants intended for Easter stock should, by this time, be showing their flower trusses plainly, plain enough to be easily distinguished as such.

While developing their heavy foliage and bloom a resetting of the plants from time to time will be found necessary.

Now, that is, from the end of January to the beginning of March, is one of the two periods in the course of hydrangea culture when propagation should take place.

But while these medium-sized hydrangeas, grown from February struck cuttings and forced into bloom a year later, are a most desirable kind of stock to carry, generally throwing from eight to twelve large trusses on stout, upright stems, the fact remains that a class of buyers is always in search of big hydrangeas.

Ardiasias.

Where fresh seeds of Ardisia crenulata can now be obtained, a sowing at this time of the year holds out a promise of greater success than one attempted in the Summer or late Spring.

time warm weather sets in, when no extra effort, or unusual care, will be required to keep them in active growth and in good health.

However, these plants will prove more profitable if carried over a year or two and allowed to become of the right size, so much called for now.

Fancy Caladiums.

Another plant requiring heat at all times, but especially when awakened from its sleep and being coaxed into new activity, is the fancy-leaved caladium.

Great and sudden changes of temperature must be avoided, or a sorry-looking lot of fancy caladiums will be the final outcome.

English Ivy.

The glorious old "ivy green" as a plant for the living room, office, store or shop window tries hard to eke out a decent living.

New uses, however, have been found for the various varieties of the English ivy. The large-leaved, as well as the small-leaved, the green as well as the spotted and streaked, have all been pressed into service as bedding plants.

Florists would find it to their profit to work up a quantity of nice three or four-inch plants for these purposes.

Florists would find it to their profit to work up a quantity of nice three or four-inch plants for these purposes.

GERANIUMS

ALL STOCK BOOKED FOR THIS MONTH.

Peter Brown, LANCASTER, PA.

Mention the Florists' Exchange when writing.

CYCLAMEN Once transplanted ready March 1. Seed of only selected flowers and choicest stock; none better. \$2.00 per 100; \$15.00 per 1000.

C. WINTERICH, Defiance, Ohio Mention the Florists' Exchange when writing.

Money By "Telegraph"

ORDER NOW

THE TELEGRAPH GERANIUM

Will make money faster than any plant you handle this season. Will Sell at Sight off your bench for \$3.00 per doz. and give tone to your establishment.

Thos. DeVoy & Son, Poughkeepsie, N. Y.

Mention the Florists' Exchange when writing.

PARIS DAISY

Giant white, 2 in. 2c; \$2.50 per 100. Asparagus Plumosa Nanna, 3 in., very fine, 4c; sprengeri, \$1.75 per 100.

LIST BELOW, ROOTED CUTTINGS, prepaid, per 100; Ageratum, Gurney, Pauline, white, 50c. Salvia Splendens, Bonfire, Silver-spot, 90c; \$5.00 per 1000.

CASH. BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

CYCLAMEN

SPLENDENS GIGANTEUM HYBRIDS.

My well-known strain in five true colors (seedlings), twice transplanted from flats, including the fringed variety, well-grown plants, \$3.00 per 100, \$25.00 per 1000.

Satisfaction Guaranteed

PAUL MADER, East Stroudsburg, Pa.

Mention the Florists' Exchange when writing.

COLEUS

ROOTED CUTTINGS

Verschaffeltii, Fire Brand, Golden Queen, Beckwith's Gem, Lord Palmerston, and Fancies, 80c. per 100; \$5.00 per 1000.

Golden Bedder (original) and Hero 75c. per 100; \$6.00 per 1000. A discount of 10 per cent. allowed on 10,000 or more Coleus. More liberal discount on large orders.

AGERATUM, Princess Pauline and Stella Gurney.

SALVIA, Splendens and Jean Revenal, rooted cuttings, 75c. per 100; \$4.00 per 1000.

VINCA VARIEGATA, 3 in. pots, \$5.00 per 100.

HELIOTROPE, 75c. per 100; \$5.00 per 1000.

FRANK A. PIERSON, Cromwell, Conn. Mention the Florists' Exchange when writing.

30,000 DOUBLE PETUNIAS

Beautiful Whites, lovely shades of pink, splendid reds, crimsons and purple and variegated.

Rooted cuttings, by mail, \$1.25 per 100; \$10.00 per 1000, by express.

Petunia Grandiflora, 20 varieties, single Glatts.....\$1 25 Abutilon, 8 vars., R. O.....1 50

GASH with order, please.

GEORGE J. HUGHES, Berlin, N. J.

Mention the Florists' Exchange when writing.

GERANIUMS

ROOTED CUTTINGS

Fifteen varieties at \$10.00 and \$12.50 per 1000. Seed for complete price list of Geraniums and Carnations.

ALBERT M. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION

Price, \$3.50

A. T. DE LA MARE PTG. & PUB. CO. LTD.

EASTER PLANTS A SPECIALTY

So many people inquire for catalogue and ask for prices; I print no catalogue, and to save correspondence, I give the following prices for the next three weeks.

Hydrangea Otakaka, 6 in. pots, \$3.00 to \$4.00 per doz.; 7 cts. pots, 75 cts. Cinerarias, hrb. (H. F. Michell's strain), 6 in. pots, \$2.00 to \$3.00 per doz.

GODFREY ASCHMANN, 1012 Ontario St., Philadelphia, Pa. Wholesale Grower and Importer of Pot Plants.

Mention the Florists' Exchange when writing.

CINERARIAS

4000, 3 in. pots, very strong, medium large flowering, \$3.50 per 100.

Asparagus Plumosa, 3 in., \$5.00 per 100.

CHRYSANTHEMUMS

Stock Plant.

Polly Rose, Willowbrook, Moutmort, Pacific, Morel, Appleton, Maad Dean, Ivory, white and yellow, Bouanston, Goldeu Wedding, Jerome Jones, \$5.00 per 100.

J. D. BRENNEMAN, Box 24. HARRISBURG, PA. Mention the Florists' Exchange when writing.

LOOK THIS OVER

We have ready now 100,000 Geraniums, composed of the following varieties in 2 1/2 in. pots, at \$18.00 per 1000; \$2.00 per 100.

Salvia, 2 in., \$2.00 per 100; R. C., \$1.00 per 100. Ageratum, Stella Gurney, Princess Pauline and other, 2 in., \$1.60 per 100; R. C., \$2.00 per 100.

J. E. FELTHOUSEN, Sohensotady, N. Y. Mention the Florists' Exchange when writing.

GERANIUMS Rooted, then potted and grown a month or more. Nutt, Perkins, Buchaer, Doyle, Poltevine, Ricard, etc., \$15.00 per 1000.

COLEUS Versch. G. Bedder and red, broad gold border, \$6.00 per 1000. Fancy, all brightest, extra choice, \$5.00 per 1000. Giant, large leaved, richest colors, 20 varieties \$1.00 per 100.

"THE CARDINAL"

The Best Scarlet Carnation

Again defeats all comers at St. Louis Carnation Show

Scores 97 points at Toronto last week—higher than all others

THE CARDINAL is a profitable carnation to grow; produces more blooms to the square foot than any other.

If you get a good stock of this Grand Scarlet you will have done investing in new Scarlets for years to come. *Do it now.*

Rooted Cuttings, \$12.00 per 100; \$100.00 per 1000; 250 at 1000 rates. Special prices on larger quantities.

INTRODUCERS:

CHICAGO CARNATION CO., Joliet, Ill.

E. G. HILL CO., Richmond, Ind.

S. S. SKIDELSKY, 824 North 24th Street, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

RED SPORT (Of Maceo.)

Red Sport has proved the greatest money-maker we ever grew, producing more good blooms to the square foot of bench room than any other variety on the place. During the first part of January we could only get four cents for fancy Lawson and sold every Red Sport we had at five cents. Every grower who was here in December was carried away with its possibilities, as a future supply of a "holly berry red" for Xmas. There is no pick in the blooms. They are all a uniform size and color. There are 40,000 or 50,000 buds showing in different stages of development at this time and there is not a split or off color bloom in the lot and every plant is the picture of health. We will plant 20,000 plants of Red Sport for next season's bloom and the cut is already engaged by two of Washington's leading retailers. Red Sport is an easy doer and everyone can grow it as successfully as we can. Price for Feb. 20th delivery—12 for \$1.50; 25 for \$2.50; 50 for \$4.00 post-paid; \$5.00 per 100; \$50.00 per 1000.

QUEEN LOUISE, still the greatest money-maker of any white; our stock is very vigorous and healthy, \$1.25 per 100 post-paid; \$10.00 per 1000. We guarantee stock to arrive in good condition and be well rooted.

A. B. DAVIS & SON, Carnation Specialists, PURCELLVILLE, VA.

Mention the Florists' Exchange when writing.

New Carnation CRISIS

THE FINEST SCARLET. LARGE FLOWER. LONG STEM. NEVER FADES. NEVER BURSTS.

PERFECTLY HEALTHY. THE BEST SHIPPER. BRINGS THE HIGHEST PRICE. THOROUGHLY TRIED. A MONEY MAKER.

PRICE: \$12.00 per 100; \$100.00 per 1000. SEND FOR CIRCULAR.

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

Good clean stock, well rooted.

Lawson	\$1.25	per 100
Queen Louise	1.25	"
Gov. Roosevelt	1.50	"
Lorna	1.25	"
White Cloud	1.25	"
Norway	1.25	"

Will exchange for 2 or 3 inch pot Geraniums, Stocks, Verbenas, Feverfew. Or let us know what you have for exchange.

STAFFORD FLORAL CO., Stafford Springs, Conn.

Mention the Florists' Exchange when writing.

Rooted Cuttings

For Immediate Delivery

The Queen, best white	\$2.25	per 100
Mrs. Patten, best variegated	4.00	"
Red Lawson, best red	10.00	"
Pink Lawson, best pink	2.50	"
White Lawson, fancy white	6.00	"

Unrooted cuttings, one half.

HENRY EICHHOLZ, Waynesboro, Pa.

Mention the Florists' Exchange when writing.

\$12.00 per 100
\$100.00 per 1000
250 at 1000 rate

VICTORY

TO BE
DISSEMINATED
1906

Place Your Orders for Rooted Cuttings of

WHITE LAWSON	\$6.00	per 100
NELSON FISHER	6.00	"
MRS. PATTEN	6.00	"
ENCHANTRESS	3.00	"
PROSPERITY	2.50	"
THE BELLE	6.00	"
LADY BOUNTIFUL	6.00	"

HARRY FENN	\$2.00	per 100
GOETHE, light pink	2.00	"
GENEVIEVE LORD	1.50	"
MANLEY	3.00	"
MACEO	1.50	"
CERVERA	1.50	"
LAWSON	1.50	"

5 per cent. discount for cash with order. Send your orders early.

ALEXANDER J. GUTTMAN

52 W. 29th St., New York City.

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THE AMERICAN CARNATION

Price, \$3.50

A. T. DE LA MARE PTG. & PUB. CO. LTD.
8 DUANE STREET, NEW YORK

Carnations SELECTED ROOTED CUTTINGS

CLEAN, HEALTHY STOCK FROM SAND AND SOIL	
	per 100 1000
Enchantress	\$ 3.50 \$ 9.00
Queen	2.50 20.00
Lawson	2.00 15.00
Wolcott	2.00 15.00
Queen Louise	2.00 15.00
Genevieve Lord	1.25 10.00
Floriana	1.50 12.50
Fiances	12.00 100.00

Careful packing. Stock guaranteed satisfactory in every way.

ROBERT C. PYE, NYACK N. Y.

Mention the Florists' Exchange when writing.

Variegated LAWSON

Sport of Mrs. Thos. W. Lawson. The flower is of the Mrs. M. A. Patten type and can barely be distinguished from it.

Rooted Cuttings

\$12.00 per 100; \$100.00 per 1000

JOHN REIMELS

CEDAR LANE, WOODHAVEN, L.I., N.Y.

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MY MARYLAND

Was the Sensation of the Chicago Exhibition Easily outranks any other White

Awarded First Class Certificate of Merit by the American Carnation Society; Lawson Bronze Medal for 100 blooms, and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are hooking orders now for delivery, January, 1906.

Price, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

Write us for other new and standard varieties.

H. WEBER & SONS
OAKLAND, MD.

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings From flowering stems only. At stock	
Mrs. M. A. Patten	per 100 \$6.00 per 1000 \$50.00
Flamingo	5.00 40.00
Enchantress	3.50 27.50
Boston Market	3.00 25.00
J. H. Manley	3.00 25.00
Fair Maid	2.50 20.00
Harry Penn	2.50 20.00
Mrs. T. W. Lawson	2.50 20.00
Gov. Wolcott	2.50 20.00
HENRY A. STEVENS CO., East St., Dedham, Mass.	2.50 20.00

Mention the Florists' Exchange when writing.

CHICAGO CARNATION CO.

JOLIET, ILL.

Mention the Florists' Exchange when writing.

FOUND

A way to color White Carnations Green

For St. Patrick's Day

Be up-to-date and arrange your show windows with Green Carnations for St. Patrick's Day, March 17. You will not regret it. It's a money maker. I sell the Liquid in quart cases only, \$1.00 per can. One quart will color 1000 or more carnations. Full directions with each can. Non-poisonous.

FRED GEAR, 1113 Vine St., Cincinnati, O.

Mention the Florists' Exchange when writing.

WM. PENN

READY NOW. NO WAITING.

A pleasing shade of pink, on a stiff, wiry stem. Growth clean and upright, no useless foliage. Flowers large enough for all ordinary purposes. Will Produce More Flowers per square foot Than Any Carnation Now Grown.

Worth growing by the thousand, but rather than have you miss trying it, I will mail, free of charge, 25 rooted cuttings for \$2.50.

\$10.00 per 100; \$75.00 per 1000; 250 for \$18.75

Send for List of Other Varieties.

Queen Louise and Lillian Pond at \$10.00 per 1000.

Floriana and Harry Fenn at \$12.50 per 1000.

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS

All in Fine Condition, Well Rooted.

PINK.		LIGHT PINK.		RED.		WHITE.	
	100 1000		100 1000		100 1000		100 1000
Mrs. T. W. Lawson	\$1.50 \$12.50	Enchantress	\$3.00 \$25.00	Estelle	\$2.50 \$20.00	Flora Hill	\$1.00 \$9.00
Guardian Angel	1.00 9.00	Morning Glory	1.50 12.50	Chicago	2.00 15.00	White Cloud	1.25 10.00
		Mrs. Higinbotham	1.25 10.00	Adonis	2.50 20.00	Her Majesty	1.50 12.50
						CRIMSON.	
						Harlowarden	2.00 15.00

WIETOR BROS.,

51-53 Wabash Avenue, Chicago, Ill.

Mention the Florists' Exchange when writing.

CANADIAN NEWS

TORONTO.—The Toronto annual carnation show was held in St George's Hall on Thursday last, the 16th inst. The day was quite cold, as had been the preceding days also, and on account of the snow many trains were delayed, and some of the best exhibits were late in arriving. The hall was not so well filled as usual, still there was a fine exhibit; the show, however, was not well patronized by the public and the extreme cold kept many of our growers at home. The competition for the challenge cup was very close, and Wm. Scott, of Buffalo (whom we are always glad to see here, and who is able again to be about), had quite a job judging the exhibits. The cup was again won by the Chicago Carnation Company, with a fine vase of Lady Bountiful. They also staged fine vases of Enchantress, and Cardinal, which were very good, but were run very close by the Cottage Gardens Company, with vases of Robert Craig and Lieutenant Peary, and by John E. Haines, with his namesake. Charles Turp, of Toronto, also put up a fine vase of Lady Bountiful; E. G. Hill Co., of Richmond, sent a vase of Lady Bountiful, and also one of Cardinal; they did not arrive until late in the evening, long after the stock had been judged. This was unfortunate for Mr. Hill, for the cup would have gone to Richmond; Mr. Scott, on being brought back to the hall, scored Lady Bountiful equal to the prize winner and the Cardinal one point better; then, Mr. Hill has won the cup once. All agreed his vase of Cardinal was the best in the hall. An exhibit of My Maryland did not arrive at the show at all. The prize for a collection of carnations was taken by John H. Dunlop with a very nice exhibit, among which were Flamingo, Lady Bountiful, Harlowarden, Enchantress and Mrs. Lawson, all very fine. The second was taken by the Chicago Carnation Company, with a smaller exhibit of very good flowers among which were fine Fiancee, Wm. Fendley, of Brampton, came third with a good lot.

The first prize for a general collection of cut flowers was won by John H. Dunlop, with a very nicely displayed exhibit. Wm. Fendley, of Brampton, took second in this lot. There was a fine show of violets, both double and single, some of the singles being shown with leaves, and had exceptionally long stems. The groups of plants were hardly up to the usual standard here, as the

weather was too cold to risk moving many of them. Manton Bros. took first and John H. Dunlop second. The plants shown were azaleas, rhododendrons, hyacinths, Harrisii lilies, ericas and ferns. J. Bennett, of Montreal, sent a few very fine Pierson and Boston ferns; they were very favorably commented on by the trade here, as we seldom see such fine stock grown in such small pots.

Wm. Friedling, who came along with the Chicago Carnation Co.'s stock, made many friends here.

The Dale Estate were not represented at the show and were greatly missed; we always expect some of them down at our exhibitions. C. Webster, of Hamilton, was present; Charlie always likes to see what is up-to-date.

Geo. Mills, our superintendent, and Ernst Collins, our secretary, worked very hard and did all they could to keep things going.

Mr. Friedling brought our cup over for us to look at it and took it away with him again; they have now two claims on it, but they must mind next year, as it came very near going to Richmond this time.

Our president, George Douglas, worked like a beaver both on the day of the show and the day after, so that, although the exhibition was not up to that of former years, we are satisfied it was a good one.

Business continues active, with nearly all stock, except roses, both good and plentiful. The plant trade has been very dull owing mostly to the very cold weather, but just now there appears to be a break, so we may expect an improvement soon.

Chas. Tidy, of King street, has been getting some nice cattleyas from the Dale Estate; he says they are going into orchids extensively again. They have got a considerable quantity of cattleyas and are getting, he says, a car load of lilies.

The trade got somewhat of a setback this week by the postponement of several important functions that were to be given in honor of the new Governor-General, though illness of his family; his visit will be delayed some weeks.

THOS. MANTON.

Cleveland.

News Items.

Monday evening was clear and crisp, with a temperature 10 degrees below zero, but that fact did not deter the valiant ones from attending the Florists' Club carnation exhibit. It was truly a fine display of carnations, roses and sweet peas. The exhibitors were Bate Bros., G. M. Nauman, C. Hagenburger, and C. Merkel & Son, of Mentor, Essex Greenhouses, H. A. Hart, Gasser Company, J. D. Thompson Carnation Company, and W. J. Palmer & Son. Certificates of merit were awarded to J. D. Thompson Carnation Company, Joliet, Ill., for Robert Craig; W. J. Palmer & Son for Red Lawson; and to J. M. Gasser Company for General MacArthur rose. The Essex Greenhouses received two certificates, one for roses and one for sweet peas. Others received first and second premiums. The judges were J. S. Wilson, Chicago; E. George, Painesville, and Adam Graham.

A recent trip to the greenhouses of the Cleveland State Hospital at Newburg showed them to be in splendid shape; plenty of fine primulas, cinerarias, roses and carnations, and a large assortment of decorative plants filled the central house. Two houses are utilized for propagating, a great many plants being used in bedding. G. Lundy, the florist, is an enthusiastic exponent of carpet bedding in the Summer.

George Jacques, gardener for William Comins, has just arrived home from an extended tour through England.

Roman Wasco, of Glenville, is sending in beautiful violets with long stems, fine color and delightful odor. G. M. Nauman is cutting exceedingly fine lily of the valley.

This city is very short on small ferns.

Mrs. Ella Grant Wilson has returned from Palm Beach, Fla. Frank Piggot, who has been quite sick, is convalescent now.

Wm. Hageman and John Scheepers were in Cleveland last week. O. G.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI

The Most Magnificent Tree Fern in Cultivation.

Extra Large Specimens.

- 12 in. pots \$15.00 each; \$25.00 per pair
- 10 in. pots 5.00 each; 9.50 per pair
- 8 in. pots 2.75 each; 32.00 per doz.
- 7 in. pots 1.75 each; 20.00 per doz.
- Adiantum Cuneatum, 4 in. \$15.00 per 100
- Adiantum Rhodophyllum, 4 in. 20.00 per 100
- Adiantum Rhodophyllum, 3 in. 12.00 per 100

ANDERSON & CHRISTENSEN, Telephone Call 14 F., Short Hills, N. J. Mention the Florists' Exchange when writing.

PALMS AND FERNS

- Pierson and Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; 5 in., \$25.00 per 100; 6 in., \$40.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety, from 2 1/4 in. pots, \$3.00 per 100; \$25.00 per 1000. Lantana Bonbonica, 3 in., pots, \$5.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in., and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00, 8 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each; Arecia Luteocens, 4 in., \$20.00; 5 in., \$50.00 per 100; 8 in., \$1.00 each. Larger plants from \$1.50 up. Araucaria Excelsa, 4 in., 45c; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Arancaria Compacta, from \$1.00 each. Pandanus Utilis, 8 in. pots, 50c. Dracaena Indivisa, 6 in. pots, \$15.00 per 100. Phoenix Reclinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$9.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Azaleas, 10 in.-12 in., \$35.00 per 100. Larger sizes at lowest rates. Plants in fine condition.

JOHN BADER,

Troy Hill, Allegheny City, Pa.

Mention the Florists' Exchange when writing.

A Few Good Things You Want

- Kentias. As fine a lot of single and made up plants as ever grown, in 4-in., 5-in., 6-in., 7-in. and 8-in. pots, at 20c, 35c, 75c, \$1.50 to \$3.00 each.
- Dracaena Indivisa, 3, 4 and 5 in., \$5.00, \$10.00 and \$25.00 per 100.
- Asparagus Plumosus, 2 and 3 in., \$4.00 and \$8.00 per 100.
- Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.
- Geraniums, Jean Vland, S. A. Nutt, Castellane, John Dwyer, Perkins, etc.
- Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100.
- Unrooted Cuttings of Carnations. The best and cheapest way to buy them. Queen Louise, Fortia, Crocker, Oodeoengh, 50c, per 100. Lawson, \$1.00 per 100.
- Wagon Wheel, 2 in., \$2.00 per 100.
- Gladiaholi Bulbs, fine mixture, 75c, per 100, \$8.00 per 1000.
- German Ivy, 2 in., \$2.50 per 100. Cash with order

GEO. M. EMMANS, Newton, N. J.

Mention the Florists' Exchange when writing.

200 BARGAINS

- 200 Extra Fine Nephrolepis Fosteriana, 4 inch, full and bushy; good for immediate sales or strong enough to shift into 6-inch pots, 12c.
 - 15 Billbergia, large plants, 14 inches across, 50c. each. CASH, PLEASE.
- R. G. HANFORD, NORWALK, CT.
Mention the Florists' Exchange when writing.

Boston Ferns

- Extra fine stock, out from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100.
 - Kentias, Rubbers, Asparagus, Plumosus Nanus. Cash or references, please.
- L. H. FOSTER, 45 King St. DORCHESTER, MASS.
Mention the Florists' Exchange when writing.

EMERSON C. McFADDEN

Wholesale Florist and Grower Specialties
ASPARAGUS-SMILAX-ROSES
Tel. 28 A SHORT HILLS, N. J.
Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON
JOHN BURTON, Receiver.
ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS
Market and 49th Sts., PHILADELPHIA, P. A.
Mention the Florists' Exchange when writing.

ASSORTED FERNS

4 inch, suitable for large Jardinieres and basket work, in 10 good varieties, \$15.00 per 100.
Asparagus Plumosus Nanus, 4 in. . . \$20.00 per 100
Asparagus Sprengeri, 4 in. 12.00 per 100

ASSORTED FERNS FOR JARDINIERS

In all the best varieties, fine bushy stock, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. 500 at 1000 rate.

Telephone Call 14 F., Short Hills, N. J. Mention the Florists' Exchange when writing.

ARAUCARIA EXCELSA

From \$1.25 to \$2.00 each.
Kentia Belmoreana, from 50c. to \$5.00 each.
Rubber Plants, from \$6.00 per doz. up.
Cyclamen, \$3.50 per doz. up.

WM. A. BOCK,

NO. CAMBRIDGE, MASS.
Mention the Florists' Exchange when writing.

ORCHIDS, PALMS } ALL SIZES
FOLIAGE PLANTS } AND PRICES
BAY TREES }

JULIUS ROEHRS CO.
Exotic Nurseries
RUTHERFORD, N. J.
Mention the Florists' Exchange when writing.

JOSEPH HEACOCK WYNCOTE PA.

Grower of
KENTIA BELMOREANA AND
KENTIA FORSTERIANA
Mention the Florists' Exchange when writing.

KENTIA BELMOREANA

Fine clean stock, in 4 in. pots, large enough for 5 in., 25c. each; 2 1/2 in., nice for center of fern dishes, etc., 10c. each. \$9.00 per 100. Lantana Bonbonica, 4 in., 15c. each. Asparagus Plumosus 2 1/2 in., \$3.00 per 100. Geraniums, Mme Sallerol, silver leaf, 2 1/2 in., \$2.00 per 100.

H. WESTON, Hempstead, N. Y.
Mention the Florists' Exchange when writing.

ORCHIDS

Arrived in fine condition. Cattleya Mendellii Dendrobium Wardianum, Oncidium Tigrinum Unguiculatum and Lilia Anceps.
We have also for immediate delivery the grown bulbs of Calanthe Veitchii.

LAGER & HURRELL, Summit, N. J.
Orchid Growers and Importers
Mention the Florists' Exchange when writing.

An Exceptional Opportunity

For \$1.00 I will send you, express or mail prepaid, 25 of our Cryptomeria Japonica from pots. Takes the place of Araucaria Excelsa. Every florist should keep it in stock. Can also supply Asparagus Plumosus Nanus, Smaller Snapdragon, Cupheas, Greivilles Robusta, Sweet Alyssum, Asters, etc.

E. I. RAWLINGS, QUAKERTOWN, PA.
Mention the Florists' Exchange when writing.

- Asparagus Plumosus Nanus, 3 in., 3 cts; 1 1/2 in., 1 1/2 cts.
- Sprengeri, 2 in., 1 1/2 cts.; Alyssum, Oint Double, 2 in., 2 cts.
- Rooted Cuttings: Prepaid, per 100. Alyssum Giant, 75c.; Ageratum, Gurney, 50c.; Alternanthera, best Red and Yellow, 45c.; Pal Rooted extra strong in soil, 50c.; \$4.00 per 100 prepaid. Fuchsia, Tropaeas, and other good sorts, \$1.25; Giant Marguerite Daisy, white Rose Geranium, strong; Double Petunia 10 very best sorts; Heliolepis, blue, \$1.00. CAB RYER FLORAL CO., Shippensburg, Pa.
Mention the Florists' Exchange when writing.

ASSORTED FERNS FOR JARDINIERS

Good, bushy plants in all the best varieties, 2 1/2 in., \$3.00 per 100; \$25.00 per 1000; 50c at 1000 rate.
Adiantum Cuneatum, 4 in., \$15.00 per 100; 3 in. \$5.00 per 100.

Cyrtomium Falcatum, 4 in., \$12.00 per 100.
FRANK ESKESEN, Madison, N. J.
Mention the Florists' Exchange when writing.

SCOTTII

The Most Graceful Nephrolepis Known.

Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced.

Consult any grower who has bought Scottii and he will tell you that it is as far ahead of the Boston as that variety is ahead of all other introductions.

See my ad. on page 199 of last week's FLOBLISTS' EXCHANGE for full particulars.

JOHN SCOTT,
Kasp Street Greenhouses, BROOKLYN, N. Y.
RANCH:
E. 45th St. and Kutland Road, Flatbush.
TELEPHONE, 1207 WILLIAMSBURG.

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Orchid Peat FOR IMMEDIATE DELIVERY.

Our special price on Rooted Peat expires March 1. Write at once.
G. W. BROWNELL & CO., Walden, N. Y., Grange Co., N. Y.
Mention the Florists' Exchange when writing.

Asparagus Sprengeri.

Strong, ready to shift, 2 in. \$2.00 per 100; \$19.00 per 1000.

DEAN FERRIS, Peekskill, N. Y.
Mention the Florists' Exchange when writing.

February 25, 1905

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Wholesale Commission Dealer in Cut Flowers
Telephone, 106 W. 28 St., NEW YORK
Consignments Solicited.
Prompt Payments.
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CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.
Coogan Building NEW YORK
Open every Morning at Six o'clock for the Sale of
Cut Flowers
Wall Space for advertising purposes to Rent
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18 West 30th Street, New York City
Telephone No. 825 Madison Square.

GROWERS, ATTENTION!

Always ready to receive Fine Stock

WILLIAM H. GUNTHER

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Phone, 651 MADISON SQ. NEW YORK
Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

"VICTORY"

To be disseminated 1906. Also a complete line
of choicest flowers.
ALEX. J. GUTTMAN, Wholesale Florist
52 West 29th Street, New York
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Commission Dealer in
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Wholesale Florist
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ALFRED H. LANGJAHR

All Choice Cut Flowers in Season
55 West 28th St., New York
Telephone 3924 Madison Square.
ESTABLISHED 1881 BUY FROM SHIP TO ME
Mention the Florists' Exchange when writing.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of
CUT FLOWERS.
Consignments solicited. Prompt settlements
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JAMES McMANUS Telephone 759 50 W. 30th St., New York
Madison Square
Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & HUGHES

Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES - Violets, Carnations and Rosas
Shipping orders receive prompt attention. Consign-
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38 WEST 28th STREET, NEW YORK
AND CUT FLOWER EXCHANGE
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YOUNG & NUGENT

WHOLESALE FLORISTS
42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable
Novelties. We employ competent florists in our pack-
ing department, and owing to our long experience in shipping we guarantee out-of-town customers that they
will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY

WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones: { 2200 Madison Square 57 West 28th Street, NEW YORK
{ 2201 Madison Square

Wholesale Prices of Cut Flowers, New York, February 24, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special extra	40.00 to 20.00	20.00 to 25.00	Carnations	In'r grades, all colors.....	.75 to 1.00		
	" No. 1	10.00 to 15.00	10.00 to 15.00		STANDARD VARIETIES	White.....	1.50 to 2.00	
	" No. 2	4.00 to 8.00	4.00 to 8.00			White.....	Pink.....	1.50 to 2.00
	" No. 3	2.00 to 4.00	2.00 to 4.00				Yel. & Var.	Red.....	1.50 to 2.00
	Bride, 'Maid, fancy—spe' extra	10.00 to 12.00	10.00 to 12.00		Yel. & Var.			White.....	2.00 to 3.00
	" No. 1	6.00 to 10.00	6.00 to 10.00			NOVELTIES		Pink.....	2.00 to 3.00
	" No. 2	4.00 to 6.00	4.00 to 6.00				LILY OF THE VALLEY	Red.....	2.00 to 3.00
	Golden Gate	2.00 to 3.00	2.00 to 3.00		MIGNONETTE, ordinary			Yel. & Var.	2.00 to 3.00
	Liberty	3.00 to 12.00	3.00 to 12.00			NARCISSUS, Paper White.....		White.....	3.00 to 6.00
	Meteor	5.00 to 40.00	5.00 to 40.00				" Ordinary Yellow.....	Double Yellow.....	1.00 to 2.00
	Mme. Abel Chatenay	3.00 to 8.00	3.00 to 8.00		PANSIE, per dozen bunches.....			.....	1.00 to 1.50
	ADIANTUM	2.00 to 10.00	2.00 to 10.00			ROMAN HYACINTHE.....		.....	1.00 to 2.00
	CROWANUM	.50 to .75	.50 to .75				SMILAX.....	.....	10.00 to 12.00
	ASPARAGUS	25.00 to 50.00	25.00 to 50.00		STOCKS, per bunch.....			.....	.10 to .25
	" Sprengerl, bunches	15.00 to 35.00	15.00 to 35.00			SWEET PEAS, per doz. bunches		.....	1.00 to 1.50
	CALLAS	8.00 to 10.00	8.00 to 10.00	TULIPS.....			.....	2.00 to 4.00
	CATTLEYS	50.00 to 60.00	50.00 to 60.00		VIOLETS.....		.....	.25 to .40
	CYPRIPEDIUMS	6.00 to 10.00	6.00 to 10.00			" specials.....	.....	.50 to .75
	DAISIES	.50 to 1.50	.50 to 1.50					
	FREESIAs, per bunch	.10 to .25	.10 to .25					
	LILAC, per bunch	.75 to 1.00	.75 to 1.00					
	LILIES	6.00 to 10.00	6.00 to 10.00					

WALTER F. SHERIDAN

Wholesale Florist
Telephone, 902 39 WEST 28TH ST., NEW YORK
Madison Square
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
Meteor, Lily of the Valley, Carnations
Telephone, 1998 JOHN I. RAYNOR, 49 West 28th St., NEW YORK
Madison Square

We have a fine grade of every-thing in market at present.
Send us a Trial Order and we will do the rest.

EDW. C. HORAN

Receiving Daily Fine
PRES. CARNOT
KAISERINS
METEORS
BEAUTIES
Etc.

55 West 28th Street
NEW YORK
Telephone, 421
MADISON SQUARE
CUT FLOWERS AT WHOLESALE
Mention the Florists' Exchange when writing.

Chicago.
News Notes.
The past week the trade has gone through a variety of weather, from 24 degrees below to 45 degrees above zero; as a consequence, business has suffered considerably. At the present writing, the weather is all that one could expect at this time of the year, and if such should continue trade should take on a general Spring impetus. Plantsmen have been complaining bitterly during the cold weather, finding it impossible to move any of their stock. The shipping of rooted cuttings has also been interfered with to a great extent, dealers in these not caring to take any chances on forwarding them, as the express companies would not guarantee any deliveries. Shipping trade in cut flowers has also suffered.

Peter Reinberg is getting in a good supply of long-stemmed American Beauty; his other roses are also in fair shape, with a good crop from now until the end of the season.
Wiator Bros. are cutting extra fancy carnations, their Enchantress being as good as any ever seen on exhibition.
John Muno at Rogers Park has discarded nearly all roses with the exception of American Beauty and Mme. Abel Chatenay, and is growing carnations. He has had better returns from the latter than he had from roses.

Sinner Bros. will rebuild part of their range of glass the coming Summer. Their Bride and Bridesmaid roses are in fine shape.
Jacob Philipp, Sr., a vegetable grower on Tonhy and Western avenues, will build five houses, each 26x150 feet, this year, to be planted to carnations. He is one of the oldest vegetable growers in that section, and this will be his first venture in growing cut flowers.
G. Svenson, of Elmhurst, will discard the growing of double violets on account of the disease having taken nearly all of his present stock.
Joseph Wolniewicz, of 1146 School street, heard vandals destroying the glass on his greenhouse Sunday night, and replied with a shotgun, wounding one of them. The others were also captured.

The Florists' Club had a stereopticon lecture by E. G. Rutzahn Thursday night, February 23. A good attendance. The subject was "How to Make Chicago Beautiful," with special reference to the florist's relation to this subject, as a means of advancing the business interests of the club.
ROBERT JOHNSTONE.

Advertisers who look for
PAYING RETURNS
Use the columns of
The Florists' Exchange



Telephone Call: 756 Madison Sq.
Mention the Florists' Exchange when writing
THE AMERICAN CARNATION
Price, \$3.50
A. T. DELA MARE PTG. & PUB. CO. LTD.
2 to 8 Duane St., N. Y.

CARNATIONS

In Any Quantity. No better stock coming to this market
Mention the Florists' Exchange when writing.

THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A. M. to 8 P. M. 1217 Arch St., Philadelphia, Pa.

White Lilac, Gardenias, Orange Blossoms, Daffodils

and other
seasonable
SPRING
FLOWERS

Philadelphia Wholesale Flower Market
1235-37 Filbert Street, PHILADELPHIA, PA.

**GARDENIAS \$3.00 Per Doz.
WHITE VIOLETS**

Special price
on regular
orders and in
quantity

SAMUEL S. PENNOCK
THE Wholesale Florist of Philadelphia

R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers
and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses. Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN
7.30 A. M. to 8.00 P. M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

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FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.
504 Liberty Ave., PITTSBURG, PA.

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Wm. J. BAKER
Wholesale Florist
1432 S. Penn Square, PHILADELPHIA, PA.
Seasonable Cut Flowers
Fine Quality
Both 'phones.

EDWARD REID
Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Bet. Market and Chestnut Streets
Choicest Stock Always on Hand
Telephone 1-42-26-A.

St. Louis.
News Notes.
Henry Ostertag on Monday announced that he was a candidate for House of Delegates at the Spring election from his ward, the big Twenty-second.
F. H. Meinhardt left Sunday night for Fort Wayne, Ind., to attend the funeral of Judge Vesey's brother, who died suddenly from lockjaw.
Arthur Ellison will be the only florist bowler representative at Milwaukee this week from St. Louis attending the National Bowling Congress meeting.
John A. Rau has been admitted into partnership as the junior member of the St. Louis Seed Co. William F. Nichol, the senior member, has been elected president and general manager.
Mrs. Frank M. Ellis accompanied a party of lady bowlers to Milwaukee on Sunday night. Mrs. Ellis has become quite an expert at bowling, and often beats her husband on the alleys.
Mr. and Mrs. Fred C. Weber will visit Germany this Summer. They will leave for company Theo. Miller. They leave here June 1, and say they will be back for the S. A. F. O. H. convention in August.

DUMONT & CO.
Wholesale Florists
Carnations a Specialty
No. 1305 Filbert St., Philadelphia
Bell and Keystone 'Phones.
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J. B. MURDOCH & CO.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
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WM. J. MOORE
Wholesale Florist
1235-37 FILBERT STREET
"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.
Bell and Keystone 'Phones.
Consignment of CARNATIONS and ASPARAGUS, Solicited.
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Worcester Conservatories
Wholesale Growers of
CUT FLOWERS
Prompt attention given all orders.
WORCESTER, MASS.
Mention the Florists' Exchange when writing.

Headquarters in
Western New York
For ROSES,
CARNATIONS
And all kinds of Seasonable Flowers.
WM. F. KASTING
Wholesale Commission Florist
ALSO DEALER IN FLORISTS' SUPPLIES
AND WIRE DESIGNS
383-87 Eilcott St. BUFFALO, N. Y.
GIVE US A TRIAL WE CAN PLEASE YOU
Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Names and Varieties	Boston Feb. 21, 1906	Phil'delphia Feb. 20, 1906	Baltimore Feb. 22, 1906	Buffalo Feb. 20, 1906	Pittsburg Feb. 20, 1906
A. BEAUTY, fancy—special	50.00 to 60.00	60.00 to 75.00	..... to	40.00 to 50.00	50.00 to 60.00
" extra	20.00 to 50.00	..... to 45.00	40.00 to 50.00	25.00 to 30.00	18.00 to 25.00
" No. 1	10.00 to 20.00	..... to 40.00	25.00 to 35.00	10.00 to 15.00	8.00 to 12.00
" Culls and Ordinary	8.00 to 10.00	..... to 25.00	6.00 to 10.00	2.00 to 6.00	3.00 to 5.00
" Bride, "Maid, fancy—special	15.00 to 25.00	..... to 20.00	..... to .....	..... to .....	..... to 15.00
" " extra	10.00 to 15.00	..... to 15.00	..... to 10.00	10.00 to 12.00	..... to 12.00
" " No. 1	6.00 to 10.00	10.00 to 12.00	..... to 7.00	6.00 to 8.00	8.00 to 10.00
" " No. 2	4.00 to 6.00	5.00 to 8.00	6.00 to 6.00	3.00 to 5.00	4.00 to 6.00
" " Golden Gate.....	..... to	6.00 to 12.00	5.00 to 10.00	3.00 to 8.00	8.00 to 12.00
" " K. A. Victoria.....	..... to .....	..... to	6.00 to 10.00	..... to .....	..... to
" " Liberty	8.00 to 40.00	6.00 to 40.00	..... to	4.00 to 15.00	6.00 to 20.00
" " Meteor.....	..... to .....	..... to	5.00 to 8.00	3.00 to 12.00	6.00 to 12.00
" " Perle.....	..... to .....	..... to	4.00 to 6.00	3.00 to 6.00	2.00 to 8.00
ORCHIDS—Cattleyas.....	..... to	60.00 to 60.00	..... to .....	..... to .....	..... to
" Inferior grades, all colors.....	..... to .....	..... to	1.00 to 1.50	1.00 to 1.50	.75 to 1.00
Carnations					
" STANDARD					
" White	1.00 to 2.50	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	2.00 to 3.00
" Pink	1.00 to 2.50	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.50 to 2.00
" Red	1.00 to 2.50	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.50 to 2.00
" Yellow and var.	1.00 to 2.50	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00	1.50 to 2.00
" FANCY					
" White	2.50 to 4.00	3.00 to 4.00	..... to	3.00 to 4.00	..... to
" Pink	2.50 to 4.00	3.00 to 4.00	..... to	3.00 to 4.00	..... to
" Red	2.50 to 4.00	3.00 to 4.00	..... to	3.00 to 4.00	..... to
" Yellow and var.	2.50 to 4.00	3.00 to 4.00	..... to	3.00 to 4.00	..... to
" " (NOVELTIES)	4.00 to 5.00	..... to	4.00 to 5.00	6.00 to 6.00	..... to 6.00
" ADIANTHUM.....	.60 to .75	1.00 to 1.50	..... to 1.00	.60 to 1.00	.75 to 1.00
" ASPARAGUS.....	..... to 50.00	60.00 to 75.00	25.00 to 60.00	40.00 to 50.00	30.00 to 60.00
" " Sprengel, bunches.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" CALLAS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" DAFFODILS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" DAISIES.....	..... to .....	..... to .....	..... to .....	..... to	1.00 to 3.00
" FREESIAs.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" HYACINTHS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" LILAC, per bunch.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" LILIES	12.00 to 15.00	12.50 to 15.00	10.00 to 12.50	12.50 to 16.00	16.00 to 18.00
" " LILY OF THE VALLEY	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
" " MIGNONETTE	1.00 to 2.00	3.00 to 4.00	2.00 to 3.00	3.00 to 5.00	1.00 to 2.00
" " " fancy	2.00 to 4.00	..... to .....	..... to .....	..... to .....	..... to
" " NARCISUS	2.00 to 4.00	3.00 to 4.00	2.50 to 3.00	2.00 to 8.00	4.00 to 8.00
" " PANSIES.....	..... to .....	..... to .....	..... to .....	..... to	1.00 to 2.00
" " SMILAX	10.00 to 12.00	12.50 to 15.00	15.00 to 25.00	15.00 to 18.00	12.50 to 15.00
" " SWEET PEAS	1.00 to 2.00	.50 to 1.00	..... to 1.00	.50 to .75	.60 to 1.50
" " TULIPS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
" " VIOLETS.....	.35 to .60	.50 to .75	.50 to .75	.30 to 1.00	.60 to 1.00

BOSTON, MASS.
WELCH BROS.
PROPRIETORS
CITY HALL CUT FLOWER MARKET
15 PROVINCE ST.—9 CHAPMAN PL.
Kaiserlins
Violets
Carnots
Orchids
Valley
Carnations
Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268
Mention the Florists' Exchange when writing.

BERGER BROS. WHOLESALE FLORISTS
Bell and Keystone 'Phones
1220 Filbert Street, PHILADELPHIA
Mention the Florists' Exchange when writing.

At the big banquet given to Dr. Lewald, German Commissioner to the World's Fair, by the German-American citizens, at the Mercantile Club, the decorations were furnished by Ostertag Bros. They were greatly admired.
Carl Beyer and Wm. Schray have a fine stock of plants, which will come in just right for the Easter trade.
It is rumored that the St. Clair Floral Company at Belleville will open a retail store in East St. Louis, under the management of Kester Halstedt.
C. W. Wors, the correspondent for The American Florist, also one of the leading street corner merchants, reports that violets are selling well on the street corners.
ST. PATRICK.
BRATTLEBORO, VT.—Roland H. Messenger of Barre, Mass., succeeds Alexander E. Whitley as florist at the Bradley greenhouses on Tyler street.
CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON
Carnations, Roses, Valley 11 South 16th Street, PHILADELPHIA
Mention the Florists' Exchange when writing.

Boston.

News Notes.

J. J. Comley, of Newburyport, sustained quite a loss from escaping gas in his houses the past week. Edward Hatch, as is his custom, entertained a few of his friends at the "Windmill," his country place at Wenham, on Washington's Birthday. W. H. Elliott returned Saturday from a trip to Jamaica, Cuba and Porto Rico. J. A. Pettigrew will read a paper at the meeting of the North Shore Horticultural Society, Manchester, Mass., March 17, on "Village and Wayside Improvement." Oscar L. Dorr, of Sharon Heights, is sending in some of the best double violets ever seen in Boston to the Park street market. The Horticultural Club met Thursday evening with Robert Montgomery in the chair. J. W. DUNCAN.

Newport, R. I.

News Notes.

Samuel Speers and his sister have gone to Pittsburg, Pa., to attend the funeral of their uncle, Arthur Kenivill. Street Commissioner Hamilton has recovered somewhat from his recent illness and returned to his Winter home in Portsmouth, R. I. The "Bonnie Brae" Nurseries, of New Rochelle, N. Y., through A. H. Folger, have been looking after their trade here the past week. Mr. Folger secured a goodly volume of business. Florist Hass is having his Thames street store painted and renovated in anticipation of a good Summer season's trade. Brandt's lease of his present Thames street quarters expiring shortly; many of us hope that he may select a new florist's location in the Broadway district among the rest of the craft. F. W.

Buffalo.

News Notes.

When taking in consideration the very inclement weather, of severity unusual in steadiness for some weeks, the business done recently may be called good. Flowers, while not scarce at all, have naturally not become burdensome in any way. E. J. Buxton, of 1103 Niagara street, retires from the business after many years of success locally, having, we understand, made a sale of his property. Joe Sangster, who has long held a leading position with Anderson in his retail store, has left us to fill a position with Edward Seery, of Paterson, N. J. W. W. Wells, formerly from Chicago, and for several years manager of C. D. Zimmerman's Chippewa street store, is about making a change; it is reported that he intends to engage in business on his own account. A meeting of the club is announced for Wednesday afternoon of this week, at Kasting's store. Nomination of candidates to compete for election honors at the annual March meeting is on the program. A grower's exhibit of new carnations is also announced.

VIDI.

BELVIDERE, ILL.—Alderman John W. Lyon, of the Lyon & Co. greenhouses, is announced as a candidate for mayor of this town.

National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 655 John. HARRIS H. HAYDEN (Late Manager of the Napers Chemical Company), President EDWARD MCK. WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer

56 PINE ST., Wallace Bldg., N. Y. CITY (Rooms 611-612)

Mention the Florists' Exchange when writing.

SWEET PEAS

Pure white and pink and white. MARIE LOUISE VIOLETS Can make regular shipments. FRANK MCGOWAN, Utica, N. Y. Mention the Florists' Exchange when writing.

Pittsburg

The Week's News.

At last there is a change in the weather with the temperature above the freezing point, which is quite a relief, for the growers are anxious to get some outside work with hot beds, etc. It will help trade, which has been rather slow the past week. There is plenty of good stock on the market, and prices have not changed any. Politics kept some of the boys busy last week and resulted in landing two of them. J. Bader was elected to council in Allegheny City by a majority close to 300, and W. Clark, of the Pittsburg Cut Flower Company, was elected school director in his town. Both are good men, and it is a pity we have not a few more like them—honest and fearless. J. W. Ludwig expects to go to the inauguration of the President in Washington with the Tariff Club of Pittsburg. J. B. Murdoch & Co. expect to add greatly to their plant this year for the growing of cut flowers exclusively. R. J. Irwin, representing Vaughan's Seed Store, was a visitor during the week. E. C. REINEMAN.

Worcester, Mass.

News of the Week.

F. E. Keyes, son of the late C. A. Keyes, has purchased from the heirs the florist business of his father, and took possession February 20. Mr. Keyes was associated with his father many years. He will make a few changes, but has not decided the full course he will follow. One important change will soon take place on Main street. A large grocery store has taken in an adjoining store, and one of the new windows, with quite a number of feet of floor space, will be occupied as a branch store by H. F. Littlefield. Mr. Littlefield expects to take possession about March 1. CAROLUS.

Catalog Engravings and ILLUSTRATIONS

that print EASILY. That's the kind we make—have been since '73. Horticultural JAS. M. BRYANT, Engraving and Printing 706 Chestnut Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. Try them once to use them always. Size No. 0 3x 4x20... \$2.00 per 100, \$19.00 per 1000 1 3x 4x16... 1.90 " 17.50 " 2 3x 6x18... 2.00 " 19.00 " 3 3x 4x 8x18... 2.50 " 23.00 " 4 3x 5x24... 2.75 " 26.00 " 5 4x 8x28... 3.00 " 28.50 " 6 4x 8x28... 3.75 " 36.00 " 7 4x 16x20... 6.50 " 54.00 " 8 3x 7x21... 3.00 " 28.50 " 9 4x 10x35... 6.50 " 62.00 " 10 4x 7x20x20... 7.50 " 67.50 " 11 4x 8x28x30... 3.00 " 28.50 "

Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.

THE LIVINGSTON SEED CO., Box 104, Columbus, O.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdam, Notts. Address EDITORS OF THE "H. A." Chilwell Nurseries, Lowdam, Notts European Agents for THE AMERICAN CARNATION Mention the Florists' Exchange when writing.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

E. C. AMLING The Largest, Best Equipped, Most Centrally Located Wholesale Cut-Flower House In Chicago 32, 34, 36 Randolph St., CHICAGO, ILL.

J. B. DEAMUD Successor to Illinois Cut Flower Co. Wholesale Cut Flowers Consignments Solicited. 51 and 53 Wabash Avenue, CHICAGO

CHARLES W. McKELLAR Wholesale Commission Florist And Dealer In all Florists' Supplies 51 WABASH AVENUE, CHICAGO

Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Name and Varieties	Chicago	St. Louis	Cincinnati	Milwaukee	Toronto
	Feb. 14, '05	Feb. 13, '05	Feb. 20, '05	Jan. '05	Feb. '05
A. BEAUTY, fancy—special.....	40.00 to 45.00	30.00 to 40.00	40.00 to 50.00	..... to .....	..... to
" extra.....	82.00 to 86.00	20.00 to 30.00	80.00 to 40.00	..... to .....	..... to
" No. 1.....	18.00 to 24.00	10.00 to 15.00	12.00 to 20.00	..... to .....	..... to
" Cullis and Ordinary.....	4.00 to 12.00	5.00 to 6.00	4.00 to 6.00	..... to .....	..... to
Bride 'Maid, fancy—special.....	12.00 to 15.00	6.00 to 8.00	..... to 12.00	..... to .....	..... to
" extra.....	8.00 to 10.00	5.00 to 6.00	..... to 12.00	..... to .....	..... to
" No. 1.....	6.00 to 8.00	4.00 to 5.00	..... to 8.00	..... to .....	..... to
" No. 2.....	4.00 to 6.00	3.00 to 4.00	4.00 to 6.00	..... to .....	..... to
" Golden Gate.....	4.00 to 15.00	6.00 to 10.00	4.00 to 8.00	..... to .....	..... to
" K. A. Victoria.....	..... to	6.00 to 10.00	..... to .....	..... to .....	..... to
" Liberty.....	..... to	4.00 to 12.00	4.00 to 8.00	..... to .....	..... to
" Meteor.....	4.00 to 12.00	6.00 to 10.00	4.00 to 8.00	..... to .....	..... to
" Perle.....	4.00 to 10.00	5.00 to 8.00	4.00 to 8.00	..... to .....	..... to
ORCHIDS—Cattleyas.....	40.00 to 45.00	..... to .....	..... to .....	..... to .....	..... to
" Interior grades, all colors.....	.75 to 1.00	1.00 to 2.00	..... to 1.00	..... to .....	..... to
" White.....	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00	..... to .....	..... to
" STANDARD Pink.....	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00	..... to .....	..... to
" VARIETIES Red.....	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00	..... to .....	..... to
" Yellow and Var.....	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00	..... to .....	..... to
" *Fancy— White.....	2.50 to 3.00	4.00 to 5.00	3.00 to 4.00	..... to .....	..... to
" (*The highest grades of standard var) Pink.....	2.50 to 3.00	4.00 to 5.00	3.00 to 4.00	..... to .....	..... to
" Red.....	2.50 to 3.00	4.00 to 5.00	3.00 to 4.00	..... to .....	..... to
" Yellow and Var.....	2.50 to 3.00	4.00 to 5.00	3.00 to 4.00	..... to .....	..... to
" NOVELTIES.....	4.00 to 6.00	..... to .....	..... to .....	..... to .....	..... to
ADIANTUM.....	.75 to 1.50	..... to 1.00	..... to 1.00	..... to .....	..... to
ASPARAGUS.....	35.00 to 50.00	..... to .....	..... to 60.00	..... to .....	..... to
" Sprengerl, bunches.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
CALLAS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
DAFFODILS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
DAISIES.....	.50 to 1.50	..... to .50	..... to .....	..... to .....	..... to
FRESIAS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
HYACINTHS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
LILAC, per bunch.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
LILIES.....	12.00 to 16.00	12.50 to 16.00	..... to 2.00	..... to .....	..... to
LILY OF THE VALLEY.....	3.00 to 4.00	3.00 to 4.00	..... to 4.00	..... to .....	..... to
".....	4.00 to 6.00	3.00 to 4.00	..... to .....	..... to .....	..... to
" fancy.....	6.00 to 8.00	5.00 to 6.00	..... to .....	..... to .....	..... to
".....	2.50 to 4.00	2.00 to 4.00	3.00 to 4.00	..... to .....	..... to
NARCISSUS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
PANIES.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
SMILAX.....	12.00 to 16.00	..... to 16.00	12.00 to 16.00	..... to .....	..... to
SWEET PEAS.....	1.00 to 1.25	..... to .75	..... to .....	..... to .....	..... to
TULIPS.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
VIOLETS.....	.50 to 1.25	.30 to .40	.60 to 1.00	..... to .....	..... to

Wired Toothpicks 10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY W. J. COWEE, Berlin, N. Y. Samples free. For sale by dealers. Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co. MILWAUKEE, WIS. Mention the Florists' Exchange when writing.

SINNER BROS. Wholesale Growers and Shippers of CUT FLOWERS 58-60 Wabash Ave., Chicago, Ill. With the Flower Growers' Co. TELEPHONE, CENTRAL 8067. All telephone and telegraph orders given prompt attention. Mention the Florists' Exchange when writing.

H. G. BERNING Wholesale Florist 1402 Pine Street, ST. LOUIS, MO. Mention the Florists' Exchange when writing.

VAUGHAN & SPERRY

58-60 Wabash Ave., CHICAGO WHOLESALE FLORISTS Florists' Supplies All Cut Flowers at Ruling Market Prices Mention the Florists' Exchange when writing.

HOLTON & HUNKEL CO.

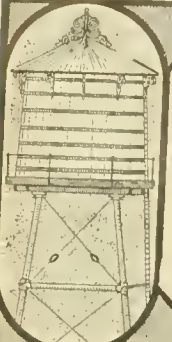
Wholesale Florists Florists' Supplies Manufacturers of Wire designs. 457 Milwaukee Street, MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103. Mention the Florists' Exchange when writing.

HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

Mention the Florists' Exchange when writing.

Special facilities for handling large orders. Write, Wire or Phone
E. A. BEAVEN, Evergreen, Alabama



Absolutely Safe and Reliable. Ask your friends.

Every Second the Strain
On the Materials of a Water Tank Goes on,
If it be kept full.

Make it of inferior material and soon it will give way.

Caldwell Tanks

Never leak.
The Right Stuff goes into them.

W. E. CALDWELL CO., Louisville, Ky.

Mention the Florists' Exchange when writing.

SCRANTON FLORIST SUPPLY COMPANY 201 North Seventh Ave
SCRANTON, PA.

Importers and Manufacturers of FRESH GALAX and LEUCOTHOE
ALL FLORISTS' SUPPLIES SEND FOR CATALOGUE
Mention the Florists' Exchange when writing.

REED & KELLER

122 W. 25th St., NEW YORK
Galax Leaves and a Decorative Greens.

Importers and Manufacturers of FLORISTS' SUPPLIES
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

GYGAS LEAVES

The very best that have ever been sold in this market, also medium qualities for sale at very moderate prices.

L. WERTHEIMBER & CO.,
Foreign & Domestic Specialties,
39 Barclay St., New York.

Mention the Florists' Exchange when writing.

MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000.
DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.



Mention the Florists' Exchange when writing.

NICOTICIDE KILLS

Green Fly Mr. J. A. Budlong, Chicago, Thrips

March 11, 1904, says:

"We have been using Nicoticleide on our whole place now for some time and find it the most satisfactory fumigant we have ever used. We heat entirely by steam, and paint it on the pipes when hot. This application works well and is certainly very effectual."

THE TOBACCO WAREHOUSING & TRADING CO., LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

HARDY CUT DAGGER AND FANCY FERNS

\$1.50 per 1000.

WILD SMILAX, \$4.00 and \$7.00 per case.
GALAX, New crop. Green and bronze. \$1.00 per 1000.

Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelles, Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2818.

Mention the Florists' Exchange when writing.

NICO-FUME

TOBACCO-PAPER INSECTICIDE
BY FAR THE BEST.



SHEETS ARE READY FOR USE
NO FOLDING IS REQUIRED JUST HANG EACH SHEET FROM THE HOLE PUNCHED IN ONE END. THEN LIGHT LOWER END. BLOW OUT FLAME AND LET THE SHEET BURN

NO LIGHTING (SHEET HUNG FROM PLANT STICK)
NO 2 SMOKEING

FOR SALE BY SEEDSMEN

24 Sheets, 75c.; 144 Sheets, \$3.50;
288 Sheets, \$6.50 (only 2 1/2 c. each).

PACKED IN FRICTION-TOP TINS.
Preventing Loss by Evaporation.

Mfg. by Kentucky Tobacco Product Co.
LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

FANCY OR DAGGER FERNS

\$1.25 per 1000.

GALAX, brilliant bronze or green, 75c. per 1000
\$8.50 per case of 10,000. Laurel Festooning
hand-made, full sizes, 4c., 5c. and 6c. per yard
Made fresh daily from the woods. Send us your
orders. We will please you.

Branch Laurel, 35c. per large bundle. South
ern Wild Smilax, \$3.50 per 50 lb. case. Laure
Wreathe and Prince's Pine Wreathe made all
sizes and prices. Prince's
Pine by the lb. and made
into roping. Tell us you
want and we
will name you
prices.

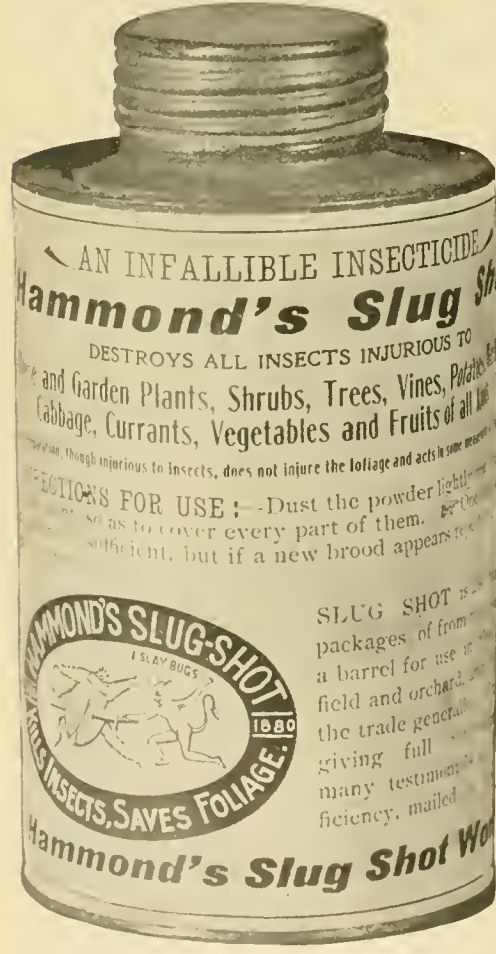


ROWLAND FERN CO.
MILLINGTON
NEW MASS., U.S.A.

Telegraph Office: New Salem, Mass.

Mention the Florists' Exchange when writing.

Hammond's Slug Shot for House Plants



This picture shows the tin, perforated, screw-top Canister filled with Slug Shot for use on plants in pots or in the garden; it is easily filled, when empty, from larger packages; it can be mailed at rate of one cent an ounce postage. It is sold by many seedsmen, and is an article which Retail Florists may find of service to customers. Slug Shot is put up in these tin canisters, perforated-top paper cartons, 5 and 10 lb. bags, 125 lb. kegs, 250 lb. barrels, and loose for garden or greenhouse use. Send for pamphlet on "Bugs and Blights." Our goods are sold by Seed Dealers the country over, and so continuously advertised to the general public. For mildew and blight: "Grape Dust," "Solution of Copper," and "True Blue Bordeaux Mixture." For "San Jose Scale": "Horian" Concentrated Lime, Sulphate and Salt. "Thrip Juice" for all scale.

Twemlow's Old English Liquid Putty, and
"Greenhouse White Paint."
GOOD STUFF, THESE.

HAMMOND'S SLUG SHOT WORKS, Paints, Oil and Chemicals, Fishkill-on-Hudson, N.Y.
Mention the Florists' Exchange when writing.

A. J. FELLOURIS

Wholesale and Retail Dealer in all kinds of

Evergreens Galax Ferns

Galax Bronze or Green

\$1.00 per 1000

FANCY, \$1.50 per 1000
DAGGER, \$1.00 per 1000

468 Sixth Ave., New York

BETWEEN 28th and 29th STREETS
TELEPHONE 406R MADISON SQUARE

Mention the Florists' Exchange when writing.

HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?

It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of one hundred Pounds.

Per doz.
No. 1 will fit from 2 to 5-inch pots 30c.
No. 2 will fit from 5 to 8-inch pots 40c.
No. 3 will fit from 8 to 12-inch pots 50c.

By mail 10c. extra per doz. Sample pair 10c., postpaid. See last week's issue for advertisement of Florists' Letters, etc.

W. C. KRICK, 1184-88 Greene Ave., Brooklyn, N. Y.
Mention the Florists' Exchange when writing.

N. LECAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214
Madison Square

Stands at Cut Flower Exchange
Coogen Bldg., W. 28th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Leucothos Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves
75c. per 1000.

Mention the Florists' Exchange when writing.

UNRIVALED COLLECTION OF SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$9.00; 25-lb. case, \$3.25.

GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHOE SPRAYS—Green or bronze, 5c. per 100; \$7.50 per 1000.

Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.

All Kinds of Florists' Supplies.

L. J. Kreshover, 112 West 27th Street, New York
L. J. Kreshover, Tel. 597 Madison Sq.

Mention the Florists' Exchange when writing.

"Standard for Quality"
GALAX LEAVES, LEUCOTHOE SPRAYS
GREEN SHEET MOSS
WM. G. SMITH, Marion, N. C.

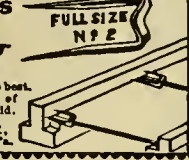
Sold in New York by L. J. Kreshover; Philadelphia, S. S. Pennock; Buffalo, Wm. F. Kasting; Albany, H. L. Menand; Pittsburg, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Rhode & Pmo.

Mention the Florists' Exchange when writing.

Evans Improved Challenge
 Roller bearing, self-oiding device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
 Write for catalogue and prices before placing your orders elsewhere.
QUAKER CITY MACHINE CO.
 RICHMOND, IND.

Mention the Florists' Exchange when writing.

Holds Glass Firmly
 See the Point at PEERLESS
 Glazing Points are the best, 6 rights or lefts. Box of 100 points 75 cts. postpaid.
HENRY A. DEER,
 14 Chestnut St., Phila., Pa.



Mention the Florists' Exchange when writing.

GREENHOUSES.
 MATERIAL FURNISHED AND MEN TO SUPERINTEND ERECTION IF DESIRED.
CYPRESS SASH BARS
 ANY LENGTH UP TO 32 FT. OR LONGER.
HEAT STEARNS LUMBER CO.,
 NEWTONSET, BOSTON, MASS.

Mention the Florists' Exchange when writing.

SUMMER IN WINTER
 BY USING
Standard Greenhouse Boilers
 One cent gets our Catalogue
GIBLIN & CO., Utica, N.Y.

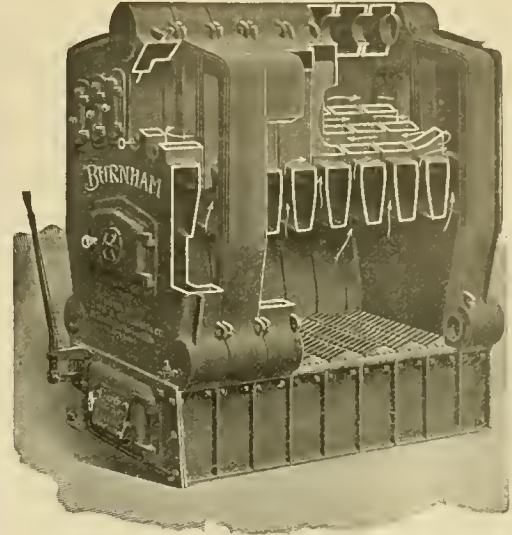
Mention the Florists' Exchange when writing.

CYPRESS
JOHN C. MONINGER CO.
 111-125 Blackhawk St
 Cor. Hawthorne Ave.
CHICAGO, ILL.



Mention the Florists' Exchange when writing.

USE "BURNHAM" BOILERS
 AND REDUCE YOUR COAL BILL



You Want Profits
 which continue to grow.

The reasons why
"BURNHAM" BOILERS

Will save coal for you are that there is a large combustion chamber, also a large active fire surface for each square foot of grate. They heat easily, quickly, efficiently. It takes but a short time to set up one of these boilers.

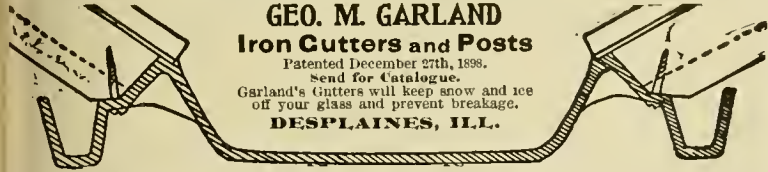
Write to-day to our New York Office for our Catalogue of Greenhouse Construction and Heating and Ventilating Catalogue.

Lord & Burnham Company
 New York Office: St. James Bldg., 1133 Broadway.
 General Office and Works: Irvington-on-Hudson, N. Y.

Mention the Florists' Exchange when writing.

GLASS
 For GREENHOUSES, DRAPERIES, HOTBEDS, CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.
H. COWEN'S SON, 392-94 W. Broadway, NEW YORK
 Mention the Florists' Exchange when writing.

GEO. M. GARLAND
Iron Cutters and Posts
 Patented December 27th, 1898. send for Catalogue.
 Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

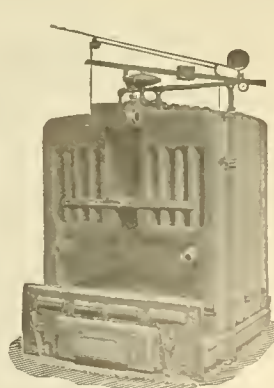
EUREKA GREENHOUSES
 Get the best
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

GREENHOUSE LUMBER
Now is the Time
 TO SEND FOR OUR ESTIMATES and decide on your contemplated building work. An early order is early delivered, and early deliveries afford you much more time for painting and careful erecting. If you wait until later, there will be "others" who have waited too long, and everyone then wants their work "at once."
 Our New Construction Sheet Mailed on Application. Plans and Estimates Freely Furnished on Request.
RED CEDAR POSTS IRON FITTINGS HOT BED SASH
LOCKLAND LUMBER CO.
LOCKLAND, O.
 Mention the Florists' Exchange when writing.



Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of construction, either of Washington Red Cedar or Louisiana Cypress quality
Invariably the Best that Can be Produced.
 Catalogue, plans and estimates free on request.
A. DIETSCH & CO., Patentee, 615-21 Sheffield Ave., CHICAGO.
 Mention the Florists' Exchange when writing.

GULF CYPRESS Greenhouse Material
 Cut and Spliced Ready for Erection
Hot Bed Sash
 Pipe, Fittings, Ventilating Apparatus
GREENHOUSE GLASS
 We furnish everything for Building
 Heating Installed
 Send for Prices and Catalogue
S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N.Y.
 Mention the Florists' Exchange when writing.



KING CONSTRUCTION COMPANY

North Tonawanda, N. Y.,
and Toronto, Canada.

New Greenhouse Catalogue ready for
distribution. Send for it.

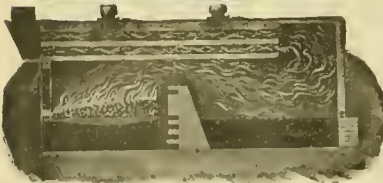
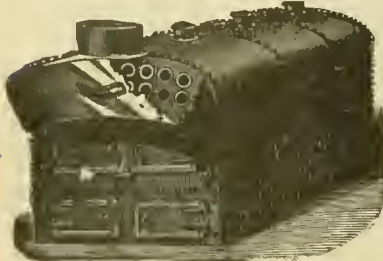
Mention the Florists' Exchange when writing.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox
sheets and heads of steel, water space all around
(front, sides and back). Write for information.

ASPARAGUS DECUMBENS, 3 in. pots, 75c
per doz., \$5.00 per 100.
ASP. ARAGUS SPRENGERI, 3 in. pots, \$2.00
per 100; \$15.00 per 1000; 500 at 1000 rate.
ASPARAGUS SPRENGERI, strong, 3 in., 75c.
per doz.; \$5.00 per 100.
CARNATIONS. Rooted cuttings. Write for
prices and varieties.
CLEMATIS PANICULATA, 4 in., \$1.50 per
doz.; \$10.00 per 100.
EUCYMTUS, golden leaved, 2-year-old plants,
\$1.50 per doz.; \$10.00 per 100.

11th & Jefferson Sts.,
C. EISEL, PHILADELPHIA, PA
Mention the Florists' Exchange when writing.

Century Sprayer.

Best barrel sprayer made. Capacity and adapt-
ability to suit all requirements.
These are features: its valves are
bronze balls. Cylinder and plunger
are brass. Indestructible
packing crimps. Large air
chamber. Agitator that agi-
tates. See how



PRICE PLEASURES
We make twenty styles
sprayers. Every need
specially met with Hand,
Bucket, Knapsack, Pow-
er Sprayers. Spraying
cutting trees. Booklet on
insects and plants and
fruit diseases 10c.

THE DEMING CO., Salem, D.
Lenox & Hubbard, Des Moines, Ia
Chicago, Ill.

**The Standard
Ventilating Machinery**

The original machine with self-
oiling cups; the most powerful,
least complicated, very com-
pact, with ease of operation.
The New Duplex Gutter,
over six miles in use and highly
recommended; the only drip
proof gutter in the market.
**The Standard Return
Steam Trap** has no equal for
simplicity or its workings.
Catalogue free.



E. HIPPARD, Youngstown, O.

H. BAYERSDORFER & CO.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Immortelles, Ruscus Wreaths and Baskets for Plants

IN MANY STYLES

50 to 56 N. Fourth St., - - Philadelphia, Pa.

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Mention the Florists' Exchange when writing.

A. HERRMANN

Manufacturer of Floral Metal Designs

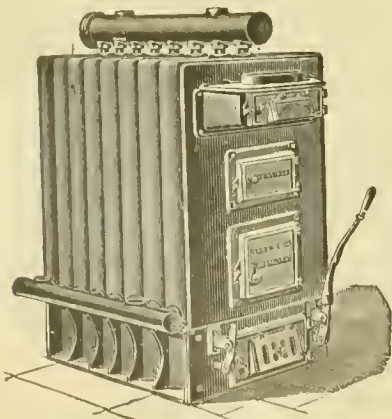
IMPORTER AND DEALER IN FLORISTS' SUPPLIES

FACTORY: 709 FIRST AVENUE, BETWEEN 40TH AND 41ST STREETS, NEW YORK

OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.

WRITE FOR NEW CATALOGUE

Mention the Florists' Exchange when writing.



Scollay Invincible Boilers

FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequalled
for their efficiency, simplicity of con-
struction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not
steel) 2 in., 10 3/4 c. per foot.

Horticultural building of every
description.

JOHN A. SCOLLAY

72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.

Established 42 Years

Mention the Florists' Exchange when writing.



Hitchings' NEW MOGUL BOILERS

For Hot Water or Steam
HOT WATER Radiation from
4,200 Square Feet end Up.
STEAM Radiation from 2,600
Square Feet end Up.

Send four cents postage each
for fully illustrated catalog
on Greenhouse Construction
and Heating and Ventilating.

HITCHINGS & CO.
Horticultural Architects
and Builders
233 Mercer St., NEW YORK.
ESTABLISHED 1844.

Mention the Florists' Exchange when writing.

THE PIERSON-SEFTON CO.

Horticultural Architects and
Builders

West Side Ave., So.
JERSEY CITY, N. J.

**Pierson
Boilers**

For Steam and Water
are unsurpassed for efficiency
and economy

Messrs. Righter & Barton, Madison, N. J., write: "August 5, 1904. The two
"Pierson" sectional hot water boilers installed for our new houses one year ago gave excep-
tional satisfaction during the past winter, the most severe for many years, easily fulfilling
what was expected of them, at the same time proving to be economical.
We found them very easy to manage, that they responded promptly and heated the
water in short time, thus giving splendid control of temperature in houses when sudden
drop took place outside."

This is only One of Many
WE ALSO MANUFACTURE AND SUPPLY
FITTINGS, VALVES, PIPE AND EVERYTHING FOR HEATING
Write for Catalogue and Prices

Mention the Florists' Exchange when writing.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING
APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR
CIRCULARS

DILLER, CASKEY & CO.

Successors to
JENNINGS BR

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

There is one place where you can
be sure of getting
THE BEST

GREENHOUSE MATERIAL

That is from the
FOLEY MANUFACTURING Co.

CHICAGO
471 W. 22ND ST.

We also make Hot-bed sash.
Illustrated Catalogue sent free!

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Our Gallery of Fine Specimens

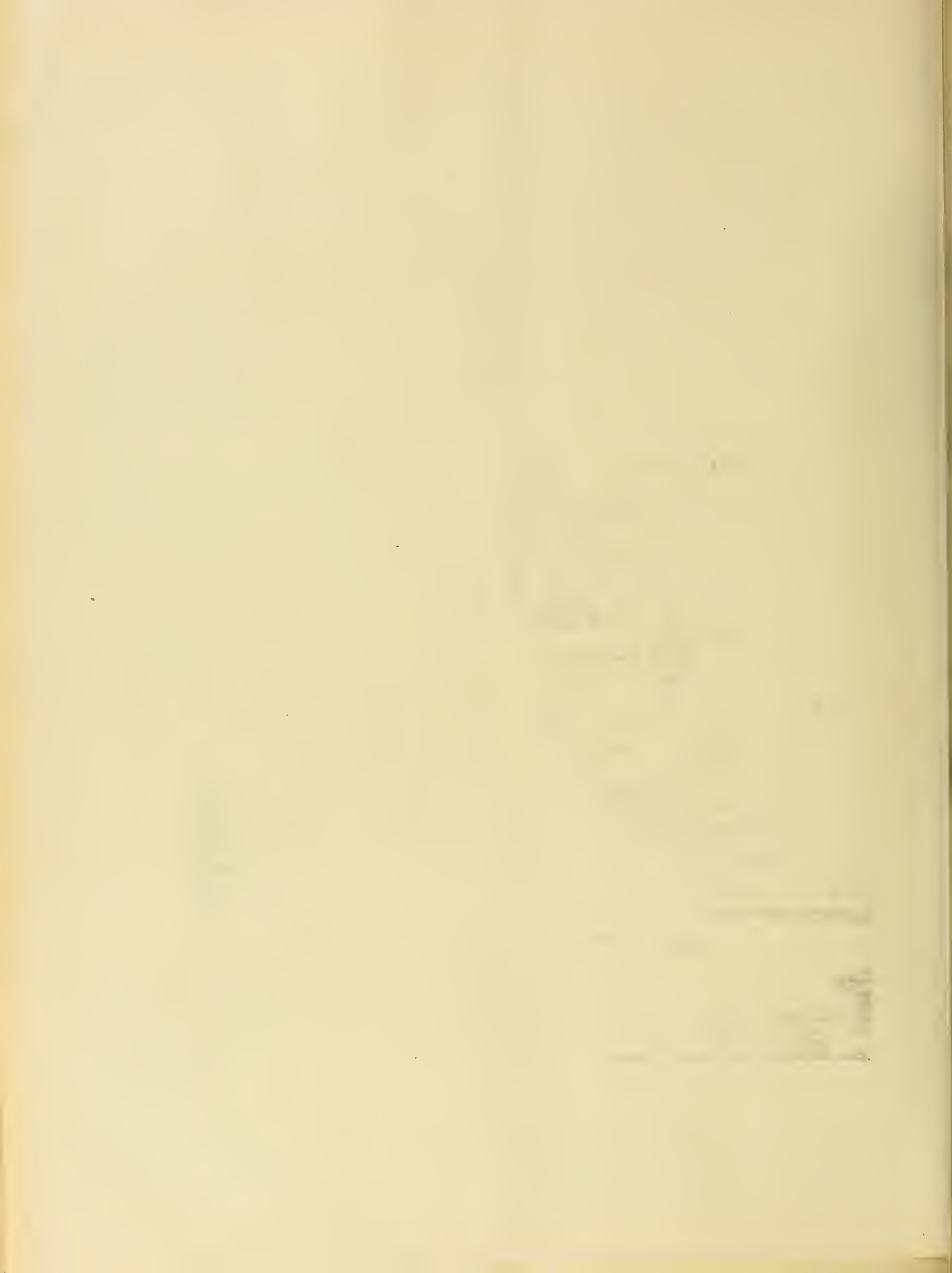


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Plate 94

PSEUDO-LARIX KOEMPFERI—Japanese Golden Larch

Notice its loose style of growth as compared with that of the European Larch. The foliage appears more flatly arranged than that of other Larches; and in the Autumn its color becomes of a golden yellow—a beautiful feature, and one from which it takes its name. Altogether, it is a distinct and valuable tree.





**EMBRACE THIS OPPORTUNITY
SWEET PEAS**

Mont Blanc	per lb.	45 cts.
Blanche Ferry, extra early	"	30 "
Countess of Radnor	"	30 "
Salopian	"	30 "

ASTERS, all standard varieties, per trade pkt., 25 cts.
 SMILAX per oz., 35 cts.
 SALVIA Splendens Bonfire, per trade pkt., 25 cts.
 MUSA ENSETE (just received), per 100 seeds, 90 cts.
 DRACÆNA INDIVISA per oz., 30 cts.
 LILY OF THE VALLEY PIPS, per case of 2500, \$24.00

LILY OF THE VALLEY CLUMPS	per 100,	8.00
STRAW MATS, 6x6	\$1.60 each; per doz.,	18.00
BURLAP MATS, 76x76	\$1.35 each; per doz.,	15.00
SHEEP MANURE	100 lbs., \$1.25; per ton,	20.00
PERUVIAN GUANO, freshly imported	100 lbs.,	2.25
BAMBOO CANES, 4 to 8 feet		6.00

WM. ELLIOTT & SONS, NEW YORK
 Mention the Florists' Exchange when writing.

**1904 CROP
ASPARAGUS SEED**

Plumosos Nanus	Per 100	Per 1000
" Robustus	55c.	\$4.00
" Sprenger	85c.	7.50
" Sprenger	15c.	1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.
MOORE & SIMON, Seed Growers
 207 Market Street, PHILADELPHIA, PA.
 Mention the Florists' Exchange when writing.

F. W. O. SCHMITZ

PRINCE BAY, N. Y.
 Wholesale Importer and Exporter of
Bulbs, Plants, Roots, Etc.
 All Inquiries Cheerfully Answered
 Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus SEED

250,000 present season growth \$2.25 per 1000. In quantity to suit. February delivery. Early orders requested.

REES & COMPERE, R.F.D. No. 1, Long Beach, Cal.

**Summer Flowering
BULBS**

Ismene Grandiflora	100	1000
Madeira Vines	\$6.00	\$50.00
Spotted Callas	1.00	8.00
Tritoma Pfitzeri	3.00	25.00
Tritoma Pfitzeri	7.00	50.00
Gladioli, mixed, 1 1/4 in. diam.	.60	5.00

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC.
 Eight per cent. discount for cash. Special price on large quantities.
JOHN LEWIS CHILDS, Floral Park, N. Y.

SPRING BULBS NOW READY

Secure your supply before lots are broken
Sound Selected Stock, Up to Size
 Special Offer l. o. b. N. Y.

BECONIA—Tuberous, Single

1 1/4 in., separate colors	Doz.	100
1 1/4 in., " Double	\$0.40	\$3.00
	.65	5.00

CALADIUM (Elephant's Ears)

5-7	Doz.	100	1000
7-9	\$0.35	\$2.00	\$15.00
9-11	.50	3.00	25.00
	.75	5.50	50.00
Fancy Leaved named sorts	1.25	8.00	

GLADIOLUS Bargain Mixture

Mammoth Bulbs, 1 1/4 in. and up	.85	7.00
Extra Fine Mixture	1.25	10.00
Florists' XXX, White and Light	1.40	12.00
Augusta, 1st size	3.50	30.00
May	1.40	12.00
Shakespeare	4.25	35.00

TUBEROSES Dwarf Double Pearl
 True Hallock Strain. Clean, white bulbs, all sound.

1st Size, 4-6 inches	100	1000	5000
Medium, 3-4 "	\$0.85	\$7.00	\$32.50
	.50	3.75	17.50

ISMENE GRANDIFLORA, fine cut flower \$1.00 \$6.00 \$55.00
 TRITOMA PFITZERI, Red Hot Poker 1.00 5.50 50.00

Send for Vaughan's Book for Florists, for complete list Bulb Supplies and
BEST FLOWER SEED IN AMERICA
 (See offer, page 227, last issue this paper.)

VAUGHAN'S SEED STORE
 84 and 86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK
 Mention the Florists' Exchange when writing.

**GOLD MEDAL STRAIN
BEGONIAS TUBEROUS ROOTED**

Single White	Per doz.	100	Double White	Per doz.	100
" Yellow	\$0.35	\$2.25	" Yellow	\$0.65	\$5.00
" Nankeen	.35	2.25	" Orange	.65	5.00
" Pink	.35	2.25	" Rose	.65	5.00
" Rose	.35	2.25	" Dark Rose	.65	5.00
" Red	.35	2.25	" Dark Red	.65	5.00
" Dark Red	.35	2.25	" Red	.65	5.00
" Salmon	.35	2.25	" Salmon	.65	5.00
" Orange	.35	2.25	" Mixed	.60	4.00
" Mixed	.30	2.00			

STUMPP & WALTER CO., 50 Barclay St., New York
 Branch Store 404 East 34th St., N. Y.
 Mention the Florists' Exchange when writing.

NEW CROP FLOWER SEEDS

Asparagus Plumosus Nanus, 100 seeds, 60 cts.; 1000 seeds, \$5.00.
 Begonia, Vulcan and Vernon, trade pkt., 25 cts.
 Cyclamen Giganteum, 100 seeds, 60 cts.; 1000 seeds, \$5.00.
 Petunia Fimbriata Grandiflora, trade pkt., 50 cts.; double " " \$1.00
 Salvia, Bonfire, trade pkt., 25 cts.; oz., \$2.25.
 " Splendens, trade pkt., 20 cts.; oz., 60 cts.
 Stocks, Dwarf Ten Weeks, trade pkt., 25 cts.; oz., \$2.75.
 Verbena, Mammoth, trade pkt., 20 cts.; oz., \$1.00.
FRESH TOBACCO STEMS,
 bale of 300 lbs., \$1.50.

W. C. BECKERT, Allegheny, Pa.
 Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus Seed

True Stock, Lath House Grown, \$2.00 per 1,000. Ready March and April.
 SMILAX SEED.—\$1.50 per lb., ready in June. Special prices on large orders.
 SMILAX PLANTS.—Out-of-Door Seed Beds. Strong, 18 months old. \$20.00 per 1,000.

Will exchange for Maiden Hair Fern and Rooted Carnations Cuttings of Enchantress, Harlowarden, Lawson, Queen Louise, Prosperity, Geo. M. Bradt, Flancee, Cardinal.

E. R. MESERVE
 Long Beach, California
 Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus Seed

Greenhouse grown, \$4.00 per 1000.
SAMUEL S. PENNOCK, The Wholesale Florist of Philadelphia
 Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.
 Catalogues free on application.
WEEBER & DON, Seed Merchants and Growers,
 114 Chambers Street, NEW YORK
 Mention the Florists' Exchange when writing.

GROFF'S HYBRID GLADIOL

First-Class Corms.....\$2.00 per 10
 Second Size..... 1.50 "
 Small (blooming) one inch and under..... .75 "
 Cash with order, please.
W. F. MASSEY, Raleigh, N. C.
 Mention the Florists' Exchange when writing.

**THE HARDY ANNUAL OF THE CENTURY
Nicotiana Sandera**

Seeds in original packets at 25c. each.
 Wholesale Agents for the United States:
 H. A. DREER, Philadelphia, Pa.;
 J. M. THORBURN & Co., Corlandt St., New York
 VAUGHAN'S SEED STORE, Chicago and New York
 Mention the Florists' Exchange when writing.

DREER'S Reliable Flower Seeds

SWEET PEAS FOR FLORISTS

We offer below a short list of the best sorts to grow for cutting.

(For full list see Wholesale Catalogue.)

Blanche Ferry, pink and white	1/4 lb. lb.	\$0 10 \$0 20
" " extra early, ten days earlier than above	10	25
Countess Cadogan, clear blue	10	25
Countess of Radnor, lavender	10	20
Dorothy Eckford, the latest, largest and finest white	20	50
Earliest of All, very early, pink and white	10	30
Emily Eckford, mauve or belotrops	10	20
Emily Henderson, an early, free and continuous flowering white	10	20
Hon. F. Bouverie, fine clear pink	10	20
Hon. Mrs. E. Kenyon, the best yellow	10	25
Janet Scott, a beautiful pink	25	75
Kath. Tracy, a good pink	10	25
King Edward VII, crimson scarlet	25	75
Lady Grisel Hamilton, clear lavender	10	30
Lovely, shell pink	10	25
Miss Wilmott, rich orange pink	10	30
Mont Blanc, very early white	10	25
Navy Blue, deep violet blue	10	20
Prima Donna, fine deep pink	10	25
Prince of Wales, rich rose	10	25
Salopian, rich scarlet	10	25
Peerless Mixture, finest made	10	30



See our WHOLESALE PRICE LIST
 For Complete List of
FLORISTS' FLOWER SEEDS
 Including Asters, Petunias, Pansies, Verbenas, Salvias, etc.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.
 Mention the Florists' Exchange when writing.

New Crop ASTER SEED



From the best American and European Growers. Lg. Trade Pkt. Per Oz.

Giant Comet White Rose, Bright Red, Light Blue, Dark Blue, The Bride... } \$.20 \$1.00
Branching Mixed..... } .20 .90
All Colors Mixed..... } .20 .76

Queen of the Market (German Crown)
Three weeks earlier than any other variety of dwarf branching habit; Scarlet, White, Pink, Crimson, Light Blue, Dark Blue, Purple, } .16 .60
fine for cutting. Mixed..... } .15 .60

Semple's Branching Immense flowers, resembling a Chrysanthemum, and very desirable for the blooming.
Pure White, Scarlet, Pink, Lavender, Purple, } .20 .75
All Colors Mixed..... } .16 .60

Daybreak, beautiful shell-pink..... .30 2.00

Purity, double white..... .30 2.50

Our new wholesale list for florists mailed on request.

JOHNSON & STOKES
217-219 Market Street, Philadelphia, Pa.

CANNAS Dormant roots, 2, 3 and more eyes, Alba, Austria, Allemanis, Blackbank, Buttercup, F. Vaughan, Mme. Crozy, Black Prince, Bonvier, F. Marquand, Italia, Egozdale, Robusta, Metallica, red leaf, \$2.00 per 100; \$15.00 per 1000; mixed, \$10.00 per 1000.
Shellroad Greenhouses, Grange P. O., Balto., Md.
Mention the Florists' Exchange when writing.

GLADIOLI BULBS

Shakespeare, sizes 1 and 2; E. Scribe, 1 and 2; No. 1900, 2, 3 and 4; Augusta, 2, 3 and 4, also small Augusta about 1/4 to 1/2 in., at \$3.50; and 5-16 to 1/4 at \$5.00 per 1000. Cash with order.
John Fay Kennell, R.F.D., Chili Center, N.Y.

Asparagus Plumosus Nanus

Greenhouse, fresh picked, plump, of best germination, per 100, 50c.; 1000, \$4.00
Asparagus Sprenger!..... 15c.; " 0.75

ASTER SEED—The Best Trade pkt. Oz.

Queen of Market, white, pink, purple, light blue, dark blue, scarlet, each separate or mixed..... \$0.10 \$0.40

Semple's Branching, rose, lavender, purple, white, crimson, each separate or mixed..... .10 .50

Perfection Feony-flowered, mixed..... .15 1.00

Extra Early White Hohenzollern, 1/4 oz., 76c..... .26

SWEET PEAS (All Sorts) Send for List. Choice mixed. Per lb., 20c.; 1/4 lb., 10c.

JAPAN BAMBOO STAKES
JUST RECEIVED THE ONLY DURABLE
3 to 4 feet..... per 100, 60c.; 1000, \$3.25; 2000, \$6.40
6 to 6 feet..... " 75c.; " 6.00; " 11.00

BULBS FOR FORCING Per doz. Per 100

Amaryllis Belladonna, rose, large bulbs..... \$0.76 \$5.00

Begonias, tuberos root, in separate colors, white, rose, scarlet, crimson, yellow, orange, apricot or mixed, large bulbs, single giant..... .40 2.60

Begonia Double Giant Flowering, in separate colors, white, scarlet, crimson, rose, yellow, orange or mixed..... .60 4.60

Catadium Esculentum (Elephant's Ear), with sound center shoots, 6 to 8 inches..... .30 2.00
8 to 10 inches, 60c. per doz.; \$1.00 per 100. 10 to 12 inches..... 1.00 6.60

Fancy-Leaved Caladiums, in choice named sorts..... 1.25 8.00

The RAREST SORTS of these produce mostly small bulbs. 12 100 1000

Gladioli, all white and light..... \$0.40 \$2.00 \$15.00

Choicest mixed, 60 per cent. white and light..... .20 1.50 10.00

Augusta, pure white..... .50 3.50 30.00

May, white and rose..... .26 1.76 16.00

All clean, first size stock.

Glaxias, white, scarlet, blue, purple, red with white border, violet with white border, figured..... .60 4.00

Mixed Glaxias..... .50 3.00

Tuberose, Double Excelsior Pearl, extra fine stock, 4 to 6 1/2 in..... 1.00 7.50

If our new Spring List has not been mailed to you, send for it at once.

H. H. BERGER & CO., 47 Barclay Street, New York.

DREER'S ROYAL EXHIBITION PANSIES

We offer a fine lot of September-sown seedlings, which were transplanted in cold frame during October, and while not extra large they are sturdy, stocky plants, which will respond quickly in Spring and give better returns than larger but softer greenhouse-grown plants.
Price, 75 cents per 100; \$5.00 per 1000,
SEED of above, 60 cts. per trade pkt.; \$1.25 per 1/4 oz.; \$3.00 per oz.

Myosotis Palustris Semperflorens (THE EVER-BLOOMING FORGET-ME-NOT)

A good lot of cold frame-grown plants suitable for potting into four-inch pots, which, if brought into a cool greenhouse, will furnish readily salable plants for retailing, or will produce quickly a profitable crop of flowers for cutting.
50 cents per dozen; \$3.00 per 100.
SEED of above, 30 cts. per trade pkt.; \$1.50 per oz.

Primula Cortusoides Sieboldi.

These beautiful rich-colored Primroses are almost unknown to the American trade. They are used extensively as pot plants in many European cities where they meet with ready sale, and we believe that they will meet with even greater favor here when once they become known.
We offer good strong corne, which, if potted up and placed in a carnation house temperature, will be in full bloom in about five weeks' time. All are very large-flowered and of bright, pleasing colors. We recommend them for trial, feeling certain that you will be pleased with the result.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

ROSES

100 varieties of Hardy Herbaceous Plants in 2 in. pots. Will be ready for delivery May 1st.
60,000 field-grown Phlox, in 30 varieties, \$8.00 per 100.

LARGE SHRUBS

HYDRANGEA P. G., WEIGELA, ALTHAEA, SPIRÆA
Prices and varieties given in wholesale list.

AMPELOPSIS VEITCHII— Per 100
Field-grown, 2 years, No. 1..... \$8.00
X heavy..... 7.50

400,000 Roses in 2 in. pots, for lining out, \$25.00 to \$35.00 per 1000. Send for wholesale list for varieties. Small shrubs for transplanting. See wholesale list.

HYDRANGEA P. G.— Per 100
3 to 4 ft., XX heavy..... \$11.00
3 to 4 ft., very fine..... 0.00
2 to 3 ft., good..... 6.00
1 1/2 to 2 ft..... 6.00
Last Summer's propagation..... 2.00

BOXWOOD.
3 to 4 inches..... \$15.00 per 1000
4 to 6 inches..... 30.00 "

6 to 8 inches..... \$50.00 per 1000
From 8 inches to 4 feet, quoted in wholesale list

EYERGREENS, in quantities. HEMLOCKS, SPRUCE, PINES, RETINISPORAS, and many other varieties.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

Mention the Florists' Exchange when writing.

SPECIAL SALE of Asparagus Plumosus Seed

We have just received from our grower another lot of New Crop Greenhouse Growth Seed—will germinate 99%. This is always a good paying crop for the florist, and to move this quick we offer at the following low prices:

Per 100 Seeds..... \$.60
" 250 "..... 1.25
" 1000 "..... 4.00
" 5000 "..... 19.00

NOTE.—For complete list of seasonable Seeds, Bulbs, Supplies, etc., see our Wholesale List. Write us for special quotations on your wants in Seeds and Bulbs. We are Headquarters.

HENRY F. MICHELL CO.
Seed Growers and Importers
1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FOR PROFIT THE

Aster Kate Lock

Has been grown 48 ins. high. With stems 36 to 43 ins. long. Cut blooms sold as high as 60c. per doz. retail in Canada, while other Asters were only bringing 16c. to 25c. per dozen. Colors, White, Daybreak and mixed. \$2.00 per 1000 seeds. Not less than 1000 seeds sold. No Agents. Please don't send checks.

ORIGINATOR
J. H. LOCK, 41 Manchester Avenue J. H. LOCK, TORONTO, ONTARIO
Mention the Florists' Exchange when writing.

BURPEE'S SEEDS PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.
Mention the Florists' Exchange when writing.

Half Million Augusta Gladiolus

IN DIFFERENT SIZES

1st size, 2 inch and up.
2d size, 1 1/2 inch, 1 1/4 inch,
3d size, 1 1/4 inch, 1 1/2 inch.

WHITE & LIGHT

1st size, 1 1/2 inch, 1 1/4 inch
2d size, 1 1/4 inch, 1 1/2 inch.

Ask for prices on the different sizes; send stamps for sample.
Long Island is known all over the world for the production of the best Gladioli Corne. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.
Address all orders to

ROWEHL & GRANZ, Hicksville, L. I., N. Y.
Mention the Florists' Exchange when writing.



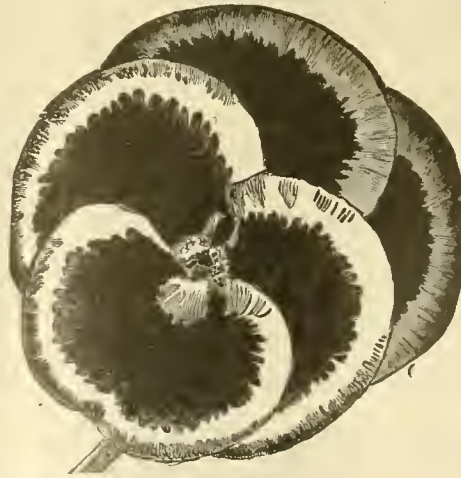
If other seeds have failed you, try
GREGORY'S
We mail many small fruits, 12 to 15c each. Catalogue free.
J. J. H. GREGORY & SON, Marblehead, Mass.

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Thorburn's Seeds LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION
Per case of 3000 for - - - \$24.00
Two or more cases at \$7.50 per 1000

J. M. THORBURN & CO.
36 Cortlandt St. New York
Mention the Florists' Exchange when writing.



CRIMSON RAMBLER **OWN ROOTS.** 3500 No. 1 1/4 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$15.00 per 100.

HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.

HIRAM T. JONES, Union County Nurseries, ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.

Mention the Florists' Exchange when writing.

We Wish to Announce to the Trade That We Are the Successors of

W. P. PEACOCK, Dahlia Specialist

Send for our beautifully illustrated descriptive catalogue for 1905, now ready

L. K. PEACOCK, (Incorporated), Ateo, New Jersey

Mention the Florists' Exchange when writing.

DAHLIAS P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiræa Japonica, Liliun Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mrs. Winters, the World's best white, strong tubers, \$10.00 per 100. Ingeborg Ege-land, best scarlet cactus, \$3.00 per doz., \$20.00 per 100. Many other novelties and standard varieties. Wilmore's Dahlias have long been celebrated for prize winning. Also Double Field-grown HOLLY-HOCKS, true to color, \$3.00 per 100. Send for catalogue.



W. W. WILMORE
 Dahlia Specialist, Box 382, DENVER, COL.

W. & T. SMITH COMPANY
 Geneva, N. Y.

Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vine Fruit Trees and Small Fruits.

WHOLESALE PRICE LIST SENT ON REQUEST

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

BLACK RIVER, WIS.—Benson & Olson will add the handling of clover and grass seeds to their business.

STOCKS OF CLOVER SEED in the country tributary to Indianapolis, Ind., have been well cleaned up.

The San Francisco Chronicle, in its edition of Sunday, February 5 last, gave an interesting illustrated account of the work of Mrs. Theodosia B. Shepherd, of Ventura-by-the-Sea, Cal., particularly as regards the obtaining of new varieties of begonias and cosmos.

WORCESTER, MASS.—The seed store of F. A. Lincoln & Co. has been thoroughly renovated inside and out. Although this firm does not cater especially to the mail business, they issue a very neat catalogue of seeds and agricultural implements.

ST. PAUL, MINN.—Jesse E. Northrup has gone to the hospital to undergo an operation for appendicitis. He has suffered from this disease more or less for two or three years. His many friends in the trade will wish him a speedy recovery.

E. M. Parmelee of the John H. Allan Seed Co., Sheboygan, Wis., was a recent caller.

Joseph Rölker, of August Rölker & Sons, New York, was also a recent visitor.

Catalogue orders are now coming in more freely. VERITAS.

THE WORCESTER COUNTY (MASS.) MARKET GARDENERS' ASSOCIATION recently spent a day at Boston and Arlington. As guests at the meeting of the Massachusetts Horticultural Society they listened to a lecture and discussion on "Flowers and their Seasons," by J. Woodward Manning. At the close of his remarks the subject was opened to discussion. A. A. Hixon, of Worcester, said, in his opinion, the soil conditions ruled what was best for a person to plant to get satisfactory results, and stated that a sure and cheap cure for plant pests is soap and water, and plenty of it. E. O. Orpet, South Lancaster, advocated annuals in preference to perennials. Single asters were favored by Mr. Orpet. Mr. Hatfield told of the need of shade and shelter for the successful cultivation of rhododendrons.

After the meeting the party visited the plant of W. W. Rawson, at Arlington, where there are 30 greenhouses devoted to vegetable forcing. Stable manures are considered by Mr. Rawson preferable to commercial fertilizers, and he believes that this manure should be worked over several times before it is used. To facilitate this working over, he employs the noses of pigs to a large extent. A meeting of the Boston Market Gardeners' Association was held on the premises, at which Mr. Rawson read a paper on "Some Ounts in Market Gardening." He said a fair return should be expected from lettuce if it was sold at 50 cents a dozen, and root crops ought at least bring 50 cents a bushel to insure a profit. Cucumbers are a hard crop to estimate the cost of, as is celery. After the meeting, Mr. Rawson invited all to the lower floor, where a caterer served a substantial lunch.

AN IMPORTANT DECISION ON SEED CONTRACTS.—A decision by Judge Sutton relative to seed contracts, which is of immense interest to the farmers of this State, says a Nebraska newspaper has just been affirmed by the Supreme Court. The case arises out of a suit brought by J. C. Robinson & Co., seed dealers, of

Waterloo, Neb., against a farmer named Strickland, to enforce a contract. By the terms of the contract Strickland was furnished with a quantity of seed and agreed that the crop of corn which should be raised, should be sold to the seed company at the rate of \$1.25 per 100 pounds. By the time the crop matured the price of seed corn had jumped from \$1.25 to \$7.00. Strickland sold the corn to another dealer for \$7.00, and the seed company carried the matter into court. Judge Sutton held that the seed contract was void because the crop did not exist at the time the contract was made. The Supreme Court also took this view. Thousands of farmers in Nebraska who hold seed contracts are affected by this decision.

OVERPRODUCTION.—That there is a large surplus of the leading kinds of vegetable seeds in the country is daily becoming apparent. The short supply of the last two years along many lines was an incentive for large contracts on the part of the dealers, and a liberal acreage on the part of the grower. Sweet corn will be a drug, although the trade will not suffer; having made the contracts and their prices as well, the profit will be about as usual. But the jobbers and the farmers that grow on their own account will be the ones who will suffer, and, at the same time, learn a valuable lesson. Seeds that will retain their vitality for two or more years will remain firm in price and the jobber and grower will grow and contract according to necessity. Some varieties of peas and beans there is a shortage; but sufficient of other to make up, which will to a great extent equalize supply and demand. There is every prospect of a surplus of seeds in the growers' and jobber hands that do not long retain vitality. The legitimate trade will not mourn this loss, as it will prove a check on the adventurers that crowd the market, which is always an injury to conservative business.

THE SEED BUSINESS IN AMERICA.—There has been a wonderfully great development in the seed business since the close of the war, says President Charles N. Page, of the American Seed Trade Association, in the Des Moines (Ia.) News, and the farmers have learned that it does not pay to grow their own seeds, but that had much better be left to a specialist who is well posted as to the purity of various stocks, who knows what seed should be and has machinery for properly handling the crop. These specialists grow seeds for all the leading seed dealers. In one locality in Nebraska it is estimated that over 5,000 acres are devoted to growing melon and squash and cucumber seed, as the soil and climate there is especially well adapted to these crops. One seed dealer has contracted 200 acres of one variety of watermelon seed in Kansas and Oklahoma. In 1878 it was estimated that there were 7,000 acres in the United States devoted to growing garden seeds, while the census in 1890 (12 years later) showed that there were 59 seed farms containing 169,850 acres. About half of these seed farms were started during the previous ten years. The main business of the country is now in the hands of about 150 firms, who devote their attention to improving the various kinds of vegetable, flower and farm seeds. As the country has been developed, sections have been found to be especially adapted to growing various crops. For instance, beans are grown almost exclusively in New York, Wisconsin and Michigan. Cabbage is grown mainly on Long Island. Sweet corn, cucumbers, melon and squash are grown in Iowa, Nebraska and Kansas. Onions, lettuce, carrot and celery in California, tomato in Iowa, New Jersey and Michigan. A large acreage is devoted to growing flower seeds in California, although still a considerable portion of the stock is imported from Holland, England and France.

THE CONDITION OF TRADE.—When asked the condition of trade whether wholesale or retail, in vegetable or flower seeds, bulbs or plants, mail or counter trade, it matters not what the locality may be, north, south, east or west, there comes but one answer, though clothed in the language of each: "Nothing doing; we never saw anything like it. The long continued cold of extreme tenacity all over the country has simply paralyzed business." This is, to a great extent, true, very true; but its effect is not as seri-

BERMUDA HARRISII BULBS

THE

"SEMPER IDEM"

BRAND

I AM NOW BOOKING ORDERS FOR JULY AND AUGUST DELIVERY PRICES ON APPLICATION

CHAS. A. V. FRITH
 HAMILTON, BERMUDA

Mention the Florists' Exchange when writing.

ous as thought and stated; serious enough, however, for grave apprehensions along many lines, while in others no great loss will be felt. The market gardeners' trade will not suffer a particle; orders may be late in coming in, but they will come. In the environs of New York active preparations for planting have already commenced, and on as elaborate a scale as in former years. The same amount of potatoes, peas, beans, corn and cabbage will be planted as usual, and the harvest will be as early as though the ice king had not held carnival.

The mail trade is now suffering, and will continue to suffer. February is usually a busy month, and the index finger that indicates success or failure of the Spring trade. If business is good this month, the season will be a profitable one; otherwise, the reverse. The writer called on one of the largest firms in this line for information regarding the situation, and the report was, "the worst ever known." In vegetable seeds the falling off has not been as serious as might have been expected, and trade in these will probably be fairly good. But the plant trade is a dead failure, not one-fifth as large as the same month last year. This branch will suffer severely, as the losses are never made up; the customers will simply defer buying until another year, and the stocks that have been growing for this trade will go into the rubbish heap, and become plant food for another year's crop.

The box trade is the one that will reap the harvest, as is usually the case in backward seasons. No one will buy seeds for the home garden when the soil is covered with ice, and if planting is long deferred they will rush to the country store when the supply is needed.

BOLGIANO & SON, BALTIMORE.—I. Bolgiano & Son, wholesale and retail seed growers and merchants, are now permanently established at the northeast corner of Light and Pratt streets, the prominent corner which his old established firm has selected for its modern new store and warehouse, says the Sun, is one of the best locations in the Greater Baltimore, with Light street, 120 feet wide, and Pratt street, 90 feet wide; the Light street wharves at the door and the great modern piers which the city is going to erect within a square. A gentleman, in speaking of the firm, said:

"Few Baltimoreans realize what a great seed center Baltimore has become. J. Bolgiano & Son annually market the products of more than 10,000 acres of ground, situated in Canada, New York, Michigan, Kentucky, California, Colorado, the New England States, Ohio, Maine and Maryland, besides Holland, France, Germany, England and the Canary Islands. The firm's trade of more than 50,000 customers extends to every State and Territory in the United States, Cuba, and a number of foreign countries, even China. It employs in the store and on the road between 40 and 50 clerks and salesmen, besides hundreds of farmers who grow seeds.

"The firm was established in 1818 by the great-grandfather of the present members. John Bolgiano, Sr., was the head of the firm from about 1825 until he retired in 1883. He was also treasurer of the Baltimore City Passenger Railway Company for many years, and died in 1892.

"Joseph A. Bolgiano was head of the firm from 1883 until he retired in 1899. He is now a director in the Fidelity and Deposit Company of Maryland, National Toward Bank, Colonial Trust Company, Security Storage and Trust Company, and has many other large interests identified with Baltimore. He is also a director of the Free Summer Excursion Society. Roland Bolgiano and Charles J. Bolgiano constitute the present firm."

BOSTON.—Nicotiana Sanderae has proved a quick selling novelty at W. W. Rawson's. A large number of packages of seeds have been disposed of, although the season is only just started. It is said that the seeds do not germinate very regularly, although they will all grow if given proper conditions and sufficient time.

The members of the bowling league, employees of the various seed stores, held a banquet in honor of the champions at the American House, February 21, and a very pleasant evening was spent. W. E. Cahill acted as toastmaster, about thirty-five being present. Songs were rendered by Frank McDermott and Maurice Field the latter having composed a song especially for the occasion. The champion team, which was "The Farquhars," is composed of Harry Jenner, captain; Wm. Davy, An-

drew Castle, James Hardman, Frank McDermott, and George Porter. It was proposed to form a baseball club for the Summer season, and the following were appointed a committee of arrangements: Wm. Davy, of Farquhar's; J. Guerincau, of Schlegel & Fottler's; L. Gleason, of Breck's, and H. Rawson, of W. W. Rawson's. J. W. D.

FRENCH BULBS.—As already announced in these columns the Winter in Europe has been of a very singular character. France, particularly, has gone through an untoward period. The Mediterranean coast, always liked for its mild climate during the cold season, has experienced a spell of sharp frost. All along the flower-growing region (the Riviera) there have been heavy losses. Though the quantity of flowers necessary for the market supply of Northern Europe always can be considered rather abundant, this year, several times, there was a sensible shortage of stock. At more than one place the cold was so intense that glass covered with thick reed mats was insufficient to keep out the frost.

As regards Roman hyacinths, Paper White narcissus, etc., these bulbs are exclusively grown in the open without any protection. Just beginning the month of December the first attack of frost was felt, and all plants not covered suffered considerably. Fortunately, we had a dry temperature all the time; rainfall has been very rare the whole Winter. The gardens close to the foot of the hills, and most protected from cutting winds, suffered least. The high gardens, on the hill slopes, suffered nearly every night, as the thermometer went under the freezing point.

Bulbs frozen in the ground were found on only very few places. Hyacinths, touched in their foliage, have been seen in some gardens. J. B.

European Notes.

So mild is the weather prevailing in Northern Europe that even in England the market gardeners have already sown their carrot, onion, parsnip and Brussels sprouts, while those who make a specialty of pea growing have all the early varieties planted; in many cases, the young plants are showing above the ground. Many thousands of acres of potatoes are also planted, although it is only the middle of February, and, if present signs are to be trusted, we shall have a very early season.

The alternate frosts and sunshine have converted our fallow lands into an ideal seed bed, and already the growers have sown their stock seeds of spinach, radish and cress, under the most favorable conditions. Onions and leeks, for 1906 harvest, will be sown next week, a few light showers having rendered the land sufficiently moist to insure rapid germination.

The before-mentioned sunshine has cheered the hearts of the growers of florists' flower seeds, and enabled the plants to overcome the deadly effects of the November and December frosts.

The displays of *Primula sinensis* made by Cannell, Carter and Sutton in the Royal Horticultural Hall, on February 14, were the finest that have been seen for many years. And, as the light in the new hall was exceptionally good, they appeared to the best advantage. The mammoth flowered varieties in Cannell's strain were simply splendid, while the plants were grown in a style that was faultless. Exception may, perhaps, be taken to the so-called "improved" strain of *P. stellata*, the flowers in several cases being indistinguishable from those of *P. sinensis*; but the habit of the plant is not so graceful.

A batch of *P. sinensis* The Czar (Sutton), an intensely dark blue, attracted considerable attention; but the only novelty to gain an award was a new double white, from the same firm, named His Majesty. In reality, it should be described as semi-double, as the doubleness consists in a wavy, twisted petal in the center, a large finely formed single white flower of exceptionally good substance. A batch of Duchess hybrids, also from Sutton,

contained some beautiful breaks, which, if they prove constant, will be very acceptable. Large batches of both single and double forms of the Duchess were also exhibited, but the general effect was not pleasing to the eye, and it is hardly likely that they will ever become very popular. If present conditions continue, there should be a good crop of good seed harvested this season.

On one branch of the seed trade the fine weather appears to have no effect whatever, and that is the clover seed department. Trade is simply stagnant, and as some of the larger houses are carrying very heavy stocks, especially of red clover, they begin to feel rather blue. Matters are even worse in Germany than in Western Europe, and no one is able to suggest a remedy.

EUROPEAN SEEDS.

Pole Lima Beans.

Editor Florists' Exchange:

It is always very interesting to observe the effect of long continued environment on vegetable growth, sometimes resulting in an entire change of form, at other times of color or other habits, and not less interesting, and possibly more directly practical in a commercial view, to notice the first departures from established forms, consequent upon a few years of peculiar surroundings and conditions. These changes in character are very noticeable in the case of the growth of lima bean vines from seeds grown in California. The pole lima has been recognized everywhere as one which should possess a very free climbing habit, but unfortunately some strains of late years which have reached the hands of the seed trade have not been so marked in this character. I do not make the broad statement that California lima beans lose their running or climbing habit, provided they are not more than two or three seasons from eastern stocks, or provided they be grown from California stocks which have been regularly trained to poles; but I do say that a stock bred from parent stocks which have been grown for a number of successive seasons, lying flat on the earth, as they are grown in California, exhibits a decided tendency to lose the climbing habit; the stems do not possess that twining character, and force of retentive grasp, which a lima should exhibit. One or even two years of prostrate growth does not make any practical difference, but in strains grown under such a system covering many years, degenerate results are clearly observable, and any student of vegetable nature will realize at once that this is a natural consequence.

BURNET LANDRETH.

THE BROWN BAG FILLING COMPANY, Fitchburg, Mass., wires us, Thursday afternoon, March 2, that Judge Anderson has granted an injunction for infringement on the patented machinery, in Congressional seed distribution case.

CATALOGUES RECEIVED.

RIVOIRE PERE ET FILS, Lyon, France.—List of Novelties in Chrysanthemums, Carnations, Dahlias, Violets and other plants. Illustrated.

A. TILTON & SON, Cleveland, O.—Wholesale Catalogue of Seeds, Bulbs, Implements and Supplies for Market Gardeners and Florists. Illustrated.

C. S. HARRISON, York, Neb.—Price List of Fruit, Shade and Ornamental Trees, Shrubs, Evergreens, etc. Illustrated. Lilacs and Peonies, specialties.

ARCHIAS SEED STORE, Sedalia, Mo.—Illustrated Catalogue of Garden and Farm Seeds, Plants, Poultry and Beekeepers' Supplies. Also Price List of Nitro-Culture.

PETER HENDERSON & COMPANY, New York.—American Farmers' Manual, describing and illustrating Superior Seeds of Grasses, Clovers, Cereals, Forage Plants, Root Crops, etc.

W. ATLEE BURPEE & CO., Philadelphia, Pa.—Prize Supplement for 1905, giving a list of exhibitions at which the products of Burpee's seeds have been successful as prize winners.

F. GILMAN TAYLOR, Glendale, Cal.—Catalogue of California Flower and Vegetable Seeds, Bulbs, Plants, etc. Special attention is directed to the new ever-bearing Rhubarb Crimson Winter.

SANDER & SONS, St. Albans, England and Bruges, Belgium.—Special Offer of Hybrid Orchids in Cattleya seedlings, Cattleyas and Laelias, Laelias and Cattleyas, Laelio-Cattleya Hybrids and Brassavola Hybrids.

L. K. PEACOCK, INC., Atco, N. J.—Descriptive Catalogue of Dahlias, including Novelties and best Standard Sorts in all the types. Profusely illustrated. A valuable catalogue for the dahlia grower and lover. Also Wholesale Price List of Dahlias for 1905.

VAN HEININGEN BROTHERS AND COMPANY, Boskoop, Holland.—Catalogue of Hardy and Ornamental Nursery Stock; specialties, Standard and Low-budded Roses, Azaleas, Rhododendrons, etc. Branch office: J. C. Van Heiningen, care of Maltus & Ware, 136 Water street, New York.

NATHAN SMITH & SON, Adrian, Mich.—Illustrated Descriptive Catalogue of Latest Novelties in Chrysanthemums. A valuable, comprehensive and interesting list also of new and standard sorts of Carnations, Geraniums, Violets, Hardy Perennials, etc. This firm was awarded a silver medal at the World's Fair, St. Louis, for new Geranium Snow Queen, a seedling from Mme. Buchner X L'Aube.

LIVINGSTON SEED COMPANY, Columbus, O.—Illustrated Catalogue of Flower and Vegetable Seeds, Plants, Hardy Ornamental Shrubs, etc. This firm's specialty is tomatoes; among the newer varieties offered this year are Livingston's Globe, a colored illustration of which forms the front cover of the catalogue, and Livingston's new Dwarf Stone. A colored plate of novelties in sweet peas is included.

VICK'S GARDEN AND FLORAL GUIDE (James Vick's Sons), Rochester, N. Y.—Illustrated Catalogue of Vegetable and Flower Seeds, Plants, Supplies, etc. Asters are a leading specialty with this firm. Among the novelties listed are the Perfection Currant, which was awarded the Barry gold medal of the Western New York Horticultural Society; the new Ornamental Silver Ribbon grass and others. A field of Groff's New Hybrid Gladiolus, in color, has been selected as a cover design.

CLUCAS & BODDINGTON COMPANY, New York.—Wholesale Catalogue of Seeds, Bulbs, Plants, Sundries, etc. Very comprehensive List of Dahlias, including all the best novelties and standard sorts are presented; also of Gladiolus, Cannas, Chrysanthemums, etc. The nursery department includes choice collections of Conifers, Deciduous Flowering Shrubs, Small Fruits and Vegetable Plants. A large, interesting and varied assortment of Hardy Perennial Plants, such as Peonies, Phloxes, Hollyhocks, Irises, etc., is offered. The catalogue is well printed and profusely illustrated.

HARDY PLANTS WORTH HAVING.—This is the title of the 1905 catalogue of Thomas Meacham & Sons, Inc., Germantown, Philadelphia. "A book full of information and value to everyone who admires hardy trees and shrubs." The firm has broken away from the conventional style of presenting its offerings, and uses such catchy headings as these: Its Handsome Foliage Sells It; Rare and Choice Oddities; Most Interesting Tree in America; Roses Like These are Scarce; Extremely Popular Hardy Chrysanthemums, etc. Excellent advice is given on "Making an Old-Fashioned Garden." The lists of Deciduous Trees and Shrubs, Hardy Evergreens, Hardy Herbaceous Perennials, etc., are all extensive and interesting. The catalogue is beautifully illustrated.

ELLWANGER & BARRY, Rochester, N. Y.—The catalogue of this long established and well-known firm is always a welcome visitor, both for its completeness, correctness of nomenclature, and the attractiveness of its make-up. As usual, it is replete with offerings of Fruit and Ornamental Trees, Evergreens, Hardy Roses, Hardy Herbaceous Flowering Plants, Climbing Vines, etc. The illustrations are numerous and beautiful in roses, attention is directed to the new varieties, Etoile de France, Philadelphia and Frau Karl Druschki, Leuchstern and Rubin, the latter resembling Crimson Rambler, having larger flowers of a deep red or ruby color. A separate pamphlet contains a list of the firm's novelties and specialties, including Lemoine's new Hybrid Deutzias and new Philadelphia, also an interesting list of new lilacs, roses, etc. Ellwanger & Barry's exhibit of nursery stock at the World's Fair, St. Louis, was awarded the gold medal.

Out of Sight, Out of Mind.

The other fellow's ad. will appear in our Spring Edition, March 25; if yours is not there, also, you'll be forgotten when buying time comes, and the moral is plain: Be there.

HAVING BEEN AWARDED THE **GRAND PRIZE**
 For My Exhibition of **GLADIOLI** AT THE **WORLD'S FAIR**

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Grower's Hybrids and other sorts, the best obtainable.
 Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**


Mention the Florists' Exchange when writing.

TUBEROUS ROOTED BECONIAS

GOLD MEDAL STRAIN. Per 100 Per 1000
 Single, in five separate colors, \$3.00 \$27.50
 Single, finest mixed colors, 2.75 25.00
 Double, in five separate colors, 4.00 37.50
 Double, finest mixed colors, 3.75 35.00

HUBERT & CO. Ltd., MT. VERNON, N. Y.
 N. LE PAGE, Rep.

Mention the Florists' Exchange when writing.



WARD'S
 HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
 17 Battery Pl., NEW YORK


Mention the Florists' Exchange when writing.

Catalog Engravings
 and **ILLUSTRATIONS**

that print EASILY. That's the kind we make—have been since '73.
 Horticultural
JAS. M. BRYANT, Engraving and Printing
 706 Chestnut Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

SOW NOW



Rawson's Flower Market Stock
 INCOMPARABLE IN QUALITY
 White..... 1/4 oz. 75c., oz. \$5.00
 Any other col., 1/4 oz. 80c., oz. \$4.00
W. W. RAWSON & CO.
 Seedsmen,
 12 Faneuil Hall Square, BOSTON, MASS.

Mention the Florists' Exchange when writing.

Unminced Words.

THE FLORISTS' EXCHANGE is the best-paying trade medium to the advertiser to-day. Its **Spring Edition** will be issued March 25. You can't afford to be out of it.

QUALITY SEEDS BULBS PLANTS

SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
 342 West 14th St., New York,

Mention the Florists' Exchange when writing.

LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an untried seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.
WEST GROVE, PA.

Mention the Florists' Exchange when writing.

AMERICAN TREE SEEDS AND PLANTS	Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it. OTTO KATZENSTEIN & CO. Tree Seeds and Plants Specialists, ATLANTA, GA
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Mention the Florists' Exchange when writing.

HELP! HELP! HELP!

I have a surplus of 200,000 CALIFORNIA PRIVET, 2 and 3 years, in all sizes, and I want you to help me dispose of it. This Privet is well grown, well graded, strong and stocky, and I am sure it will please you. It will pay you to let me quote you before you buy.

C. A. BENNETT, ROBBINSVILLE, N. J.

Mention the Florists' Exchange when writing.

PRIVET FOR SALE

Three hundred and fifty thousand (350,000) plants, all sizes, and of 2, 3 and 4 years old. All cut back, and now forked with three or four stems. Suitable for quickly making a thick hedge. We offer in four sizes, 2, 3, 4 and 5 feet high. Prices cut in half. F.O.B. Bristol, Pa.; terms 30 days from date of shipment. Do you want any—what size and how many? Orders now booked for shipment in March and April.

D. LANDRETH SEED COMPANY, Bristol, Pennsylvania

Mention the Florists' Exchange when writing.

Ornamental Trees and Shrubs

The Ornamental Department of our business has been a specialty with us since the foundation of these Nurseries, fifty-two years ago. We have large blocks of Oriental Planes, Sugar and Weir's Maple, Pin and Red Oaks, Lombardy Poplars and Weeping Willows, also fine specimen Hemlock Spruce from 2 to 5 feet. Fifty Acres of Shrubs of the best kinds for ornamental effect. Fifty varieties of Lilacs, eighteen of Altheas, seventeen of Spiraeas, nine of Deutzias and a large stock Viburnum tomentosum. Trade Lists for Spring, 1935, mailed to applicants.

HOOPES BRO. & THOMAS, Maple Ave. Nurseries, West Chester, Penna.

Mention the Florists' Exchange when writing.

Bloodgood Nurseries, Inc.

Established 1790

Successors to **KEENE & FOULK, Flushing, N. Y.**

Norway Maples, 1 1/2 to 3 in. diameter. Silver Maples, 1 to 2 1/2 in. diameter.
 Sugar Maples, 1 to 2 1/2 in. diameter. American Elms, 1 1/2 to 3 1/2 in. diameter.
 Salisburia adiantifolia, 8-12 in., and a large stock of assorted shrubs. Rhododendron Hybrids.
 Rhododendron Maximum, Kalmia latifolia, fine collected plants in carload lots.
 Hybrid Perpetual Roseae. Deciduous Shrubs. California Privet, 1 to 3 1/2 in.

REASONABLE PRICES
 Mention the Florists' Exchange when writing.

FORCING STOCK FOR EASTER

AZALEA MOLLIS, full of buds, nice even heads, force easily. 12 to 15 in. high, \$30.00 per 100 to 18 in. high, \$40.00 per 100.
DEUTZIA GRACILIS, grown especially for pot culture; very bushy. 12 to 15 in. high, for in. pots, \$6.00 per 100; 15 to 18 in. high, for 7 or 8 in. pots, \$8.00 per 100.
DEUTZIA LEMOINEI, similar to Gracilis, but stronger grower, 15 to 18 in. high, for 5 in. pots, \$8.00 per 100; 18 to 24 in. high, for 7 or 8 in. pots, \$10.00 per 100.
RHODODENDRONS, best named Hybrids, bushy and full of buds. 20 in. high, \$9.00 per doz., 24 in. high, \$12.00 per doz.; 30 to 32 in. high (heavy), \$24.00 per doz.
Spiraea Japonica \$3.00 per 100. **Spiraea Nana Compacta** \$4.00 per 100.

THE STORRS & HARRISON CO., Painesville, Ohio

Mention the Florists' Exchange when writing.

PIN OAKS
SPECIAL LOW OFFER

Will move, this spring, a block of fine stocky trees; twice transplanted. In good roots, stems, caliper and tops they will please critical buyers. Low rates for March and April orders. Sizes 6 to 7, 7 to 8, 8 to 9, 9 to 10, and 10 to 12 feet.

ASK OUR PRICE AND SAVE MONEY

ANDORRA NURSERIES, Wm. Warner Harper, Prop., CHESTNUT HILL, PA.

Mention the Florists' Exchange when writing.

VEGETABLE PLANTS

CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per 100; \$1.00 per 1000; \$3.50 per 10,000.
PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.
LETTUCE Big Boston, Boston Market and Grand Rapids, 25 cts. per 100; \$1.00 per 1000.
TOMATO Lordard seed bed plants, 50c. per 100, by mail; \$2.00 per 1000, express. 2 1/4 in. pot plants, 40c. per doz., \$2.00 per 100.

Miscellaneous Plants

2 1/4-in. stock in A1 condition. Per 100 1000
 Abutilon, Savitzii..... \$2.00
 Ageratum, Dwarf White and Stella Gains..... 40c. per doz.; 2.00 \$17.50
 Alyssum, Dwarf White and Giant Double..... 40c. per doz.; 2.00 17.50
 Alternanthera, red and yellow in var..... 2.00 15.00
 Aquilegia (Columbine), single mix'd 3.00
 Cannas, 10 var. 3 in. pots .. 4.00
 Carnations, Dwarf hardy mixed .. 1.50 12.50
 " Marguerite .. 1.50 12.50
 Colens, in good variety..... 2.00 15.00
 Cuphea, (Gigar Plant)..... 2.00
 Delphinium Formosum..... 1.50 12.50
 Digitalis (Fox Glove), fine mixed.. 1.50 12.50
 Ficus Elasticus, (Rubber Plant), per dozen \$1.00.
 Fuchsias, Black Prince & Minnesota, 2.00
 Gaillardia Grandiflora..... 3.00
 Geraniums, Rose, Lemon, Mrs. Taylor and Fernifolia odorata..... 2.00
 Hardy Chrysanthemums, small-flowering varieties..... 2.00 17.50
 Hardy Chrysanthemums, large-flowering varieties .. 3.00 20.00
 Our collection of Hardy Chrysanthemums was awarded the diploma at New York by the American Institute.

MISCELLANEOUS PLANTS
 (Continued)

Per 100 1000
 Hardy Phlox, 10 named var..... \$3.00
 Hardy English Ivy..... 2.00 \$16.00
 Heliotrope, good varieties..... 2.00 17.50
 Hibiscus, 3 varieties..... 3.00
 Hollyhock, double white and mixed, 3 in. pots..... 3.00
 Lemon Verbena..... 2.50 17.50
 Lantanas, 10 varieties..... 2.00 17.50
 Maranta Massangeana .. 4.00
 Moonvines, white and blue, 50c. per dozen .. 3.00 25.00
 Panicles, fine, strong, mixed, in bud, 1.50 12.50
 Petunias, Dreer's double mixed... 2.50
 " 5 named varieties..... 3.00
 " Dreer's superb single mixed 2.00 15.00
 " fine mixed..... 1.50 12.50
 Sage, Holt's Mammoth..... 2.00 15.00
 Salvia, in variety..... 2.00 17.50
 Smilax, strong..... 2.00 15.00
 Stevia, variegated..... 2.00
 Swalsona Alba and Rosea..... 2.00 17.50
 Sweet William, double mixed, 3 in. 3.00
 Verbenas, white, purple and scarlet separate..... 2.00 15.00
 Verbenas, good mixed..... 1.50

GERANIUMS

Good, strong stocky plants, from 2 1/4 in. pots.
 Doubles, Brant, Centaur, Comtesse de Barcourt, Double General Grant, Gloire de France, Jean Visard, La Favorite, Le Cid, Mme. Canovers, Mme. Charlette, Mme. Joslin, Mme. Landry, Miss Kendall, Miss Frances Perkins, Singles, Granville, Mme. Brant, Mrs. E. G. Hill, Queen of the West, Single General Grant.
 40 cts. per dms., \$2.00 per 100, \$17.50 per 1000, providing that not less than 200 of any one variety. Send for our descriptive Geranium Catalogue.

DAHLIA ROOTS
 Good selection of standard varieties, \$5.00 per 100; \$40.00 per 1000. Mixed, \$4.00 per 100; \$35.00 per 1000.

Our Collection of **HARDY POMPON CHRYSANTHEMUMS** is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

Not less than five of any one variety sold.

Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List

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

Mention the Florists' Exchange when writing.

PRIVET AND BOX EDGING

Fine, home-grown stock of both at reasonable prices. Trees, Shrubs and Vines in assortment. SEND FOR WHOLESAL LIST.

SHREWSBURY NURSERIES, Eatontown, N. J.

Mention the Florists' Exchange when writing.

F. & F. NURSERIES SPRINGFIELD NEW JERSEY

Wholesale Growers TREES AND PLANTS in full assortment Trade Catalogue Free

Mention the Florists' Exchange when writing.

August Rölker & Sons, 31 BARCLAY STREET, New York P. O. Box 752.

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Deliveries.

Mention the Florists' Exchange when writing.

RHODODENDRONS

Maximum, per 100, 6 in., \$5.00; 12 in., \$10.00; 18 in., \$15.00; 24 in., \$20.00; 30 in., \$25.00; 36 in., \$30.00; one or more stalks, with grub, 50c. to \$1.00 each. Choice plants. Cash with first order.

I. N. PRITCHARD, ELK PARK, N.C. Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET CHEAP

100,000 well grown plants, 3 to 4 ft., selected, 4.00 per 100; \$25.00 per 1000. 2 1/2 to 3 1/4 ft., 7 or more branches, \$2.50 per 100; \$17.50 per 1000; 20 to 30 in., 5 or more branches, \$2.00 per 100; \$13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, 1.50 per 100, \$7.00 per 1000. All of the above boxed, o. b. here. For car or large lots write before placing your orders.

CHAS. BLACK, - HIGHTSTOWN, N. J. Mention the Florists' Exchange when writing.

LARGE TREES

Maple, Norway, fine Straight Stock, 2-2 1/2, 2 1/2-3, 4 in. diameter. Maple, Silver, 2-2 1/2, 2 1/2-3, 3-4 in. diameter, Negundo, 2-2 1/2. Linden, American, 2 1/2-3, 3-4 in. Argentea, 1 1/2-2, 2-2 1/2, 2 1/2-3. European, 1 1/2-2, 2-2 1/2, 2 1/2-3. Poplar, Carolina, 1 1/2-2, 2-2 1/2, 2 1/2-3. Lombardy, 1 1/2-2, 2-2 1/2. Bolleane, 1 1/2-2, 2-2 1/2. Besides the above we have large stock of Planes, Ash, Birch, Willows in strong stock. Evergreens in large sizes and great variety. Flowering Shrubs in large variety. California Privet, 2 years, 2 1/2 ft., very low in price. The above stock is all in very fine condition and will please. Get our prices.

OAK PARK NURSERIES, M. F. TIGER, Proprietor Telephone Call, 23 F. PATCHOQUE, L. I. Mention the Florists' Exchange when writing.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS ROCHESTER, N. Y. Mention the Florists' Exchange when writing.

TREES Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country. Gold Medal - Paris - Pan-American - St. Louis, 102 prize New York State Fair, 1904. Illustrated Descriptive Catalogue FREE on Request. ELLWANGER & BARRY Mt. Hope Nurseries, Rochester, N. Y. Drawer 1044 U Established 65 Years.

Mention the Florists' Exchange when writing.

Vegetable Plants

Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.

Write for price list.

J. E. HUTTON & SON CONYNGHAM, PA.

Mention the Florists' Exchange when writing.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

PETERSON NURSERY 605 W. Pelarson Ave. CHICAGO, ILL. Mention the Florists' Exchange when writing.

WHAT DO YOU WANT?

2000 Hydrangea Paniculata Grandiflora, 2 ft. 8c. 1 ft. 5c. 2000 Hydrangea Otaka, for 4 in., 8c.; 3 in., 4c. 2000 Spiraea Anthony Waterer, 2 years, strong, bushy, 8c.; medium, 4c. 1000 Clematis Paniculata, 3 years, heavy, 10c. Clematis Jackmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Veitchii, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 6000 Stokesia Cyanea, field-grown, \$3.00 per 100. 6000 best shrubs and vines, dahlias, etc. Send for list. BENJ. CONNELL, West Grove, Pa. Mention the Florists' Exchange when writing.

Forest Tree Seeds and Seedlings

Large Surplus Tree and Shrub Seeds Nursery Grown and Collected Seedlings Small Seedlings for Lining Out a Specialty. Send for Trade List.

FOREST NURSERY & SEED CO. Irving College, Tenn. Mention the Florists' Exchange when writing.

When in Europe come and see us and inspect our extensive Nurseries. Gouda is our railroad depot

Hardy, Fancy Ornamental Nursery Stock J. BLAAUW & CO.

BOSKOOP, HOLLAND Catalogue free on demand. Headquarters for the famous Colorado Blue Spruce - purest, bluest strain

Mention the Florists' Exchange when writing.

Large Shrubs

VIBURNUM TOMENTOSUM, fine bushes, \$25.00 per 100. DEUTZIA and HALEZIA, 6 to 8 ft., \$20.00 per 100. CRIMSON PEAR DOGWOOD, 4 to 5 ft., \$18.00 per 100. TREE ALTHEAS, 7 to 8 ft., \$6.00 per dozen.

Large Assortment of Trees and Shrubs.

SAMUEL C. MOON, MORRISVILLE, PA. Mention the Florists' Exchange when writing.

DAHLIA

Kaiserin Augusta Victoria

The Best White Dahlia in Existence. My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 5 ins. in diameter; a wonderful bloomer, stems 12 to 18 in. long; plants 3 to 3 1/2 feet high.

The finest plants obtained from cuttings. Good strong stock from 2 1/2 in. pots, \$3.00 per dozen; \$20.00 per 100. Delivery May 1st. Orders filled in rotation. Early booking suggested.

Highly Commended by the American Institute and the New York Florists' Club.

A. L. MILLER, JAMAICA AVENUE, Brooklyn, N. Y.

Mention the Florists' Exchange when writing.

Money By "Telegraph" THE TELEGRAPH GERANIUM

Will make money faster than any plant you handle this season. Will sell at sight of your bench for \$3.00 per doz. and give tone to your establishment. Extra strong 2 1/2 in. plants, \$15.00 per 100. On sale by the leading houses and

Thos. DeVoy & Son, Poughkeepsie, N. Y.

Mention the Florists' Exchange when writing.

30,000 DOUBLE PETUNIAS

Beautiful Whites, lovely shades of pink, splendid reds, crimson and purple and variegated. Rooted cuttings, by mail, \$1.25 per 100; \$10.00 per 1000, by express.

Petunia Grandiflora, 20 varieties, single Giants..... \$1.25 Draecena Indivisa, 3 in. 12 to 15 in. high. 4.00 Genista Fragrans, 4 in..... 5.00 Strobilanthes Dyerianus, strong, September cut..... 1.50 Ageratum, 3 varieties, R. C..... 75 Salvia, dwarf and tall..... 1.00 OASH with order, please.

GEORGE J. HUGHES, Berlin, N. J.

Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.

Mention the Florists' Exchange when writing.

The Best Buyers

of all classes of stock are waiting for our Spring Trade Number March 25. They depend on it to influence their selection and purchases.

KOSTER & CO.

Hollandia BOSKOOP, HOLLAND Nurseries Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies. Pot-Grown Plants for Forcing. RHODODENDRONS, H. P. ROSES, Etc. Catalogue free on demand.

Mention the Florists' Exchange when writing.

100,000 STRONG

One and two-year Palmetto Asparagus; 30 varieties of Strawberry; Ward Blackberry (send for descriptive circular) one of the most reliable for family or market; other small fruits. Peach and other fruit trees. Low Prices for First-Class Stock.

CHAS. BLACK, Hightstown, N. J.

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.

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DUTCH BULBS AND PLANTS

K. VAN BOURCONDIËN & SONS Wholesale Bulb Growers HILLEGOM, HOLLAND Until May write to K. H. VAN BOURCONDIËN Care Mailto & Ware, 136 Water St., - - New York Mention the Florists' Exchange when writing.

HELIOTROPE

2 1/2 in., \$2.00 per 100. COLEUS, 2 1/4 in., \$2.00 per 100. Cash with order, please.

W. H. PARSIL, Summit, N. J.

Mention the Florists' Exchange when writing.

PANSY PLANTS

Per 100 Large-flowering \$2.50 per 1000 \$0.60 Asparagus Plumosus Nanus, small plants..... 1.75 Geraniums, 10 Vars, 2 and 2 1/2 in. pot.. 8.00 Alternantheras, red and yellow, March 1 2.00 Coleus, 10 Vars, 2 in. pote, March 1..... 2.00

Chas JOS. H. CUNNINGHAM, Delaware, Ohio. Mention the Florists' Exchange when writing.

CYCLAMEN

SPLENDENS GIGANTEUM HYBRIDS. My well-known strain in five true colors (seedlings), twice transplanted from flats, including the fringed variety, well-grown plants, \$3.00 per 100, \$25.00 per 1000. Satisfaction Guaranteed PAUL MADER, East Stroudsburg, Pa.

Mention the Florists' Exchange when writing.

CINERARIAS

4000, 3 in. pote, very strong, medium large flowering, \$3.50 per 100. Asparagus Plumosus, 3 in., \$5.00 per 100.

CHRYSANTHEMUMS

Stock Plant. Polly Rose, Willowbrook, Montmort, Pacific, Morel, Appleton, Mand Dean, Ivory, white and yellow, Bonnafon, Golden Wedding, Jerome Jones, \$5.00 per 100.

J. D. BRENNEMAN, Box 24. HARRISBURG, PA.

Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

BARRYTOWN, N. Y.—John T. Withers is now manager of the Shatemuc Nurseries here.

THE EASTERN NURSERIES, M. M. Dawson, manager, Jamaica Plain, Mass., are distributing a neat hand-painted calendar, the subject selected for illustration being the rhododendron, one of this firm's specialties. The Exchange acknowledges receipt of one of the calendars, with thanks.

NEW YORK.—The contract for furnishing trees and shrubs to the Department of Parks was last week awarded to Frederick W. Kelsey, 150 Broadway, this city. Four bids were received, of which Mr. Kelsey's was the most favorable. The contract is for a general assortment of trees, conifers and hardy shrubs, to be delivered during the planting season of 1905. The amount of security required was \$3,000.

BERLIN, MD.—The nurseries of J. G. Harrison & Sons, of Berlin, Worcester County, have been damaged to the extent of at least \$300 by rabbits within the last week. The field in which young fruit trees have been attacked lies close to the woods, and the protracted cold weather has driven the rabbits to foraging for food. The season now is closed and there is a fine of \$5 for each rabbit killed. It is suggested that the best thing to be done for the rabbits is to feed them as the birds are being fed.

Ironclad Trees and Shrubs.

The list of ironclad trees and shrubs, as given in a recent issue of a contemporary, tested in the Northwest, through Professor William Saunders, is an extremely interesting one. But what a light list it is compared with what we are accustomed to use in our plantings here! And when we look through it and see but one oak, *Quercus macrocarpa*, how blessed we feel in having the two dozen or more species which are hardy here. It seems singular that this one oak alone will stand there. It is, of course, a very hardy sort, when taken from its northern limits. I have

still, these two trees have a wide range of growth in Europe, and it may be that the trees experimented with were obtained from seeds gathered in Northern Europe.

The list presents another curious feature in this, that in the case of some of the trees which succeed there, notably the birches of this country, the lenta and papyracea, there are other trees associated with them in a wild state which have, evidently, been found wanting in their ability to stand as much cold.

The Winter protection of the roots, by mulching where snow is not assured, which the report emphasizes as essential, will be indorsed by every one of experience. When unprotected and the ground is dry, should the frost penetrate deeply, it will kill out native trees. It has done so here. Rhododendrons and other broad-leaved evergreens suffer greatly under such trials. The present Winter, snow has covered the ground well, and in spite of the lasting cold of the season, it is confidently expected that the injury to nursery stock will be but little.

Altogether, the report of Professor Saunders and his co-laborers on the hardy trees of the Northwest is one of great value to nurserymen.

Tree Althæas.

The tree althæas which Samuel C. Moon mentions suggests the use of many other shrubs in the way of standards. There is room on many a place for a diversified collection of shrubs, and this change from shrub shape to tree shape often fits in a planting plan to advantage. We already have in the trade tree spiræas, tree mock oranges, tree hydrangeas and the like, and, besides the addition of the althæa, there are other shrubs that could be treated in a similar way to swell the list to advantage. Very often these tree forms come in nicely for placing one on each side of a walk. In this shape (the tree form) they are just as good for planting in the positions named as are the Catalpa Bungei, *Cerasus pumila* and other sorts with simply dwarf rounded heads, not weeping. Some of the shrubs named, such as the mock orange, deutzia and spiræa, can be pruned to be almost of the same shape. The althæa, flowering from new wood, needs pruning closely in Winter.

It hardly need be said that the production of the standard shrub is merely the cutting away of all but a central, strong shoot, which is headed at about 5 to 6 feet. If no central shoot is there, cut to the ground a plant, that such a shoot may be produced.

Tulip Poplar Seeds.

In a private letter before me a correspondent mentions having received from a seedsman a lot of seeds of the tulip poplar, which, he says, were the most trashy lot he ever saw, no more than half of a great number he cut open being sound; the other half "were entirely hollow." He asks what redress he would have from one sending him such seeds. I have told my friend that he has no redress for that those familiar with the seeds of the tulip poplar would be well satisfied with one half of them good in a quantity. In fact, one half good is first-class seeds. There

are always many hollow ones, and if no more than one half are bad, it is a good sample.

There are many seeds which never perfect all they bear. Take the sugar maple, for example. The seeds are borne in pairs, and of each pair one is nearly always hollow. If both are good, which is occasionally the case, the sample is a very superior one. There are many other instances where it is the rule that a certain number of the seeds are always hollow; besides that, other causes, such as peculiarities of season, for instance, tend to lessen the number of perfect seeds. And, as in the cases of the tulip poplar, maple and similar seeds, there is no way to separate the good from the bad. Buyers have to understand what the seeds are before purchasing. To enable them to do this many seedsmen name some of the most prominent of this class of seed, and I well remember one who particularly mentions the tulip poplar, the one kind my friend referred to as "the most trashy lot he ever saw."

The Climbing Hydrangea.

S. W. Fitzherbert has the following notes on the climbing hydrangea in Gardening Illustrated:

"I note that Mr. Joseph Meehan, in The Florists' Exchange, vide page 475, attributes the statement that 'the Kew authorities hold that *Hydrangea scandens*, *H. petiolaris*, and *Schizopragma hydrangeoides* are one and the same' to me. In this he is in error. The statement was made in a short article which accompanied an illustration of the climbing hydrangea (page 307), in which occurs the sentence, 'This (*Hydrangea petiolaris*) is, according to the Kew Hand List, the correct name of the plant sometimes met with as *Hydrangea volubilis*, *Hydrangea scandens*, and *Schizopragma hydrangeoides*.' In my note on page 345 I drew attention to this statement, and pointed out that in Nicholson's 'Dictionary of Gardening' *Schizopragma hydrangeoides* is said to be a very different plant from *Hydrangea petiolaris* or *scandens*, and that Mr. W. J. Bean, in an article in The Garden of August 15, 1896, describes the two as quite distinct. Now, Mr. Meehan says that, as grown in America, the two plants are certainly not the same. I have undoubtedly met with a plant grown under the name of *Schizopragma hydrangeoides* in Cornwall that was identical with what I have seen at Kew labeled *Hydrangea scandens*. Neither Mr. Nicholson, Mr. Bean, nor Mr. Meehan, though stating that the plants are distinct, mention wherein the difference lies. I am particularly interested in this question, and should much like to know if the statement on page 307, that these plants are at Kew considered one and the same, is correct or the reverse."

I can but repeat that the two are quite distinct, representing two different germs, just as Nicholson says. We have both growing here; and if Mr. Fitzherbert will give me his address it will be a pleasure to me to send him leaves of both when new ones are made. Then, should it be that the true hydrangea is the one he has not, I will mail him a small plant of it, if he will accept it. I could not promise him a *schizopragma* for certain. My stock is low, but I might secure a small one for him. The difference in foliage is thus: The leaves of the hydrangea are larger and finely serrated; those of *schizopragma*, besides being much smaller, are sharply dentate and the margins further apart. Then there is the generic difference. The sterile flowers of *schizopragma* are composed of a single bract; those of hydrangea are of four bracts. Be assured, every one, that the two kinds exist.

I am not positive, but think the true hydrangea was disseminated here by the late Peter Henderson, and that the *schizopragma* was sent out by Parsons & Sons' nursery.

Seeds of the Camphor Tree.

The advertisement in The Florists' Exchange of fresh camphor tree seed by one of your Florida patrons affords a chance to get good germinating seeds of this tree. When seeds of it are imported it is only by exercising great care in the packing that their vitality can be assured. In Florida the tree seeds freely, and advertisements of them have appeared in other years from that State.

The camphor tree will stand several degrees of frost without injury. In the south of England it takes the 10 to 15 degrees it meets with every Winter without harm; but it might not endure as much cold as that here under the changed conditions of climate in Winter.

The large, shining green leaves of the camphor make the tree a distinguished one on a lawn, and would it not make an excellent decorative shrub in a tub on a lawn in the North? Those familiar with it know that even the bruised leaves emit an agreeable camphor odor, and in the broken twigs this is still more evident. If nice plants were in pots, and its properties explained to visitors, florists might sell many a plant of it.

JOSEPH MEEHAN.

Syringa Japonica.

When in flower, *Syringa japonica*, the Japanese lilac, might be readily mistaken, upon first sight, for some species of privet. However, it is a lilac, and a most desirable one. It is the only tree-like member of the family, attaining a height of from 20 to 30 feet. During the early part of July it produces its numerous large clusters of creamy white blossoms, arranged in large panicles. The individual flower is small, but the aggregate forms a beautiful truss. This tree is quite hardy North, and on account of its flowering in July should be extensively planted, as trees and shrubs in blossom at that time are none too numerous.

JOHN F. JOHNSTON.

Glen Cove, L. I.



FLOWERING BRANCH OF SYRINGA JAPONICA

Photo by J. F. Johnston

still, these two trees have a wide range of growth in Europe, and it may be that the trees experimented with were obtained from seeds gathered in Northern Europe.

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SYRINGA JAPONICA

On Grounds of C. S. Harrison, York, Neb.

seen in its wild state about Chicago, and, no doubt, it runs farther West than that, and there are other oaks growing as far north as it does.

In the report referred to, it is said: "Some trees, including the maples, were hardy if grown from seed ripened in the Northwest Territories; otherwise not." Too much emphasis cannot be placed on this. Taking the *Quercus macrocarpa*, for instance, it grows, as mentioned, about Chicago, and it can be had in Ken-

CANNAS Dwarf French or Crozy and Italian Sorts



THE DORMANT ROOTS we offer are large, clean, healthy pieces, containing many eyes, and will stand subdivision, and must not be classed with some small pieces of roots so often sent out by others.

- Chas. Henderson Italia Flamingo M. Washington
F. Vaughan Austria Fair Persian Italia Allemania Virginia
A. Bouvier Queen Charlotte Morning Star Burbank Pierson's
Mme. Crozy Paul Marquant Peachblow

FOLIAGE VARIETIES.—Shenandoah, Robusta, Grand Rooze.

PRICES OF DORMANT ROOTS of any of the above standard varieties: Doz. 30c., 100 \$2.00, 1000 \$15.00. Not less than six of one variety furnished at dozen rates; 25 at 100 rates; 250 at 1000 rates.

We are headquarters for Cannas and grow upward of 25 acres, representing at least half a million roots. Besides the above, we offer other choice varieties. See catalogue.

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Corner Jane Street. Telephone, 1063 Chelsea

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Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

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100,000 ALTERNANTHERAS

Strong rooted cuttings, Brilliantissima, new deep red a fine variety, 75c. per 100 or \$6.00 per 1000...

DAVIS BROS., Morrison, Ill. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS NOW READY

Wm. Duckham, Dr. Enguehard J. C. Nevill, F. S. Wallis, Ben Wells, Donald McLeod, rooted cuttings \$3.00 per 100...

R. ENGELMANN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

REX BEGONIAS

2 in., \$3.00; 3 in., \$6.00. ENGLISH IVY, 2 1/2 in., \$2.50; 2 in., \$2.00; 4 in., (two plants in a pot), \$8.00...

J. H. DANN & SON, Westfield, N.Y. Mention the Florists' Exchange when writing.

IVY

Hardy large leaf variety, bushy, 4-5 ft. high, 6 in. pots, \$16.00 per 100. Rooted cuttings, very strong, 5-8 eyes, \$1.25 per 100; \$10.00 per 1000.

JOHN RECK & SON, Bridgeport, Conn. Mention the Florists' Exchange when writing.

GERANIUMS Rooted, then potted and left grow a month or more. Nutt, Perkins, Buchner, Doyle, Polytine, Ricard, Brunetti, Castellani, etc., \$16.00 per 1000.

COLEUS Versch. G. Bedder, Red, with broad gold border, fine, \$6.00 per 1000. Fancy, all brightest, extra choice, \$5.00 per 1000.

DANIEL K. HERR, LANCASTER, PA. Mention the Florists' Exchange when writing.

PANSIES—200,000

Fine, large, transplanted plants, prize strain of the famous large flowering Bugnots, Cassiers, Odler and Trimardeau. Stocky plants, from cold frame, 60cts. per 100, by mail; \$3.00 per 1,000, by express.

HILLTOP GREENHOUSES 15-16 Gray Ave, Utica, N.Y. Mention the Florists' Exchange when writing.

PANSIES

A superb strain of our own raising. Large Transplanted plants 50c. per 100 by mail; \$3.00 per 1000 by express.

C. WHITTON, City Street, Utica N. Y. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS PREPAID PER 100

Ageratum, S. Gurney, 60c.; Alyssum, Giant Double, 75c.; Alternantheras, best Red and Yellow, 60c.; \$4.00 per 1000; Coleus, best bedders, 60c.; Fuchsia, Trophee, and other fine sorts, \$1.00; Salvia, Bonfire and Splendens, 90c.; Double Petunias, 10 very fine sorts, \$1.00; \$9.00 per 1000; Heliotrope, blue, \$1.00; Verbena, Giant, Seedlings, Mixed Drier's seed, 30c. Cash.

BYER FLORAL CO., Shippensburg, Pa. Mention the Florists' Exchange when writing.

Get There! Get There! Get There!

What did you grow your stock for? To sell it, of course. You'll 'get there,' sure, if you use the Spring Edition of THE FLORISTS' EXCHANGE. Issued March 25.

ROOTED CUTTINGS

Table with 2 columns: Item name and Price per 100. Includes Coleus, Ageratum, Stella Gurney, Salvia, Heliotropes, Alyssum, Fuchsias, Double Petunias, Geraniums, Feverfew, Asparagus, Cannas.

By mail 12c per 100 extra. Cash with order.

ERNEST HARRIS, Delanson, N. Y. Mention the Florists' Exchange when writing.

PARIS DAISY

Giant white, 2 in. 2c. Asparagus Plumosus Nanus, 3 in., very fine, 6c.; Sprangeri, \$1.75 per 100. Abutilon, 6 vars., 2 1/2 in., 3c. Umbrella Plants, 2 in., 2c. Hardy Pinks, field clumps, 6 kinds, 3 1/2c. Salvia, Bonfire, Splendens, Silverspot, 2 in., 2c. \$17.50 per 1000.

LIST BELOW, ROOTED CUTTINGS, prepaid, per 100: Ageratum, Gurney, Pauline, white, 50c. Salvia Splendens, Bonfire, Silverspot, 90c; \$8.00 per 1000. Fuchsias, 5 best vars, \$1.25; Heliotrope, \$1.00; Double Petunias, 10 finest, \$1.00; Hardy Pinks, 7 sorts, some ever-bloomers, 75c., \$7.00 per 1000; Alternanthera, red, yellow, R. C., 50c., \$4.00 per 1000; Vinca, variegated, 90c.; Everblooming Forget-me-not, \$1.00; Tradescantia, 2 kinds, 75c. Swainsona Alba, Artillery Plant, 75c. Paris Daisy, \$1.00. Stevia serrata, and variegata, 75c. Coleus, 10 kinds, 60c. Chrysanthemum Weeks, \$1.00.

CASH. BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

VINCA

var. strong 3 in., plenty of leads, ready for a shift 4.00 per 100; 3 1/2 in., 6 cents. Cash. J. W. ENGLE, R. D. No. 8, Dayton, O. Mention the Florists' Exchange when writing.

GERANIUMS

ROOTED CUTTINGS Fifteen varieties at \$10.00 and \$12.50 per 1000. Send for complete price list of Geraniums and Carnations.

ALBERT M. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN. Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order.

E. B. JENNINGS, 254, Lock Box Southport, Conn. Grower of the Finest Pansies. Mention the Florists' Exchange when writing.

GERANIUMS

ALL STOCK BOOKED FOR THIS MONTH

Peter Brown, LANCASTER, PA. Mention the Florists' Exchange when writing.

COLEUS

For Sale: Rooted Cuttings, strong and clean, of Golden Bedder, Verschaffeltii, Victoria, \$8.00 per 1000. Harrisii Lillies in pots and cut, cut 10c. per flower; in pots 12c. per flower.

I. H. EISENBERG, 440 Albert Street, LONG ISLAND CITY. Mention the Florists' Exchange when writing.

RIGHT HERE IN CONNECTICUT

Clean, Strong, Healthy Rooted Cuttings and 2 in. Pot Stock Now Ready

Table with 2 columns: Item name and Price per 100. Includes Coleus, Ageratum, Geranium, Cuphea, Heliotrope, German Ivy, Plants.

D. WM. BRAINARD L. B. 373 Thompsonville, Conn. Mention the Florists' Exchange when writing.

COLEUS

ROOTED CUTTINGS

Verschaffeltii, Fire Brand, Golden Queen, Beckwith's Gem, Lord Palmerston, and Fancies, 80c. per 100; \$5.00 per 1000. Golden Bedder (original) and Hero 75c. per 100; \$6.00 per 1000. A discount of 10 per cent. allowed on 10,000 or more Coleus. More liberal discount on large orders.

AGERATUM, Princess Pauline and Stella Gurney. SALVIA, Splendens and Jean Bevenal, rooted cuttings, 75c. per 100; \$6.40 per 1000. VINCA VARIEGATA, 3 in pots, \$5.00 per 100. HELIOTROPE, 75c. per 100; \$6.00 per 1000. All cuttings sent by mail, add 20 cts. per 100.

FRANK A. PIERSON, Cromwell, Conn. Mention the Florists' Exchange when writing.

SHAMROCK

...IRISH...

Grown from cuttings, very strong and fine. None better offered. Will be just right for St. Patrick's Day. Don't wait until all are sold. \$4.00 per 100, or 60c. per doz. by mail.

XXX STOCK, READY FOR 3 IN. POTS

Labellia, Emperor William, finest dwarf dark blue, grown from cuttings, \$2.00 per 100. Heliotropes, Light and dark, \$2.00 per 100. Lantana. Pink and yellow, \$3.00 per 100. Ageratum, "Gurney," best dwarf blue, \$2.00 per 100.

Verbenas, California Giants, seedlings, finest grown, mixed, strong 2 in., \$2.00 per 100. Petunias, New Star, from the finest marked star flowers, \$2.00 per 100.

Phlox, New dwarf, Grand for pots. A good seller. Mixed, \$2.00 per 100.

CASH. Extra added liberally. JOHN F. RUPP, Shiremanstown, Pa. The Home of Primroses. Mention the Florists' Exchange when writing.

LOOK THIS OVER

We have ready now 100,000 Geraniums, composed of the following varieties in 2 1/2 in. pots, at \$18.00 per 1000; \$2.00 per 100. S. A. Nutt, Besse Polytine, M. Canovers, Double Gen. Grant, Brunetti, R. Erett, La Favorite, Perkins, all in fine condition. At these prices the selection of sorts to remain with us, these Geraniums, same price.

Fuchsias, in variety, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, \$1.60 per 100. Coleus, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, 80c. per 100. Golden Bedder and Verschaffeltii in quantities. Heliotrope, all dark, 2 1/2 in. pots, \$3.00 per 100; rooted cuttings, \$1.00 per 100. Vinca, strong, 4 in. pots, \$6.00 per 100; rooted cuttings, \$1.26 per 100. English Ivy, 2 1/2 in. pots, \$2.60 per 100; rooted cuttings, \$1.26 per 100. German Ivy, 2 1/2 in. pots, \$2.50 per 100. Abutilon, Souvenir De Bonn, 2 1/2 in., \$3.00 per 100. Feverfew, 2 1/2 in., \$2.50 per 100. Dracena, 4 in., \$8.00 per 100. Blue Lobelia, 2 in., \$3.00 per 100; R. C., \$1.00 per 100. Salvia, 2 in., \$2.00 per 100; R. C., \$1.00 per 100. Ageratum, Stella Gurney, Princess Pauline and others, 2 in., \$1.50 per 100; R. C. 60c. per 100. Double Petunias, 2 in., \$2.50 per 100; E. C., \$1.60 per 100. Cash must accompany the order.

J. E. FELTHOUSEN, Schenectady, N. Y. Mention the Florists' Exchange when writing.

CARNATIONS

Wm. Penn, a promising pink novelty, the greatest bloomer ever happened. From soil, \$10.00 per 100; 25 for \$2.50. Queen Louise, from soil, \$10.00 per 1000 Floriana, from soil, \$12.50 per 1000.

BIG BATCH OF CUTTINGS FROM SAND, READY MARCH 20

CERANIUMS

100,000 Smilax, 50,000 Asparagus Sprengeri, 50,000 Asparagus Plumosus and Robustus. Ready June 1. Send for Prices.

SEND FOR MARCH PRICE LIST

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

The Lewis Conservatories MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist

Mention the Florists' Exchange when writing.

CARNATION SUCCESSOR

Cross between Wm. Scott and Lizzie McGowan best pink blooming carnation grown to date; no blank wood; 2 1/2 in., 3 in., \$6.00 per 100; \$66.00 per 1000.

H. L. PATHEY, Bay Shore, N. Y.

Mention the Florists' Exchange when writing.

New Carnation CRISIS

THE FINEST SCARLET. PERFECTLY HEALTHY. LARGE FLOWER. THE BEST SHIPPER. LONG STEM. BRINGS THE HIGHEST PRICE. NEVER FADES. THOROUGHLY TRIED. NEVER BURSTS. A MONEY MAKER.

PRICE: \$12.00 per 100; \$100.00 per 1000.
SEND FOR CIRCULAR.

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

RED SPORT (Of Maceo.)

Red Sport has proved the greatest money-maker we ever grow, producing more good blooms to the square foot of bench room than any other variety on the place. During the glut the first part of January we could only get four cents for fancy Lawson and sold every Red Sport we had at five cents. Every grower who was here in December was carried away with its possibilities, as a future supply of a "hilly berry red" for Xmas. There is no pick in the blooms. They are all a uniform size and color. There are 40,000 or 50,000 buds showing in different stages of development at this time and there is not a split or off color bloom in the lot and every plant is the picture of health. We will plant 20,000 plants of Red Sport for next season's bloom and the cut is already engaged by two of Washington's leading retailers. Red Sport is an easy doer and everyone can grow it as successfully as we can. Price for Feb. 20th delivery—12 for \$1.50; 25 for \$2.50; 50 for \$4.00 post-paid; \$6.00 per 100; \$50.00 per 1000.

QUEEN LOUISE, still the greatest money-maker of any white; our stock is very vigorous and healthy. \$1.25 per 100 post-paid; \$10.00 per 1000. We guarantee stock to arrive in good condition and be well rooted.

A. B. DAVIS & SON, Carnation Specialists, PURCELLVILLE, VA.

Mention the Florists' Exchange when writing.

WE CAN SHIP

WHITE LAWSON

AT ONCE

We sent this variety out last season; it has given general satisfaction.

Our Stock Is Pure White

Rooted Cuttings, \$7.00 per 100; \$60.00 per 1000. Special prices on larger quantities. Send for our Catalogue.

CHICAGO CARNATION COMPANY

James Hartshorn, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

GREEN CARNATIONS

Preparations for making same For sale and guaranteed by

HARRY D. EDWARDS
527 York St. NEWPORT, KY.

Sample for the asking.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

	White	per 100	1,000
Queen	2.50	20.00
Queen Louise
Boston Market	2.00	16.00

	Pink	per 100	1,000
Nelson Fisher	8.00	.....
Ethel Ward	4.00	.....
Enchantress	3.00	25.00
Fair Maid	2.00	16.00

	Crimson	per 100	2,000
Harlowarden	2.50	20.00

	Variegated	per 100	1,000
Judge Hinesdale	4.00	.....
Prosperity	2.00	16.00

S. J. REUTER, Westery, R. I.

Mention the Florists' Exchange when writing.

ROOTED Carnation Cuttings

All orders filled in rotation.

	Per 100	Per 1000
Mrs. M. A. Patten, Var.	\$6.00
White Lawson	6.00
Flamingo, scarlet	6.00
Albatross, white	5.00
Enchantress	3.00
Queen, white	8.00
Boston Market, white	3.00
Queen Louise	2.00
Lawson	2.00
J. H. Manley, scarlet	2.00
Challenger	2.00

Write for prices on large lots. 6 per cent. discount for cash with order.

JAMES D. COCKCROFT, Northport, Long Island, N. Y.

Mention the Florists' Exchange when writing.

CARNATIONS. ROSES.

Genevieve Lord.	Gen. MacArthur.
Lawson.	Perie.
Fair Maid.	Ivory.
Mrs. Patten.	Bride.
Enchantress.	Bridesmaid.
Gen. Gomez.	Golden Gate.
Apollo.	Uncie John.
Florning Glory.	Chatenay.
White Cloud.	American Beauty
Wolcott.	Kaiserin.
Prosperity.	La Detroit.

We offer rooted cuttings of the above at lowest market rates. All first-class stock; cuttings carefully selected.

We wish to call special attention to Gen. MacArthur which we believe to be the coming red rose. Prices on application.

Poinsettias, one year old, \$5.00 per 100.

THE GASSER COMPANY,
Euclid Avenue, Cleveland, Ohio.

Mention the Florists' Exchange when writing.

CARNATIONS

60,000 rooted cuttings; good strong plants, now ready for delivery.

	Per 100	Per 1000
MRS. T. W. LAWSON	\$2.00 \$16.00
WHITE LAWSON	5.00 46.00
MRS. M. A. PATTEN	4.50 40.00
BOSTON MARKET	2.00 18.00
PROSPERITY	2.00 18.00
ADMIRAL CERVERA (var.)	2.00
MRS. T. W. LAWSON and BOSTON MARKET, from 2 1/2 in. pots or flats, good strong plants from cuttings made last November	20.00

500 at 1000 rates. Satisfaction guaranteed. Cash with order.

VIOLETS PRINCESS OF WALES Unrooted cuttings, ready now, 50 cts. per 100; \$4.00 per 1000.

Rooted cuttings, ready for delivery in March, 1906, \$1.50 per 100; \$12.00 per 1000.

ALYSSUM LARGE DOUBLE SWEET, rooted cuttings, 75 cts. per 100; from 2-in. pots, \$1.50 per 100.

FD. BOULON & SON SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

RED LAWSON

Sport from Mrs. Thos. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's a way ahead of all the reds.

Price, per 100 \$75.00; per 1000 \$10.00. 250 at 1000 rate.

ROOTED CUTTINGS

	Per 100	Per 1000
2000 FAIR MAID	ready now \$2.00 \$12.50
4000 QUEEN	" " 2.00 15.00
8000 BOSTON MARKET	" " 2.00 12.50
2000 QUEEN LOUISE	" " 1.25 8.00
1000 MRS. ROOSEVELT	" " 1.25 10.00
1000 DEXTER PIERCE (bright red)	" " 1.00 10.00

Satisfaction guaranteed or money refunded.

Quidnick Greenhouses, Anthony P. O., R. I.

J. H. CUSHING, Prop.

Mention the Florists' Exchange when writing.

CARNATIONS

	Per 100	Per 1000
Harlowarden	2.00
crimson	\$3.00
Harry Penn	2.00
Enchantress	4.00
Fair Maid	2.00
Alpine Glow, very free	1.50
Queen Louise	1.50
Flora Hill	2.50
Prosperity	2.00
Gov. Wolcott	2.00
G. H. Crane	2.00
Challenger	2.00
T. W. Lawson	3.00
Frances Joseph	1.00
Wm. Scott	1.50
Mrs. Fisher	1.00

Exceptionally healthy and well rooted. 10 per cent. off by the thousand.

HANSEN & LUNDSTED, Passaic, N. J.

Mention the Florists' Exchange when writing.

The Beautiful Pink Carnation CANDACE

Dissemination 1898, \$2.00 per doz., \$12.00 per 100, \$100.00 per 1000. Early-commercial.

Indianapolis Flower and Plant Co. and John Hartje, Indianapolis Ind.

Mention the Florists' Exchange when writing.

Carnations

F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

MODEL EXTENSION Carnation Supports

ALSO Wire Rose Stakes and Tying Wire

IGOE BROS. Manufacturers, 226 North 9th St. Brooklyn, N. Y.

Mention the Florists' Exchange when writing.

Variegated LAWSON

Sport of Mrs. Thos. W. Lawson. The flower is of the Mrs. M. A. Patten type and can barely be distinguished from it.

Rooted Cuttings \$12.00 per 100; \$100.00 per 1000

JOHN REIMELS
CEDAR LANE, WOODHAVEN, L. I., N. Y.

Mention the Florists' Exchange when writing.

MY MARYLAND

Was the Sensation of the Chicago Exhibition Easily outranks any other White

Awarded First Class Certificate of Merit by the American Carnation Society; Lawson Bronze Medal for 100 blooms, and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are banking orders now for delivery, January, 1906.

Price, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

Write us for other new and standard varieties.

H. WEBER & SONS
OAKLAND, MD.

Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS

All in Fine Condition, Well Rooted.

PINK.		LIGHT PINK.		RED.		WHITE.		
	100	1000		100	1000		100	
rs. T. W. Lawson	\$1 50	\$12 50	Enchantress	\$3 00	\$25 00	Estelle	\$2 50	\$20 00
ardian Angel	1 00	9 00	Morning Glory	1 50	12 50	Chicago	2 00	15 00
			Mrs. Higginbotham	1 25	10 00	Adonis	2 50	20 00
						Flora Hill	\$1 00	\$ 9 00
						White Cloud	1 25	10 00
						Her Majesty	1 50	12 50
						CRIMSON.		
						Harlowarden	2 00	15 00

VIETOR BROS., 51-53 Wabash Avenue, Chicago, Ill.
Mention the Florists' Exchange when writing.

FLAMINGO

Now ready; Rooted Cuttings. \$6.00 per 100, \$50.00 per 1000.
Cash with order from unknown parties.
E. MARQUISEE, SYRACUSE, N. Y.
Mention the Florists' Exchange when writing.

J. D. THOMPSON CARNATION CO.

JOLIET, ILL.
Carnations Our Specialty
Mention the Florists' Exchange when writing.

ETHEL WARD

(From soil), \$4.00 per 100.
ENN, \$15.00 per 1000. LAWSON and QUEEN LOUISE, \$10.00 per 1000.
MISSION, Clarkson St., FLATBUSH, BROOKLYN, N. Y.
Mention the Florists' Exchange when writing.

Strong Rooted Carnation Cuttings

Per 1000	Per 100
Enchantress, \$25.00	Adonis, \$20.00
rd, 9.00	Flamingo, 40.00
ngel, 10.00	Estelle, 15.00
swson, 9.00	Bradt, 10.00
iv. Wolcott, 10.00	Mrs. M. A. Patten, 40.00
ora Hill, 9.00	Peru, 8.00
oston Market, 20.00	Queen Louise, 7.00

Cash or C. O. D.
OL GARLAND, Des Plaines, Ill.
Mention the Florists' Exchange when writing.

ENCHANTRESS

Most popular and best paying of all CARNATIONS. Large stock of rooted cuttings now ready.
3.00 per 100; \$25.00 per 1000.
100 1000
White Lawson, \$6.00 \$50.00
The Queen, 2.50 20.00
Cardinal, from 2 in. pots, 12.00 ready now.
LARCHMONT NURSERIES LARCHMONT, N. Y.
Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Potted and from Sand
Nice clean stock of Enchantress, Nelson Fisher, M. A. Patten, Boston Market, Gov. Wolcott, White Cloud and Mrs. F. Joost. Last two varieties also unrooted.
Prices on application.
C. G. VELIE & SON, Marlborough, N. Y.
Valley View Greenhouses
Mention the Florists' Exchange when writing.

CARNATIONS

Chrysanthemums and Violets
Rooted Cuttings. Send for List
WILLIAM SWAYNE, P. O. Box 226, Kennett Square, Pa.

ROOTED CUTTINGS CARNATIONS

Per 100	Per 1000
Enchantress, \$3.00	Floriana, \$1.50
Lawson, 2.00	Morning Glory, 1.50
Queen Louise, 2.00	Gov. Roosevelt, 1.50
May Naylor, 1.50	

Strong healthy stock. Satisfaction guaranteed. Cash with order, please.
IEWEIT CITY GREENHOUSES, Jewell City, Conn

CARNATIONS

ROOTED CUTTINGS.
100 1000
Lady Bountiful, \$6.00 \$50.00
The Belle, 6.00 50.00
Flamingo, 6.00 50.00
Nelson Fisher, 6.00 50.00
Mrs. Patten, 8.00 50.00
Enchantress, 3.00 25.00
Manley, 3.00 25.00
Boston Market, 2.50 20.00
Harry Fenn, 2.50 20.00
Adonis, \$2.50 \$20.00
Lawson, 1.50 12.50
Prosperity, 1.50 12.50
Nelson, 1.50 12.50
Gov. Wolcott, 1.50 12.50
Fairmaid, 1.50 12.50
White Cloud, 1.50 12.50
Morning Glory, 1.50 12.50
Floriana, 1.50 12.50
Joost, 1.00 8.00

CERANIUMS

Rooted Cuttings, at \$2.00 per 100, in the following varieties: A. Ricard, S. A. Nutt, Marvel, Beaute Poltevine, M. Chavelierre, Mme. Jaulin, Mrs. E. G. Hill, Mrs. Landry, Dryden, Francie Perkins Mrs. Crabbe.
TREGO, \$4.00 per 100.
FERRIS-Boston Ferns, 2 1/2 in., \$4.00 per 100; 3 in., \$6.00; 4 in., \$12.00; 5 in., \$20.00; 6 in., \$30.00. We have an especially large quantity of 2 1/2 and 3 in. sizes.
Cash or C. O. D.
W. J. & M. S. VESEY, Fort Wayne, Ind.
Mention the Florists' Exchange when writing.

Not to Be Represented
in our Special Spring Trade Issue of March 25 means that the grower who has stock to sell will be **OUT OF POCKET.**

VICTORY TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

WHITE LAWSON	\$6.00 per 100	HARRY FENN	\$2.00 per 100
ELSON FISHER	6.00 "	GOETHE, light pink	2.00 "
RS. PATTEN	6.00 "	GENEVIEVE LORD	1.50 "
NCHANTRESS	3.00 "	MANLEY	3.00 "
ROSPERITY	2.50 "	MACEO	1.50 "
HE BELLE	6.00 "	CERVERA	1.50 "
ADY BOUNTIFUL	6.00 "	LAWSON	1.50 "

5 per cent. discount for cash with order. Send your orders early.

ALEXANDER J. GUTTMAN

52 W. 29th St., New York City.
Mention the Florists' Exchange when writing.

500,000 VERBENAS 60 Varieties

THE LARGEST AND FINEST STOCK IN THE COUNTRY
Perfectly Healthy
No Rust
PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

300,000 CARNATIONS

Rooted Cuttings, Clean and Healthy
CRISIS, New Commercial Carnation, \$12.00 per 100; \$100 per 1000
Per 100 Per 1000
Mrs. Patten \$6.00 Enchantress \$3.00 \$25.00 Dorothy \$1.25
Judge Hinsdale 4.00 Mrs. Lawson 2.00 15.00 Wm. Scott \$1.25
Lady Bountiful 5.00 Adonis 2.50 20.00 Queen Louise per
Flamingo 6.00 Harry Fenn 2.00 15.00 Floriana 100
Dorothy Whitney 3.00 Gov. Roosevelt 1.50 12.00 Lorna
Golden Beauty 3.00 Mrs. Potter Palmer 1.25 10.00 Eldorado \$10.00
Buttercup 3.00 The Queen 2.50 20.00 Mrs. Joost per
Prosperity 2.00 Mrs. E. A. Nelson 1.50 12.00 Flora Hill 1000
Mrs. J. H. Manley 2.50 White Cloud 1.50 12.00 Portia 1000

60,000 GRAFTED ROSES For Forcing

THE FINEST CROWN
Orders booked now for delivery in April, May and June
LIBERTY Rose pots, \$12.00 per 100; 3 1/4 inch pots, \$18.00 per 100
BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN
Rose pots, \$10.00 per 100; 3 1/2 pots, \$15.00 per 100

J. L. DILLON Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS	\$12.00	\$100.00	LAWSON	\$2.00	\$15.00
CHICAGO WHITE	12.00	100.00	NELSON	1.50	12.50
RICHMOND GEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
ENCHANTRESS	3.00	25.00	QUEEN LOUISE	1.00	9.00
BOSTON MARKET	2.50	20.00	PERU	1.00	9.00
ADONIS	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

2 1/2 Pot Plants

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	CHATENAY	\$4.00	\$30.00
ROSALIND ORR ENGLISH	25.00	200.00	SUNRISE	4.00	30.00
LA DETROIT	6.00	50.00	KAISERIN	4.00	30.00
LIBERTY	5.00	45.00	BRIDESMAID	3.00	25.00
PERLE VON GODESBERG	5.00	40.00	BRIDE	3.00	25.00
UNCLE JOHN	4.00	35.00	IVORY	3.00	25.00
			PERLE	3.00	25.00

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

PETER REINBERG, 51 Wabash Ave., Chicago

Telephone, 2846 Central
Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen, Seedsmen and the Trade in general

Exclusively a Trade Paper.

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One-half inch, 75c.; ¾ inch, \$1.00; 1 inch, \$1.25. Special positions extra. Send for Rate Card, showing discount of 10c., 15c., 25c. or 35c. per inch on continuous advertising. For rates on Wants, etc., see column for Classified Advertisements.

Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

The Week's News in Brief.

The American Peony Society meet in Chicago in June next.

Farquhar Macrae, a prominent Providence (R. I.) florist, is dead. He was 62 years of age.

The efficacy of the apprenticeship system is being discussed by English horticultural papers.

Interested parties should read Burnet Landreth's article on Pole Lima beans in Seed Trade Report this week.

Jesse E. Northrup, the Minneapolis seedsman, has gone to a hospital to undergo an operation for appendicitis.

The Washington (D. C.) Florists' Club will hold a carnation show, Tuesday evening, March 7. Exhibits from outside growers and dealers are solicited.

P. T. Huddart, a prominent florist of Salt Lake City, Utah, died suddenly of heart failure, on Monday afternoon, February 20. He was 41 years of age.

The American Rose Society's show at Boston, March 23-26 next, promises to be a most interesting one. See Secretary Stewart's remarks anent shipments in this issue.

A bill has been introduced into the Illinois State Legislature asking for an appropriation of \$30,000 for two years' experimental work with plants under glass and ornamental stock by the University of Illinois.

A Denver (Col.) firm of dry goods merchants has offered \$1,000 as prizes to be given to the owners of vacant lots who do the most to improve their property. Seed dealers and florists will be asked to take a hand in the work.

THE MARCH NUMBER of Country Life in America is the "Gardening Manual" of this beautiful publication, and is an exceedingly attractive issue. One of the most valuable articles contained in this number is that on "Hardy Roses for the Garden," by Dr. Robert Huey, of Philadelphia. The illustrations are superb and numerous.

THE GREEN CARNATION.—Nearly two hundred years ago a London fruit and flower grower, named Richard Bradley, wrote a treatise upon field husbandry and garden culture, and in it he tells of a green carnation which "a certayn fryar" produced by grafting a carnation upon a fennel stalk. The flowers were green for several years, then Nature overcame decad. nt art.—Old Time Gardens.

THE KENTUCKY SOCIETY OF FLORISTS extends a most cordial invitation to all florists who can possibly do so to attend the next meeting, which will be held at the store of Nanz & Neuner, Louisville, Ky., Tuesday evening, March 7. We shall have an excellent display of roses and carnations. A. R. B.

Apprenticeship.

The apprenticeship system, in its relation to the profession of horticulture in this country, has often been discussed and as often considered as un-American, and not in accord with the tastes of the American youth.

On the other hand, in England and other European countries, apprenticeship to the gardening profession has been, from time immemorial, a sine qua non to success. It seems, however, that among the English gardening craft, views on this matter are undergoing a change; for we read in a recent issue of The Gardening World, the following from one of that periodical's contributors:

Is it advisable for the youth who desires to follow the profession of horticulture to serve a term of apprenticeship? In other words, has the lad who is apprenticed for a specified term in a good establishment (private or trade) any substantial advantage over the lad who enters a situation merely as a "lad" to make himself useful, pick up what knowledge he can, and improve his position as he is able? This is a question worthy of discussion, for among the readers of this paper there are doubtless many parents whose sons will in course of time enter the field of horticulture in search of a livelihood, and who, desiring to give the lads the best possible start in their career, will have to decide whether or not apprenticeship is desirable or necessary. My own reply is in the negative, nor even do I concede that apprenticeship is conducive to future success. Among the many men and youths I have worked beside in various parts of the country, I cannot call to mind one who, having served apprenticeship, has made a better or more successful gardener than numbers who had started as crotch-boys and pot-washers to work their own way from bottom to top.

On the other hand, I have known several who at the end of their term have advanced but little in knowledge or ability. Even those who make the best of their time find their apprenticeship of but little advantage when they have to turn out and work in strange places.

Too often the apprentice considers he has a right of exemption from all menial and laborious tasks and must only be put to the lighter and pleasant work, consequently he shuns much that every gardener should undergo, if only that he may become qualified to superintend the work of others later on. I do not know whether the newly formed British Gardeners' Association gives preference to those candidates for membership who produce indentures of apprenticeship, but I sincerely trust they do not look upon such indentures as necessary, for thereby many who are really worthy would be debarred the advantages the society should be able to afford to all qualified gardeners, and, to my mind, membership in that society should be of far greater import and advantage to a gardener than the possession of apprenticeship indentures.

Carnation Mrs. Ida McKinley.

Editor Florists' Exchange:

This is a sport from the well-known Enchantress, found in our establishment at Canton, Ohio. The growth, size of flower, and freedom of blooming are equal to those of its parent. The distinction from the parent is in the color and a strong clove fragrance, which is claimed to be a strong point in its favor. The flower is of a delicate pink, a shade lighter than Mrs. Frances Joost. The bases of petals are dark, blending to a lighter pink toward the tips when fully expanded. We have taken the liberty of naming this carnation Mrs. Ida McKinley, for the widow of our late President. The flower has been shown to and admired by her, it being her favorite color.

BROWN FLORAL CO.

Register

your new plants. As soon as you have ascertained that a seedling has the requisite merit to entitle it to a permanent existence and have given it a name, register name and description with the secretary of the national society. The record will then be published and your plant will be protected in its right to the exclusive use of the name you have bestowed on it. For registration blanks and all information write to the secretary.

WM. J. STEWART,
11 Hamilton Place, Boston.

PROFESSOR A. J. PIETERS, of the Department of Agriculture, in charge of plant and seed distribution, was a caller at the office of the Florists' Exchange on Friday of last week. Mr. Pieters was in search of information regarding the extent of the lily of the valley importations. The Government may make some experiments in this country, looking to the ascertaining of points in the United States where the lily may be profitably raised commercially. The professor states that a special agent of the department has been dispatched to China to collect new and rare economic plants and ornamentals in Manchuria. A walnut is known to exist in that section which it is believed can be grown successfully in New England. The Government is particularly desirous of assisting dealers in ornamental tree and shrub stock, and Mr. Pieters will welcome any suggestions toward that end. It is proposed to plant a collection of gladioli, showing the different types together, on the department's grounds at Washington, where the flowers can be seen by the visiting delegates to the forthcoming S. A. F. O. H. convention in August next.

George E. Levings, of Paris, Ill., died at his home on February 16, after an eight days' illness with pneumonia. He was a native of Lancaster, N. H., and was 70 years of age. Mr. Levings was a director of the Edgar County National Bank, a trustee in the First M. E. Church and one of the wealthiest and most influential citizens of Paris. He founded the Levings Brothers' Seed Company and established the gas works there. He leaves a widow and five children.

Parcels Post to Great Britain.

A parcel-post convention having been concluded between the United States and the United Kingdom of Great Britain and Ireland, to take effect April 1, 1905, parcel-post packages for destinations in Great Britain and Ireland will be admitted on and after that date to the mails for Great Britain and Ireland made up in and dispatched from this country.

"Parcels" exchanged between the United States and the United Kingdom must not exceed \$50 in value, weigh more than four (4) pounds six (6) ounces (or 1 kilogram), nor measure more than three (3) feet six (6) inches in length, and six (6) feet in length and girth combined.

Parcels which do not conform to these conditions, or which contain "prohibited" articles will be treated according to the customs regulations of the country of destination.

Postage must be prepaid in full at the following rates, viz.:

In the United States, on parcels for Great Britain and Ireland, 12 cents for each pound or fraction of a pound; and, in Great Britain and Ireland, on parcels for the United States, two shillings for each parcel, whatever its weight.

A delivery charge not exceeding 5 cents in the United States or 2½ pence in the United Kingdom may be collected of the addressee of each parcel.

Except as above noted, and that no provision has been made for registration, the parcels-post regulations on pages 1101-1105 of the United States Official Postal Guide for January, 1905, apply to "parcels" for the United Kingdom.

Parcel-post mails for Great Britain will be made up at the postoffices of New York, Boston and Philadelphia.

OUR READERS' VIEWS

Rock Roses.

Editor Florists' Exchange:

With reference to Mr. Joseph Meehan's notes on the above in last week's issue, my experience with *Cistus laudaniferus* and *laurifolius*, as grown in England leads me to say that the former is by no means considered the hardier of the two. As a matter of fact it is only in the more favored parts of England, such as the south and southwest, and some mild portions of Scotland, that it can be grown with anything like success, the severe weather that visits other parts of the country making it an uncertain subject to plant. *C. laurifolius*, however, has proved itself to be more strongly constituted, consequently is more often seen in good form throughout the country.

It is unfortunate that the *Cistus* stand so near the dividing line of hardy and tender plants, as this beautiful class of plants would be a good addition to our dwarf growing shrubs. EDWIN MATTHEWS.

Snails—A Remedy.

Editor Florists' Exchange:

I am constantly seeing in your columns inquiries for some way of getting rid of the common garden snail. In fact, I asked for help myself. I have had so much of help and inspiration from you on other subjects that it will be a pleasure to give my experience upon the one subject where the ideas given failed me.

A large frame of pansies was in its prime for cutting purposes, but when I went to them one morning I found that nearly every flower had a large hole eaten in one or more of the petals; they were absolutely ruined. Lime, or ashes, were simply out of the question, as the dust upon the flowers rendered them quite unfit for the market as did the snails. Picking the snails may be a sure cure, but it would require a night watchman. The pest goes too far underground by day to be easily found. I had on hand a little "Bug Death," and, having found that it was death to the snail, I proceeded to experiment, to learn if it were also death to the plant. The plants tested continued to grow and thrive, so my question was solved and all the rest plain sailing. A solution was made, using one heaping mixing spoonful of the "Bug Death" to one gallon of water. The plants were watered as generously as when using clear water. For a week not a flower was eaten. Then seeing an occasional one, the solution was again applied, and that ended the trouble for the entire season.

I see no reason why the remedy might not be just as effective in the case of other underground workers.

S. E. BOYDEN.

Ferdinand Mangold—An Appreciation.

Editor Florists' Exchange:

'Neath two splendid white oaks, on a snow-covered eminence, commanding a magnificent view of the lordly Hudson, and in the beautiful and historic cemetery of Sleepy Hollow, there was laid to rest on Tuesday of last week, one more of the too fastly diminishing "Old Guard," the builders and the pillars of modern American horticulture. Ferdinand Mangold was one of the oldest and most respected private gardeners in America, and many will regret his passing away. 'Tis true, his was not the spasmodic

attering, commercial type of endeavor or enthusiasm, it his love of all pertaining to horticulture was the ready light that guided an army of young men on the way to that success which to-day they command in many parts of the country. He was careful in the selection of friend and plant, and steadfast in his affection for both. Through his friendship for Mr. James Dean, he gave the World's Fair of 1893 its largest and most interesting plants, for which he was awarded the highest to be given; and we ourselves have never failed to obtain his contribution to the any shows of years ago.

In the grand collection of plants he gathered together for the Gould family are numerous gems—children of his own deep interest, which, if offered to commerce, would make fame and fortune. But he shunned publicity; there was nothing attached to what he grew but love. For almost half a century he lived in and helped beautify that loveliest of spots—Irvington to Tarrytown—and the large number of people that attended the funeral services at the church at Irvington, and followed the remains to the grave at Tarrytown but told part of the story of his many deeds of kindness. The Tarrytown Horticultural Society was largely represented. Miss Helen Gould (who sent a large wreath of brown galax and lilyas) and many others from distances, attended.

J. IVERA DONLAN.

The Boston Flower Show.

Editor Florists' Exchange:

I was very much interested, as I have no doubt were more of your readers in this section, in the letter of your correspondent, W. N. Craig, page 237 of issue of February 25. I cannot quite understand your correspondent, however, when he says that some of my remarks fall so wide of the mark," etc. Mr. Craig knows perfectly well that those remarks, in my "introductory paragraph," which, by the way, was written when I was in the best of humor and not at all "out of sorts," were intended to help the committee. It is not necessary for your correspondent to make an excuse for the show closing so early. It is a well-known fact that the Saturday shows of the Massachusetts Horticultural Society all close at 4 o'clock, and, I believe, the show in question was no exception to the rule. I agree with Mr. Craig that it "would be a capital idea to keep this show" (and perhaps others) open until Sunday night."

I cannot change my opinion that it was unfair to the public and also to the exhibitors to keep back the awards until within an hour of closing time. I do not say that the committee kept those awards back purposely, but I do say that their methods of doing their work at the exhibitions are by no means up-to-date. That those methods are antiquated, and would be tolerated in no other first-class exhibition hall, is well-known fact.

Regarding Mr. Craig's questions about "the system of having exhibits," etc., perhaps in my notes in question I should have been a little more plain (although cannot for a moment doubt that Mr. Craig was fully aware of my meaning), and said "naming the exhibitors" instead of exhibits. Does any society, except the Massachusetts Horticultural Society, allow the exhibitors to place their names on their exhibits, open to the public and judges before the judging is done? Is it necessary for the committee to retire after the judging is done and take an hour or two, as the case may be, to write a set of cards for the awards that have been made to the different exhibits? No; Mr. Craig is as much aware as I am that the system is wrong; that a radical change is needed; that the system is "peculiar" to the committee of the Massachusetts Horticultural Society. Give us your "gum hipplaster" if nothing better can be found; but do not keep us waiting when the judges have given their opinions, especially if they are a little late in starting, and the exhibition closes at 4 o'clock.

I sincerely thank Mr. Craig for his comparison. I consider it quite an honor to be the author of a statement worthy of "Job;" and I also thank Mr. Craig for his appreciation of my efforts in trying to keep the committee up-to-date. But I prefer to have my name left off from consideration for any of the committees. I have no ax to grind in that direction; but the foregoing will perhaps help to show that some one has to get up and "git" if Boston is to have a society and exhibitions that are to be considered up-to-date, twentieth century.

JOHN W. DUNCAN.

Carolina Garden Notes.

Editor Florists' Exchange:

The Winter, which we hope is now nearly over, has been such as is seldom seen in the Sunny South. Not only has the cold been of greater intensity than usual, but it has been continuously cold, with hardly a let-up since the middle of January. What the damage has been to half-hardy plants it is yet too soon to estimate. Prunus caroliniana, which is usually in bloom at this date (February 21), is not only still dormant, but has had its foliage badly scorched, and in places exposed to the morning sun the Magnolia grandiflora shows much scorching of the foliage. And yet, strange to say, my gardenias look all right, standing on the north side of the dwelling where the morning sun has not struck them, for with all of our broad-leaved evergreens the morning sun does more damage than the particular degree of cold. But the coming of warmer weather may show that more damage has been done than is now apparent.

Here the last week in February, when early pota-

atoes should be in the ground, no outdoor gardening has been done. We have not even gotten our garden peas planted, nor the sweet peas, both of which we usually plant in January, though we prefer to plant the sweet peas in the Fall. A florist friend told me a few days ago that his sweet peas planted in the Fall are still all right, and he will be in ahead of us. In this climate sweet peas are at a decided disadvantage if not started very early in Spring or in the Fall, as the hot weather cuts the crop short. I notice that some volunteer sweet peas from seed that dropped last Summer have wintered very well, and I will let them grow for the earliest, and hereafter will always try to get the planting done in the Fall.

Our large truck growers in the eastern part of the State have been sadly delayed in getting their early crops in the ground. The frames lettuce crop, which is very largely grown under the protection of cotton cloth, has been seriously damaged, and very little has yet been shipped from this State, except by a few who have steam pipes running through their frames. Down near Wilmington a windstorm that preceded a severe cold wave, tore the cloth covers into ribbons, leaving the lettuce beds exposed to the coldest weather of the season, and, of course, serious damage resulted.

The extreme hardness of the Groff gladioli is well shown by the fact that I noticed a few days ago that the little corianders left in the ground in digging the corms last Fall, are up nearly a foot high, and do not seem to mind the cold.

Heavy rains still keep us out of the garden, though there is now no frost in the ground, and we are simply waiting for the sun to dry the soil, and are anxious to get to work. I have over fifty varieties



THE LATE FARQUHAR MACRAE

of sweet peas sent me for trial, and fear that the result will not be as good as I hoped, because of late planting. But I suppose that a month or two later we will have forgotten all about the worry of the hard Winter, and it may be that it will prove of advantage in the destruction of some insect pests.

In speaking of broad-leaved evergreens I should have mentioned that a number of varieties of the European laurocerasus have not lost a leaf; the evergreen eleagnus is all right, as well as the golden-leaved variety. Osmanthus fragrans is badly scorched and will lose some shoots, while Chinese azaleas are entirely unharmed, apparently. The Amoor River privet, and a broader-leaved one which we have been calling japonicum, but which Mr. Meehan says is lucidum, are still green, while the California privet has about lost all its leaves. Lucidum is as evergreen as a holly, and judging from what it has endured this Winter, I would suppose that it would stand much further North. At any rate, it is worth testing there. Our commercial florists here have had a very good season and are not complaining.

W. F. MASSEY.
N. C. Experiment Station.

The Ideal Advertising Man.

I believe that the men who are most valuable to the advertising business are those who work without the dependence of good fellowship and conviviality, and those who have studied general trade conditions and merchandising thoroughly, and who simply convince their prospective customers with good sound logical arguments. I believe that friendship should be a result of good business dealing, rather than business dealing a result of friendship. Combine this idea with earnest and persistent work, and you have my impression of the real mission of an advertising man.

—Richard Wood, of the Metropolitan.



Peter T. Huddart.

Peter T. Huddart, manager of the Huddart Floral Company, Salt Lake City, Utah, died suddenly on Monday afternoon, February 20. Heart failure was the cause of death.

Mr. Huddart was born in England in 1864. His father was a florist, and from his youth the deceased worked in greenhouses. He came to America while a young man and worked in New York City for two or three years in the florist business. Later his family moved to Denver, where his brother, John Huddart, an architect, and a sister are still living. He was engaged there in the florist business. About nine years ago he moved to Salt Lake City and went into the business there. He married about six years ago, and leaves a widow and one daughter, Isabel, who is four years of age. Last year he sold out the retail department of his business to L. M. Law, and since that time had been operating the greenhouses. He was well known in Salt Lake City, and was a member of the Commercial Club, Elks, Eagles and A. O. U. W.

Wm. E. McAllister.

William Edward McAllister died at Passaic, N. J., Tuesday, February 21, after a long and painful illness from cancer of the stomach. He was born in Jersey City, 1874, but since his fourth year had his home in Passaic with his parents. After having acquainted himself with the culture of roses at the Young establishment, Clifton, N. J., he formed the company bearing his name and started the retail business on Main avenue, Passaic. With his death, a most brilliant career has been cut off. His honest and square dealing with growers and wholesalers made him respected by all and brought him many friends in the trade. He was probably the most popular young man in his home city among all classes, not alone for his bravery as fireman in the volunteer fire department, but also through his big heart and kindness for the poor and unfortunate. Deceased was a member of the First Reformed Church. Sincere, heartfelt sympathy is extended to his parents and dear ones in their great sorrow and bereavement.

The business will be continued as heretofore under the able management of B. Machelwin, a near and warm friend of deceased.

F. H.

Farquhar Macrae.

Farquhar Macrae died at his home, 1133 Smith street, Providence, R. I., on Tuesday, February 21. He was in his 62d year. Death was unexpected, Mr. Macrae having been sick for two days only. Peritonitis was the cause.

Farquhar Macrae was born in Rosshire, Scotland, in 1843. He served his time in Conon Gardens, on the estate of Sir Kenneth McKenzie, where he worked for four years, afterward following his profession on several prominent places in England and Scotland before coming to this country. He sailed for the United States about 35 years ago, going to Providence on July 4, 1870. The first nine or ten years of his career there were spent as expert grape grower on Willard Whitcomb's place. The products of the Whitcomb place, raised by his hands, became famous in the New York market, where they were in demand for several years, and commanded the highest prices.

About the year 1880 he embarked in the wholesale florist business, locating on the old G. W. Chapin place at Fruit Hill. He made a success of it from the start and in a few years he purchased a piece of land on Smith street. Here he built a modern greenhouse plant, growing carnations, roses, chrysanthemums and violets for the wholesale market of Providence and vicinity. The business succeeded to such an extent that he soon outgrew his plant, and, disposing of the same to his brother, John A. Macrae, he purchased a tract of 20 acres in the immediate vicinity, where he established the plant which he conducted up to the time of his death. It is estimated that the latter includes 100,000 square feet of glass.

Mr. Macrae took a great interest in the Society of American Florists, holding the office of vice-president in that organization, and being mainly instrumental in securing the annual convention for Providence in 1897. He took a prominent part in organizing the Rhode Island Florists' and Gardeners' Club, in which he held office at various times, being its president when the S. A. F. met in his home city.

Mr. Macrae was one of the prominent members of the Rhode Island Horticultural Society, and his exhibits at the annual displays under the auspices of this organization were a feature. He was especially successful in the cultivation of chrysanthemums. He was a typical Scot, having all the meritorious traits of that nationality; few, if any, of its failings, and was held in high esteem by all who knew him.

Besides his brother and a sister, Mr. Macrae leaves a widow and eight children—three sons, Alexander, Walter and Arthur, and five daughters. The funeral was held Friday, February 24; interment in Swan Point Cemetery.

Dahlia Kaiserin Augusta, Victoria.

I have tried this dahlia for two years and am convinced that it is the best white dahlia in existence. I grow mostly white dahlias for cut flowers, and, after having tried all the so-called best white sorts, have not found any to equal Kaiserin Augusta Victoria. It is of the decorative type; flowers of the purest white; size, 4 to 5 inches diameter; double. The plant grows 3 to 3½ feet high, is of sturdy and compact habit, and does not require staking. The profusion of blooms is remarkable, exceeding any other sort in the field. The flowers can be cut with stems 12 to 18 inches long. The plants grown from cuttings will make the best plants and produce the largest, finest and longest stemmed flowers.

Kaiserin Augusta Victoria was awarded special premium by the American Institute, New York, at its dahlia exhibition in October, 1904. The awards committee of the New York Florists' Club, who visited my place and saw the plants growing, reported to the club, October 10, 1904, as follows: "It is unquestionably a valuable addition to the race, and where white Summer flowers are wanted will prove of great value." Brooklyn, N. Y. A. L. MILLER.

Cannas With White Flowers.

A writer in the Revue Horticole, in speaking of the efforts of hybridists to obtain a canna with pure white flowers, mentions the following sorts that have been offered in the trade as belonging to that section: Alba rosea grandiflora, white, dull rose; Ideal, rose white; Candeur, same color; Rosalba, white, lightly spotted rose; Apollon, straw, passing to pure white; Mlle. Fray, cream white; Alsace, greenish white; Seduisant, white, lightly spotted rose.

More recent varieties include: Mlle. Meriem Lombard, almost pure white; Albatros, straw, passing to white; Mme. H. Coufourier, white spotted rose; Poëte, straw, passing to white; Jeanne d'Arc, straw, passing to pure white; Miss Annyker, pretty cream, almost pure white; Mlle. Ant. Cresp, almost pure white; Flocon Neigeux, greenish white, passing to pure white; Boule de Neige, straw, passing to white; Frau Maria Nagel, almost pure white; Valentine Delalande, pure white, with light rose center; Le Lys, a dwarf plant, flower white, lightly striped with rose.

Says the same writer: "We hope that some day a truly pure white-flowered canna will be obtained with beautiful green foliage, or, what is better, purple black foliage. From a decorative point of view the latter would be ideal."

Hardy Perennial Seedlings.

There is no more interesting work than the growing of hardy perennials from seed. To the man who handles a great number of different kinds it becomes very absorbing. To the untrained eye, with seedlings in the cotyledonous state, one kind is very much like another, yet to the expert they are as easy to distinguish as the plants when in a more advanced stage.

Many peculiarities may be observed during the germination of different kinds of seed. *Iberis sempervirens* gives off a very disagreeable odor, not unlike that of boiled cabbage in an intensified form, which gradually disappears as the seedlings appear above the ground. *Pentstemon Digitalis*, along with some of the other species, has a peculiar and distinctive odor which is very pronounced at the time of germination. It is no doubt caused by a chemical change taking place at that time similar to that which takes place when barley is malted, and leads to the thought, how many unknown products are there still to be discovered that may be of value?

With delphinium seed, there is always a mold that makes its appearance during germination on the top of the soil before the seedlings push through the ground. At first this used to cause me annoyance, as it was thought to be a fungus in the soil, but from close observation and many experiments, it is proved to be always present with the germination of the seed, and is not necessarily detrimental.

The majority of seedlings rapidly push up the seed leaves, or cotyledons, clear of the soil and spread them out horizontally, while others remain very close, barely forming any stem. The *galliardia* is a good illustration of this. The seedlings seem to have barely enough strength to push through the soil. Perhaps the hot, dry winds of the western plains, where they are native, have taught them not to be too previous. There is some natural cause for every variation, even though we pass the matter by, thinking it their nature so to be.

The actual pricking out of the various kinds of seedlings is a very simple matter, but at the same time it pays to do it right. The boxes should always have sufficient crevices to insure good drainage. If tightly made, when the wood becomes wet it swells and will often make the boxes watertight. If such is the case, holes should be bored in the bottom. The soil should be fairly dry and have a good proportion of sand mixed with it. If about one inch of well rotted manure, such as that from a spent mushroom bed, be spread over the bottom of the box, it will help maintain an even moisture in the soil and prevent the fine soil from washing through the crevices, besides being good for the plants.

In filling the boxes, press the soil down evenly round the sides so that an even surface will be maintained after it has been watered. Pricking out is rather a tedious job, especially if the seedlings are very small; but with practice a boy soon becomes expert. Keep the plants in rows, even if only planting an inch apart, as it may be necessary to surface the soil if it should become baked or green, and it will make the weeding of them much easier. Weeds

are never too small to pull out; if left too long, this cannot be done without uprooting the plants.

ERNEST HEMMING.

A Plea for the Hardy Border.

By Herbert Greensmith.

(All questions relating to Mr. Greensmith's articles in these columns should be addressed to this office, when they shall have immediate attention.)

It would scarcely seem necessary to call attention at this early season of the year to hardy perennials; they are so beautifully tucked away, in many cases, deep under the snow, needing no thought or care of ours; but the time of the singing of birds is at hand, and the glorious long looked for Spring resurrection is rapidly drawing nigh. Are we ready for it? What about that show or sample bed of hardy plants which we can invite our prospective customers to look at? There is much more satisfaction in buying when one can see what he is getting than in purchasing from a catalogue of bewildering names. Have we decided to plant that unsightly corner, which is perfect in its adaptability to many hardy plants, and to make it a thing of beauty by a judicious embellishment with these ever-increasing popular plants? There is a



WHITE DAHLIA KAISERIN AUGUSTA VICTORIA
Grower A. L. Miller, Brooklyn, N. Y.

great campaign of educational work to be done along the line of growing herbaceous plants; who is to do it? The opportunity lies at the door of every progressive American florist. He can and must be the instructor.

Many wide-awake florists are already entering the field, and others are in search of information, inquiring what is the best and most feasible way to get at it. I would emphasize the suggestion made above—have a bed or a corner of some kind neatly and decently laid out, containing, if nothing more, a few of the choicest kinds: *Rudbeckia Golden Glow*, *Helianthus multiflorus*, always useful, but well known. Day lilies and the more common kinds I would exclude if room is at a premium, because they are well known, and as occasion requires, are cheaply and readily secured. But where space is available, plant them by all means, as they are among the most salable stock.

Isolated forms of many herbaceous plants make but a poor impression; therefore, bold grouping is necessary to be effective. *Lychnis stokesias*, *arabis*, *candytufts*, isolated plants of the dwarf *phloxes* and others of similar nature and habits are never so effective or impressive as when massed. Of course, the taller and more robust growers, such as *boltonias*, *heleniums*, some forms of *asters*, *rudbeckias*, *cheirones*, etc., are all right in fair sized clumps; but even some of these show up to better advantage and produce both larger heads of bloom and larger individual flowers by yearly division. Both *asters* and *heleniums* profit by it, and I am persuaded I get more satisfaction out of a single crown of *Helenium autumnale* superbum than I would out of a large clump, a foot across. With some varieties of *helenium*, the reverse is the case, as, for instance, *H. Bolanderi* and *H. pumilum*; both are apt to be dwarfer and not so floriferous if closely divided every year, and, in many cases, if allowed to stay over two seasons in one place they are likely to be entirely swept away by fungus.

Speaking of *heleniums*, which we are very liable to associate with Fall flowers, I should like to call particular attention to *H. Hoopesii*. I think this is one of the prettiest and deepest colored sorts that grow, and, quite contrary to its congeners, it blooms in early June, and in good soil has flowers two to three

inches across, of a lovely orange-yellow shade. Very often it will produce a second crop of bloom toward Fall. The great beauty of this plant is that it can be so easily raised from seed, which, if sown inside in January or February, will produce some bloom the first year in very late Fall. But the plant will not be at its best till its second season. It grows about two feet high, and being of such a bushy habit, can be planted close. It is also very useful for cutting, and this is a factor which should not be overlooked, especially where room is limited, for a double purpose is thus gained.

One great obstacle to overcome is, how best to serve this double purpose, for so many hardy plants are not good subjects for cut flowers, and, again, so many people believe that all or nearly all of this class of plants bloom in a bunch toward the Autumn. A greater mistake never was made, for they are the first flowers to come into bloom, not in early Spring, but even in Winter. In favored locations now in our snow-bound North, the *Eranthis hyemalis*, or Winter aconite, is in flower; as is also *Petasites fragrans* in the western part of New York. This plant used to bloom with me in February, but the flowers got damaged by heavy frosts. With the protection of a frame, however, this difficulty could be overcome. The chief beauty of the plant lies in its sweet, delicious, hellebore-like fragrance, which is very pronounced, and lasts well long after the flower is cut.

I am not quite sure but a great many of us would be delightfully surprised if we were to go out and dig down under the snow and leaves even now, and there find signs of life already at hand. We would see that the plants are getting ready for their Spring work. Where the ground is not frozen too hard, they are actually making root and pushing up their leaves, buds and flowers. Last year the Japanese coltsfoot (*Petasites japonica gigantea*) actually worked up its flower heads through the frozen ground and ice, and flowered early in March. On the 26th of February, two years ago, the Japanese Joss flower, *Adonis davurica*, without any protection, came into bloom while the ground was still hard frozen. Last Winter being more severe, it opened its blooms on the 11th of March, with a slight covering of snow still on the frozen ground. I have seen *Symplocarpus fetida*, common in our meadows and swamps, do the same thing. Of course, the flowers of these are not of much real value to the average florist, but these remarks only go to show that hardy plants, by judicious selection, may be had in bloom every month in the year.

To say just what should or should not be planted in a sample bed or border would depend very much upon the space and situation. The border might be alongside a fence, a wall, or building; then, of course, select tall-growing, showy, useful plants for the back of the border, and the more dwarf ones for the front and intermediary rows. Neither would the writer, even in a limited space, confine himself strictly to those varieties exclusively useful for cutting, as, for instance, the early flowering *phloxes* or moss pinks, the *arabises*, the *cerastiums*, *armerias*, dwarf *lychnis*, *epimediums* and the beautiful little *houstonias*, always quaint and much admired, even prettier than a forget-me-not. The early flowering *anemones*, the *Alpine asters*, various *iberis* (*candytufts*), *Omphalodes verna*, some of the dwarf *veronicas*, etc., are all very useful, showy, neat and attractive, and among the most desirable of our early Spring flowering plants. All are suitable for the border, for edging of beds or planting on the rockery.

The open border could be somewhat varied in planting, the subjects being studied as to height, which is generally given in the various catalogues, and period of blooming, and so placed or grouped in the bed that it would have the appearance of always having something in flower. The taller and more robust forms could be placed in or toward the center, but some varieties, such as *delphiniums*, *salvias*, *gypsophillas*, *valerians*, *lychnis* and other plants of a similar nature, which only have the appearance of being tall when in bloom, could be placed with good effect almost on the outer edge. As soon as their flowers commence to fall cut down the plants, and you will again be rewarded with a later crop of blooms. This would also break up any set or formal method; but the arrangement of planting will work itself out only by years of patient toil. While the plants are in bloom, their habits and positions can be best studied and their proper places determined by the aesthetic taste of the grower. No hard and fast lines can thus be set, for when we think our border perfect something always crops up whereby we may again improve it by some slight changes.

Bare spots in the best arranged border will occasionally occur. They occur in nature. Have you not noticed how quickly some of our native plants respond to the first warm, genial rays of Spring? For instance, the *trilliums*, or wake robins, the delicate *American cowslip* (*Mertensia virginica*), *saxifrages*, *Dutchman's breeches* (*Dicentra cucullata*), *Anemone thalictroides*, *A. patens utahana*, the blood root (*Sanguinaria canadensis*); and where is there a more chaste or delicate Spring flower, white as the driven snow? Why is it not more seen? Many others might be enumerated, but the above will suffice to illustrate how quickly they come and how rapidly they disappear.

When their flowering period wanes, and they begin to show signs of going to rest, have a few hardy annuals coming on, in pots, or in a separate border. If in the border, have them transplanted a few times to make them stocky and give them more roots. It is a well known fact that many annuals, like trees, are apt, if not transplanted, to grow to one single root; these can then be dropped at will into the border and thus fill up any vacancy and add brightness and cheer to the otherwise vacant spots.

In conclusion, I would like to call the reader's attention to the value and utility of these plants by referring him to a short article in Henderson's Handbook of Plants, page 186, on herbaceous plants, by Wm. Robinson. The list of plants appended to this article is by no means complete, or fully representative; but it is a very good one. Many varieties have been introduced, or have become better known since that list was made out, and can be added as taste dictates from various trade catalogues.

Phlox Drummondii.

Where a selection of twelve of the most desirable hardy annuals is requested, Phlox Drummondii should always be given a prominent place therein. Few, if any, annuals can furnish more brilliant displays of coloring than are to be supplied by the many off-springs of this plant. In common with most hardy annuals, their culture is simple; nevertheless, to obtain highly satisfactory results, give them some good rich material to grow in. Successive flowerings can be had by sowing the seed indoors and transplanting the young seedlings, giving thus early results, or by sowings in the open ground, when all danger from frosts is past, for later. JOHN F. JOHNSTON.
Glen Cove, L. I.

Tales of a Traveler. Los Angeles, California.

Los Angeles is the gateway for Southern California; all roads lead to it. The city is a combination of the East and typical Southern California, and the business of the flower men in Los Angeles is to supply the Eastern element with what they want, and the tourist in California, having been thoroughly coached upon the beautiful flowers of California must buy them here even if they never invested in flowers when at home in colder climates. The florist here caters to the tourist trade, and to those who have means who make their home here in order to enjoy what the climate of Southern California affords.

A first impression of the flowers in Los Angeles is a strange one; different from San Francisco and different from any city I have seen. The range of prices and the difference in the quality of the flowers which are ever before one is very great. Side by side in all the stores are the carnations which are so typical of California, and, to tell the truth, they look hard. They look the more hard because of the season of the year, for the rains have come and the typical carnation of California is grown in the open with no protection. And when it does rain in Southern California, it rains. Nature is not moderate at all about this matter, and the streets become rivers in a short space of time after the downpour commences. On the carnation in the field this has a bad effect, and the market is full of poor flowers as a consequence, which sell for "two bits" a dozen. They hardly know the meaning of our Eastern "25 cents," but they delight in gathering in the Eastern "quarters" just the same. The violet, which is so abundant in San Francisco, appears here, but not in such numbers, and still the same prices buy violets and seldom over 20 cents per hundred is asked for them. On the streets callas, at six for 10 cents, are plentiful, for they, too, grow here if allowed to. The roses so common on the streets are nearly all out-of-door stock, and they are, as a rule, poor in quality and cheap in proportion.

If one takes a stroll about the city to look over the stores and to see what the flower vendors on the corners are selling to the passerby, he will find a great variety of stock and more variation than one would suppose it possible to have. In the stores the variation is noticeable, but it is not as marked, for here the stock is partially grown under glass, and better quality prevails. Some things come cheap, but, as a rule, stock is the opposite of cheap. Out-of-door daffodils are now coming in plentifully, and centaureas are sharing the windows with them. These are grown in two colors, purple and white, and sell for 25 cents per dozen. Sweet peas are just being brought in, and stocks also; both of these fill up considerable space. The native huckleberry, with its abundance of foliage, is used largely for greens, and this, as it is in San Francisco, is found everywhere.

In roses, the most interesting, to me, is the small pink Cecil Brunner which is just taking its place in the stores, and which is very useful in making up and very pretty in bunches. Some good American Beauty are seen, but these are grown under glass; and, then, any quantity of other roses, which grow out-of-doors, and which look the worse for mildew and stormy weather. Some very good Liberty I saw that were grown in a lath house. These blooms were small, and yet the color was superb; the foliage was clean and free from mildew. The tendency is, however, toward the indoor stock, and side by side with the outdoor flowers we find roses that are really good. Grown by eastern growers, however, and grown as roses are grown in the East, they are blooms which compare favorably with those seen in the East. The people are beginning to realize the superiority of this class of stock and are learning to pay the difference.

If one wanders far enough he may meet one of the so-called "tin-can" nurseries for which California is famous, and this will, indeed, be a treat. If you want to see things done in the rough, you must visit California, for here they know how to grow stock in tin cans, and will argue it out, from the economical basis, that a can is a saving proposition; for, as one of the "tin-can" magnates told me, "a can costs but a cent, and a pot costs three, and, therefore, I save two cents

on that plant which will only bring \$2, and they'll buy it just as quickly in a can as in a pot." So it goes; and it all depends on how you look at it. In these "can" establishments, with roof of lath and sunshine (when it doesn't rain), you will find everything that will live in a tin can, and they tell me that the can prevents evaporation a great deal better than the clay pot, which is for them a thing of the future.

The bougainvilleas and salvia in bloom about the houses in the residential sections make a very pretty picture, and combined with the giant palms and the beds of callas in full flower, render the homes very attractive.

W. R. PIERSON.

(To be continued.)

AMONG THE GROWERS.

F. R. Pierson Co., Tarrytown, N. Y.

What a number of good things (horticultural) have been sent out from this little, but wealthy town that overlooks the Hudson River! It is from here that many of the finest commercial novelties in chrysanthemums, cannas, carnations and ferns have been distributed, and the name of F. R. Pierson Company has come to be recognized as a guarantee of the sterling merit of any plant or flower they take hold of and introduce to the trade. Of late, Mr. Pierson has been going largely into carnations, and he has been most fortunate in securing varieties of the Lawson family. The White Lawson that he introduced

The latest addition to Mr. Pierson's novelties is the variety Winsor. This is one that has only been secured very recently, and will not be introduced to the trade until 1907. It is a beautiful light pink sort, well above the average size, and will no doubt make a name for itself at the exhibitions between now and the time of its dissemination.

In the cultivation of carnations Mr. Pierson has decided opinions of his own, and there are some features at his establishment which are worth going to see. We refer particularly to his method of planting. A great deal has been said of late about the style of bench best suited to the culture of carnations; there has also been much talk on sterilization of soil and other expensive modes of preparing beds for indoor cultivation. Mr. Pierson is growing his carnations in a house 300 feet long and 60 feet wide; they are planted directly on the floor in beds about 3 feet wide, with very narrow pathways, and simply a board, about 5 inches in width, to mark off these pathways. No special efforts have been directed toward the making of these beds, the plants being set in the ground, just the same as one would do if planting in the garden outdoors. It will be seen that by this method there is a great saving in material and labor, as no benches have been built, and it will also be plainly apparent to anybody who will visit the greenhouse that the carnations are doing just as well as those grown on benches. There is not a sign of any disease, red spider, or other affliction. The plants are a mass of flowers and buds, and are just as easily cared for, so far as watering and syringing go. The method in general is a pronounced success from every standpoint. The plants in this house were



PHLOX DRUMMONDII, PINK

Photo by John F. Johnston

last year has become a universal favorite, from its purity of color, its freedom of flowering both early and late, and continuously, and, above all, by its easy culture; it being strictly a variety that will grow well anywhere. His latest addition to this Lawson strain is the Variegated Lawson, of the fabulous price supposed to have been paid for which the daily press has said so much about. Whatever figure changed hands, of course, only Mr. Pierson and the man who sold the carnation knows; but there is no doubt much truth in Mr. Pierson's remark, that he paid as near to \$20,000 for the variety as did Mr. Thos. W. Lawson his \$30,000 for Mrs. Thos. W. Lawson. That the Variegated Lawson is a wonder all will admit who visit the greenhouses and see how the plants are doing at this time. The productiveness of the parent plant is well known to every carnation grower in the country, and we have no hesitancy in saying that this variegated sport is just as free in every particular, with stems probably longer than the parent, and the flowers a trifle larger. It is perfectly free from disease of any description, and whoever can grow the Mrs. Thos. W. Lawson is sure to have success with this variegated variety.

The crimson variety, Daheim, is making a splendid record; in fact, it is proving one of the most floriferous carnations that was ever introduced, and while it is but a small percentage of crimson that a carnation grower needs in his collection, Daheim, being so easy to grow, and so floriferous, is sure to fill the bill. It is an exceedingly fragrant variety, and it does not have that too common tendency of turning black after it has been cut a few hours, but is an excellent keeper.

not put in until rather late in the season and were very small stock plants at that, and it was the opinion of several experts who visited the house about that time that the plants would be a total failure and produce no flowers, or cuttings either, to any extent. One can thus see that an elaborate carnation bench is not a great necessity after all; of course, the height and width of the house, in this instance, may have something to do with the success of this method. The house is probably 20 feet high at the ridge, and admits of plenty of ventilation at all times.

During our visit on Monday afternoon last, stock was being lifted from the cutting bench preparatory to being shipped, as the orders for some of these novelties are being filled quite extensively at this time. The plants are rooted in common bank sand, and we can safely say that those who receive cuttings, such as we saw lifted from the bench, will have no cause of complaint about them not being rooted; they were simply a mass of fibrous roots attached to the base of each cutting, and these, when packed with moss around them, would safely travel any distance and arrive at their journey's end in perfect shape.

In the houses devoted to miscellaneous plants there is an ample stock of choice flowering plants coming on for Easter. The Baby Rambler rose is grown extensively, as are azaleas and lilies. There are also several houses filled with young stock of geraniums and chrysanthemums.

As is well known, the immense American Beauty growing establishment is also located at Scarborough, and we had the opportunity of going through the

range of glass put up last Summer, which consists of three houses, each 28 feet wide by 300 feet long, built on the ridge and turrell system, and all open in the inside. The construction is of iron, the work of the Pierson-Sefton Company, and is both light and durable. The gutters between the houses are but ten inches wide, and there is no shadow. The same system in planting has been employed here as is done with the carnations. The roses are planted on the floor, with small narrow boards to define the edges of the beds. That this method has been a success is plainly evident at this time. The plants have borne magnificently all through the season, and while they are a little off crop just now, there is abundance of bloom in sight, the great majority of which will be of special grade. The older range of rose houses at this place are in the best possible condition; buds are showing plentifully all through, and the foreman says that this Winter has been one of the best on record for the American Beauty crops; the plants have done well ever since planted last Summer, and at the present time the outlook for a magnificent crop of special blooms is all that could be desired.

A new departure has been made in the boiler system, and it would seem that in the saving of fuel perfection has almost been reached. The boilers have been fitted with extremely fine grates, and a blower has been installed. With the aid of this device, the culm, or slack, from the mines can be burned with perfect success. Steam can be obtained from this fire just as easily and as quickly as it can be produced from lump coal, and the cost of this culm or slack is \$1.50 per ton. Here is something that every greenhouse owner should investigate. The heating question is one of the greatest importance that we have to deal with, and any contrivance that will create a saving in fuel is worthy of the most careful consideration. So far as we are able to describe the principle above mentioned, we may say it resembles a blacksmith's forge on a large scale. A small engine is utilized to run the blast, or blower, and that, together with the fine grate, is all that is required. The fires need no more attention than is necessary for ordinary coal; and the grate is cleaned only once in 24 hours. It will pay all interested to go and see the system working, for it is convincing proof that it is not necessary to use the highest priced grade of coal for greenhouse boilers.

Robert T. McGorum, Natick, Mass.

Among the rose growers for the Boston trade, Robert T. McGorum, Natick, Mass., is one of the most successful. His establishment, which is composed of five or six modern houses, is situated only a short distance from the famous Wabash conservatories. He devotes his whole space to roses, using entirely grafted stock. Bride and Bridesmaid are the principal varieties grown. His Bridesmaid are especially fine; looking over his whole establishment it will be hard to find a more evenly matched lot of plants. And the blooms, too; talk about rigid stems! Every plant seemed to be throwing them up.

Mr. McGorum is one of those men who have been taking off a continuous crop the whole Winter, and flowers, with him, were as plentiful a month ago as they are to-day. There was one bed of Bridesmaid that commanded our special attention. The plants looked perfection, being very even throughout, with many fine buds in course of development. These were two-year-old plants, which, after having been grown one year in the beds, were lifted last May and heeled outdoors to ripen. About the middle of June they were taken and cut down to about six inches, potted into 5-inch pots, the dirt being entirely shaken off the roots, which were also severely pruned. They were planted into the bed about the middle of July, were in crop soon after, and have been doing as well as any young or second-year plants ever since. One house is filled with Souvenir du President Carnot, which are just beginning to show their first crop of buds, having been rested during the short days of Winter.

Mr. McGorum sells his whole product through Welch Bros.' market. He has been a frequent exhibitor in his class at the Boston shows, and at the coming rose exhibition it is hoped he will again carry off some laurels. The heating plant is up-to-date, two large steam boilers being placed side by side, although only one is used the most of the time. A third boiler is arranged for the working of a pump from the manure tank, and also for driving a blower with which the fire boxes are arranged. This has not been used, however, this season, as when the price of coal is normal it does not pay for the extra cost of operation.

Robert Montgomery, Natick, Mass.

Another compact Natick (Mass.) establishment is that of Robert Montgomery on Worcester street, on the Boston & Worcester Trolley Air Line, and of easy access to Boston. Mr. Montgomery built this plant about seven years ago. It is a modern establishment of some 25,000 feet of glass, and is entirely devoted to the growing of roses. Bride and Bridesmaid are the chief features of the place, although several other varieties are grown in small numbers. Grafted plants are entirely used, and a lot of young stock, recently grafted, looks very well indeed. The place all over showed a remarkable sameness among all the plants, and it was evident that both Bride and Bridesmaid are grown to perfection. Mrs. Oliver Ames is grown in the front beds and is done very well. One house is devoted to American Beauty for Spring and Summer use, and as they have just recently been started they are beginning to show remarkable growth, and give the appearance of a fine lot of large blooms in the future. J. W. DUNCAN.

CLUB AND SOCIETY DOINGS

THE AMERICAN PEONY SOCIETY will hold its next meeting in Chicago in June, 1905.

THE NEW HAVEN (CONN.) HORTICULTURAL SOCIETY held a carnation meeting on Tuesday, February 21. F. Kimberley delivered an essay on the subject of carnation culture. The society is in a flourishing condition, having now over 100 members, and more being added at every meeting.

THE WASHINGTON (D. C.) FLORISTS' CLUB will hold a meeting on Tuesday, March 7, at 516 Ninth street, N. W. There will be an exhibition of carnations which promises to be very fine. The club cordially extends an invitation to all interested in carnations to attend this meeting. Out-of-town growers who wish to send flowers will please address them to Secretary Bisset, Twin Oaks, D. C., carriage prepaid. Mr. Bisset will give his personal attention to them and see that they are accorded a good position at the meeting. They should be shipped so that they will arrive on Tuesday morning, March 7. M. C.

AMERICAN ROSE SOCIETY.—Complete schedules for the approaching rose exhibition at Horticultural Hall, Boston, have been mailed to all members of the American Rose Society, and inclosed with each schedule an entry card. All others not members of the society can have copies on application to the secretary. The number of special premiums is large, and an exhibition of unprecedented diversity and beauty is assured. M. H. Walsh's display of Rambler roses alone will be worth crossing the continent to see, and every one interested in the rose, commercially or otherwise, should take advantage of this opportunity to see a superb exhibition and meet the foremost rosarians of America. Come yourself and bring an exhibit with you.

Exhibits may be sent, prepaid, care of William Nicholson, Horticultural Hall, Boston. For the convenience of exhibitors at a distance, Messrs. Welch Bros., 15 Province street, Boston, have generously placed their refrigerators and other conveniences of their establishment at the disposal of exhibitors who may, if they so desire, ship their boxes in advance to Welch Bros.' care, giving explicit instructions by mail as to what disposition they wish made of them; whether the boxes are to be kept unopened, or whether the flowers are to be taken out and placed in jars of water until required. All instructions will be carefully complied with. WM. J. STEWART, Secretary, 11 Hamilton Place, Boston.

THE PLANT AND CUT FLOWER GROWERS' ASSOCIATION OF ST. LOUIS, MO., was duly organized on a permanent basis on February 9. Its object is to benefit in every way possible the growers of plants and cut flowers. Those who have originated this movement have already been amply repaid by the interest manifested. We are desirous of enlisting the support and co-operation of every grower in the vicinity of the St. Louis market. We are determined to use whatever revenue we may acquire in the preparation of instructive entertainment for those who attend our meetings.

We desire to have it definitely understood that the object of this association is not in conflict with the St. Louis Florists' Club. We do not intend to supplant the older organization, but believe that the growers' time can be more profitably spent in discussing matters pertaining directly to their business.

It was decided at the meeting to keep the charter list open until the first day of April. The dues are to be \$3.00 per year. We will charge an admission fee of \$2.00 to all who join. But for those who come in on the charter list before April 1 we have agreed to waive the admission fee. Thus all who will send \$3 to pay dues until December 31, 1905, will become charter members of the association. Send all remittances and applications to the secretary.

Our membership is not to be limited to owners and managers. We want the employees to come in and reap the benefit of the organization.

E. H. MICHEL, Secretary, A. S. HALSTEAD, President, 4253 Magnolia Ave.

THE NEW ORLEANS HORTICULTURAL SOCIETY held its regular meeting on February 16, President Papworth in the chair. It was decided to hold a flower show in November next, and a committee, consisting of J. A. Newsham, Paul Abele, C. Eble, E. Baker, C. W. Eichling, P. A. Chopin, II, Papworth, R. Steckler and C. R. Panter was appointed to further the matter. A committee, consisting of Paul Abele and E. Baker, submitted resolutions upon the death of Dan Newsham, which were ordered spread upon the minutes. The secretary's report showed a cash balance on hand of \$751.75. The secretary also reported having received from Allen McGregor an express money order of \$15 to be used as a prize when the gardens of the city are judged. There will be upwards of \$100 worth of plants offered in addition. The question as to what damage was done by the recent freeze and cold weather was brought up for discussion. Mr. Eichling stated that soft bedding plants were all killed. The pansies in bloom were injured, but the plants stood the cold perfectly. Two varieties of palms most used in this city suffered. The Washingtonia robusta showed more signs of the cold than the Washingtonia filifera, while the hardy palms

did not suffer at all. The damage to the plants in general brought up a discussion as to the best methods of protecting palms from the cold. It was the unanimous opinion that packing the palms with hay and the like brought excellent results when the weather was good, but if packed after a wet spell and allowed to freeze when wet, it would simply bind the heart of the plant with ice, and nine times out of ten kill the palm. One of the most important things connected with a freeze is to prevent a sudden thawing after the cold. Plants should be made to become warm gradually.

MASSACHUSETTS HORTICULTURAL SOCIETY.—Instead of a lecture at Horticultural Hall on Saturday last, there was general discussion on hardy flowers. An unusually large attendance was present; in fact, this season the course has been very successful, and every meeting so far has had a good appreciative attendance. The subject on Saturday was introduced by J. Woodward Manning, who gave a general passing list of the more common trees, shrubs, and hardy perennials that are used for ornamental purposes. He commenced with the earliest plants, such as the red maple, spice bush, Cornelian cherry and shad bush, and gave an exhaustive list for all the months of the season, ending with such late bloomers as the hardy chrysanthemums and witch hazels. Those taking part in the discussion included A. A. Hixon, secretary of the Worcester Horticultural Society; E. O. Orpet, of South Lancaster; T. D. Hatfield, of Wellesley; W. N. Craig, of North Easton; Duncan Finlayson and Kenneth Finlayson, of Brookline, and Robert Cameron, of Cambridge. Mr. Hixon, in speaking of insect pests on plants, said that a very good insecticide was plain soap and water. Mr. Orpet recommended Ivory soap, which, being made of vegetable oils, was not so injurious to plants and yet much more effective as a lice destroyer. A lively tilt took place as to the cultivation of rhododendrons. Mr. Hixon said that they would not thrive in sandy soil. On a question from Mr. Cameron as to the twelve best trees, twelve best shrubs, and twelve best herbaceous perennials to be named by Mr. Manning, that gentleman gave the following: Trees, *Virgilia lutea*, which he considered one of the most beautiful of all; Weir's cut leaf maple, American horse chestnut, River's purple beech, *Magnolia Soulangiana*, *Pyrus florihunda*, catalpa, American elm, Norway maple, pin oak, tulip tree, and the Japan varnish tree, *Kalmia latifolia*. For the twelve best shrubs he named *Prunus triloba*, *Forsythia Fortunei*, *Spiraea Van Houttei*, *Philadelphus coronarius* or *speciosissimus*, *Viburnum plicatum*, dwarf horse chestnut (*Pavia macrostachya*), *Lonicera Morrowi*, *Rosa rugosa*, *Hydrangea paniculata*, *Berberis Thunbergii*, *Deutzia gracilis*, and *Syringa rothomagensis*. For twelve hardy perennials, Mr. Manning gave *Primula officinalis*, *Veronica amethystina*, with its perfect sheets of blue flowers; lily of the valley, *Iris germanica florentina*, *Hemerocallis flava*, *delphinium phlox*, *Peonia officinalis* for red and *festiva maxima* for white, *Lupinus polyphyllus*, *Gaillardia grandiflora*, *Aster Lady Trevelyn* and *Veronica longifolia subsessilis*. Mr. Manning said as there were some three thousand hardy plants catalogued by nurserymen, it was a hard matter to pick out a small number, and in such as he had selected he had tried to give a list of succession of bloom and plants that would generally do well in almost any location. J. W. D.

HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY.—The annual carnation exhibition of this organization took place February 21. There was a very fine exhibit, and a large attendance. In the competitive classes awards were made as follows: Twenty-five Lawson shade of pink—F. Boulon & Son, first with Mrs. Lawson; Walter Shaw certificate for same variety. Twenty-five Enchantress or light pink—Robert T. Hillock, first, with Enchantress; F. Boulon & Son, second, with same variety; John N. May, third, with Phyllis. Twenty-five white—F. R. Pierson Co., first, with White Lawson; H. T. & A. H. Funnell, second, with Queen Louise; John N. May, third, with The Bride. Twenty-five scarlet—F. R. Pierson Co., first, with Flamingo; J. D. Cockcroft, second, with same variety. Twenty-five crimson—F. R. Pierson Co., first, with Dahelm; H. T. & A. H. Funnell, second, with Harlowarden. Twenty-five any other variety—Thomas Eccles, first, with Prosperity; F. Boulon & Son, second, with Mrs. M. A. Patten; F. R. Pierson Co., third, with variegated Lawson.

For roses, Walter Shaw took first for 12 Bridesmaid and first for 12 Liberty. One hundred double violets, H. T. & A. H. Funnell, first; William O'Hara, second. One hundred single violet—F. Boulon & Son, first, Walter Shaw, second.

Certificates were awarded to the Cottage Gardens for new white carnation, Lieutenant Peary, and for Robert Craig, the new scarlet; also specials for Octoroon, Ethel Ward and Enchantress. Certificate was awarded to James D. Cockcroft for seedling crimson, an immense flower, of fine form, on a good stem.

A vase of White Lawson, not for competition, was exhibited by Charles H. Allen; it attracted much notice.

The committee very much regretted that, probably through an error, the Cottage Gardens vases contained but 20 flowers instead of 25, as called for by the schedule, and so were disqualified from competition. They were very fine specimens. Lieutenant Peary, a most beautiful white, and Robert Craig, a splendid dazzling scarlet are evidently leaders. It was also regretted that John N. May's exhibit suffered a little in shipping, so The Bride did not show its full beauty.

Other exhibitors who received awards were: Fred Keiffer, for mignonette; George Ashworth, for roses, carnations and antirrhinum; Robert T. Hillock, for daffodils; F. Boulon & Son, certificate for tree form violet plants; William O'Hara, for pot plants; H. T. & A. H. Funnell, for specimens Phoenix palm and Anna Foster fern.

The committee was gratified by the generous response to its invitation to exhibit by outside growers. A. H. FUNNELL, Secretary.

BUFFALO (N. Y.) FLORISTS' CLUB.—The club meeting held on the afternoon of February 22, in Kasting's "Saturn Hall" building, included a show of novelties in carnations, as President Scott explained, to "give the locals a chance to see the new things without incurring travelling costs." The assortment shown was fully up to, or rather ahead of, expectations, and the display room was the center of active interest for some hours. It was deemed proper to pass on the strictly new sorts as shown, and Messrs. Wm. Scott, H. J. Wise and Chas. T. Guenther acted as judges. The exhibitors, with varieties shown, and points scored on those passed upon included: Victory, bright red, Guttman & Weber, New York City, scored 87 points; F. R. Pierson Co., Tarrytown, N. Y., White Lawson, Daheim, crimson, scoring 84; Variegated Lawson scoring 89, and Enchantress, R. Witterstaetter, Sedamsville, O., a fine pink sort listed as "1021 B." Afterglow, rose colored, scored 88; The Aristocrat, fine cerise, scoring 94. J. A. Valentine, a shell pink, scored 87 points. Weber & Sons, Oakland, Md., a fine white; My Maryland, score not obtained. J. D. Thompson Company, Joliet, Ill., Robert Craig, red, scored 93 points. Lake View Rose Gardens, Jamestown, N. Y., Gladys a beautiful firm white, scored 87 points. Patten & Co., Tewksbury, Mass., Mikado, after style of Prosperity, scored 87 points; also a pink sport of Mrs. M. A. Patten. John Murchie, Sharon, Pa., Fred Burki, white, scored 85 points, and a red seedling, very full petaled. Cottage Gardens, Queens, N. Y., Lieutenant Peary, white, scored 89 points.

Wm. Scott Floral Co., of this city, showed Harlowarden in fine shape. Palmer & Son had an exhibit of Red Lawson from their Lancaster houses, and Fred G. Lewis, of Lockport, N. Y., who also lays claim to a Red Lawson sport, was on hand with a vase of fine blooms. An exhibit from the Chicago Carnation Co., Joliet, Ill., unfortunately, was delayed en route, not arriving till late at night. Our local amateur enthusiast, G. Urban, of Pine Ridge, was on hand in person with a collection of thirty-five (by actual count) named varieties of cut carnation blooms. Such a variety naturally included both standard and new sorts, and proved of unusual interest.

Craftsmen from outside the city who graced the occasion with their presence included H. J. Wise, East Aurora, N. Y.; Alex. J. Guttman, New York City; Barney Myers, Lancaster, N. Y.; R. O. King, of the King Construction Co., and C. J. Pult, of North Tonawanda, N. Y.; Thos. Mansfield, Fred B. Lewis and Fred G. Lewis, of Lockport, N. Y.; Chas. T. Guenther, Hamburg, N. Y.; R. C. Reyniers, Oil City, Pa.; David Scott, Corfu, N. Y.; C. F. Christiansen and Chas. Christensen, Eggertsville, N. Y.; C. H. Roney, Jamestown, N. Y.

A business meeting of the club followed. Routine business being disposed of Chas. Keitsch commented favorably on prospects anent the coming Sweeny Company Spring flower show, to be held in April, as heretofore announced. The present exhibition, and the good influences resulting from such were discussed, and brief remarks were made by Messrs. A. J. Guttman, C. H. Roney and R. O. King.

Nomination of candidates for officers for the coming year, the election for which is to be held at the regular March meeting, was entered into, in a make-up of the following tickets: President, Louis H. Neubeck; vice-president, Chas. T. Guenther; secretary, Daniel B. Long and C. H. Peck; membership secretary, E. Bruecher; treasurer, Chas. H. Keitsch. **VIDI.**

CHICAGO FLORISTS' CLUB.—The meeting of the club on Thursday night, February 23, was very well attended, a good many ladies being present to listen to the lecture by E. G. Rutzahn. A regular meeting was held after the lecture, F. F. Bentley presiding in the absence of President Rudd. This meeting was called in order that the club take some action on the bill just introduced into the State Legislature asking for an appropriation of \$30,000 for the erection of greenhouses at the State Experimental Station at Urbana, to carry on experimental work on diseases of plants raised under glass, and any other that may come within the scope of the station in relation to floriculture. A committee had been appointed some time ago in relation to this work, but owing to the enforced absence of the chairman, no other member seemed willing to take the full responsibility. A motion was passed that three members be added to the committee, and a meeting called for Saturday, February 25, at the office of the Bentley-Coatsworth Company to appoint a legislative committee to go to Springfield and work for the passage of the bill. The members thus appointed are W. N. Rudd, James Hartshorne, Leonard Kill, and Philip J. Foley. Wednesday of this week was the day set for this bill to come up before the appropriation committee. From what can be learned there seems to be a good chance of the florists of Illinois getting help from the State. The bill was given to Representative McKinley, who resides in the same section of the city as Alderman Peter Reinberg; the latter thought it best to give the bill to one of his colleagues to introduce, thereby giv-

ing himself a better chance to work for its passage. The bill was introduced by Dennis E. Gibbons, of Lake County. If this enactment pass the appropriation committee at Springfield, it will then behoove every florist residing in the State to write his representative to support the bill, which should also be endorsed by every florists' club in Illinois. The bill, as introduced, also provides that all experimental work shall be under the supervision of a committee of five florists, appointed by the florists of the State, these to be known as an advisory committee, who shall have full charge of the work and suggest what experimenting shall be carried on by the station. **ROBERT JOHNSTONE.**

THE BALTIMORE (MD.) GARDENERS' CLUB held its carnation show last Monday, and it was a great success. The show was not confined strictly to carnations, as there were also exhibited violets, lily of the valley, roses and sweet peas. H. Weber & Sons, Oakland, staged their white seedling, My Maryland, for which the club awarded a certificate of merit. C. M. Wagner has a deep pink seedling, Lady Edna, for which he received a certificate of merit. John Cook received a certificate of merit for a Lawson seedling. J. E. Haines, Bethlehem, Pa., exhibited a vase of his red carnation, J. E. Haines; it is the finest red carnation ever seen here, being large, fragrant, with long stem, and no bursted calyx. A certificate of merit was awarded it. Mr. Haines also exhibited Imperial, which was considered good. Mrs. F. Harrison Garrett's collection consisted of roses, carnations, lily of the valley, and violets; I. H. Moss, carnations; P. B. Welsh, sweet peas; F. C. Bauer, carnations; T. J. McCormick, pink seedling carnation; Lehr Bros., carnations; John A. Nuth, carnations; J. M. Rider, carnations and violets; Wm. Madsen, roses; C. R. Diefenderfer (C. M. Wagner, gardener), carnations and violets. F. C. Bauer was awarded a certificate of merit for his seedling white carnation. John Cook sent his white seedling rose, also Cardinal; Stevenson Bros., a collection of roses; Wm. Lanahan (J. H. Keplinger, gardener), violets; Luke F. Lacy (patentee of the Oriole carnation support), carnation plants, with his supports. The show was well attended, the hall being filled with people from 2 to 10 p.m. There was no charge for admission, cards being distributed by the club members and the trade. The committee in charge was F. C. Bauer, James W. Boone, Wm. G. Lehr, J. M. Rider, and C. L. Seybold. The judges were C. M. Wagner, Edward Woodfall, and J. J. Perry. **J. J. P.**

No Duty on Shamrock Seed.

Board No. 3 of the United States General Appraisers have announced a decision regarding the status of shamrock seed under the tariff. The collector at Philadelphia assessed a duty of 30 per cent. ad valorem under the provisions for seeds not specially provided for in paragraph 254 of the Tariff act. The importer, William A. Harris, protested, claiming that the seed should come in free, as grass seed. Judge Waite, who writes the opinion of the Board, cites various authorities as to the botanical classification of the shamrock. It is not absolutely certain, it is said, just which plant is the true shamrock, especially the one which, according to tradition, was used by St. Patrick to illustrate the meaning of the Trinity. The Board concludes, however, that, in spite of some uncertainties in this matter, the shamrock is a variety of clover. The Board has repeatedly, in past decisions, held that clover seed should be classed as grass seed, and the protest is therefore sustained.

The Retail Trade

WASHINGTON, D. C.—J. H. Small & Sons had an elaborate decoration at the New Willard for the Bachelors' cotillion. The immense ballroom was draped with southern smilax on a white background, interspersed with American Beauty roses. The large buffet table was decorated with vases of Liberty roses. The favors consisted of small baskets of pink carnations, trimmed with Asparagus plumosus nanus. The corsage bouquets were made of sweet peas. This firm has got everything in readiness for decorating the Pension Office for the Inaugural Ball, a full description of which we hope to be able to give in next week's issue. George Shaffer has a large dinner decoration this week. The table was all in Liberty roses, while in the rooms throughout the house were placed American Beauty roses. Gude Brothers have been very busy and report trade as very satisfactory; they are sending on from their Anacostia establishment some fine American Beauty and a good lot of Cardinal and Enchanter roses. J. L. Loosé has a fine display of Dutch hyacinths and tulips in his store; he is also handling some extra fine azaleas, all of which are grown at his Alexandria place. N. Studer has got a large stock of young rose plants of all the leading sorts; also a big assortment of palms and other tropical plants ready to ship at a moment's notice. This establishment also has thousands of miscellaneous bedding plants in anticipation of the Spring trade. F. H. Kramer is cutting a grand lot of Bride and Bridesmaid roses from his place at Anacostia. J. R. Freeman's Mrs. Lawson and Estelle carnations, which he is bringing in from his Brightwood greenhouses, are extra fine. Clark Brothers, who have been cutting some fine Souvenir du President Carnot and Kaiserin Augusta Victoria, are now cutting the plants back, so as to have them in for Spring and early Summer flowering. George Bowdler is bringing on a fine lot of cinerarias. **M. C.**

Our London Letter.

BY A. HE CSELEY.

THE HEATHER.—Several growers are now giving special attention to the hardy ericas. When at Mr. Russell's Brentwood Nursery in the Autumn, I found he had quite a large stock, which included several distinct varieties, and very pretty they were. It was about the beginning of October that I saw them. Some were over, but many were still well in flower. Messrs. Robert Veitch & Son, of Exeter, are also giving these plants special attention. On January 24 they secured an award of merit at the Royal Horticultural Society's meeting for *Erica mediterranea hybrida*, said to be a cross between *E. cernea* and *E. mediterranea*, and raised by Messrs. Smith, of Darley Dale. On February 14 the same firm showed other varieties, among them *Erica Veitchii*, a hybrid between *E. arborea* and *E. codonodes*; a large bushy plant about three feet high was well covered with tiny white flowers. This should make a useful plant. In a chat with J. D. Troy, of New York, when he was here in August last, I found he was particularly interested in the hardy heaths, and was anxious to secure some to try the experiment of establishing them in the United States. Seeing that they will stand any amount of sun, and are also perfectly hardy, there should be no difficulty.

We have not been overdone with new things in flowering plants during the past season, unless it is in orchids. Varieties of cypripediums, cattleyas, odontoglossums, and dendrobiums are getting too numerous. Among the various things seen there were few that were likely to prove useful for general florists' work. I was favorably impressed with *Tamarisk hispida aestivalis*; the slender branches, covered with pale pink blossoms, were very pretty, and if it would flower freely enough it would pay to grow in large quantities for market. This was shown last Autumn by H. Turner, of Slough. Among old plants which have been revived is *Leonotis leonurus*, which came from the Cape of Good Hope in 1812, and is a remarkably pretty flowering plant. The terminal whorls of bright orange flowers are very distinct and showy. Messrs. Veitch & Sons, Chelsea, grew this well, and, I believe, it would make a good commercial plant if properly looked after. Now that we have better accommodation for growing them, I believe there are many of the old introductions which would be worth looking after.

ROSE PRINCE DE BULGARIE, from Messrs. G. Paul & Son, Cheshunt, which gained an award of merit from the Royal Horticultural Society on February 14 is a promising rose for early work. The color a clear pink, with outer petals nearly white, reminding one of the old favorite *Devoniensis*; but it appears to be of vigorous growth. The blooms shown were on long stems, and stood up well.

At the same meeting Messrs. Sutton, of Reading, secured an award of merit for *Primula sinensis* His Majesty, a pure white semi-double variety. The leaves and leaf-stalks were of a dark shade; the flowers large and of good substance. *Primulas* were quite an important feature at the meeting. In Messrs. Sutton's lot, those with the dark zone round the eye were most attractive. The Czar, considered the best blue, was good; but some good blue cinerarias, in close proximity, dispelled the idea that we have yet got a true blue Chinese *primula*. Messrs. H. Cannell's mammoth strain carried large heads of large flowers, and the various colors were very decided. Messrs. Carter & Co., Holborn, also showed a fine strain; the plants were rather weak, but all the various colors were very good.

The stellata varieties of *Primula sinensis* have not proved a success for market work. They look pretty at home, but after traveling, the flower stems being slender, the flowers drop over and do not show up well.

I find market growers have not attempted the stellata varieties of cinerarias, but have kept to the good old type, with compact heads of brightly colored flowers, and as they save their own seed, selecting the very best from the large quantities grown, the strain is naturally improved from year to year.

THE ROYAL HORTICULTURAL SOCIETY'S ONE HUNDRED AND FIRST ANNUAL MEETING.—The president, Sir Trevor Lawrence, had a pleasant duty to perform in presenting the annual report. The number of fellowships is on the increase, over 900 new fellows having joined during the past year, and the total number now reaches 8,360. The new hall, which is the great event of the season, far exceeds all expectations. The interior fittings are not yet complete, but when properly finished off it will be all that could be desired. There remains a debt on the building fund, but the subscriptions already received (£25,178 ss. 8d.) is no mean sum, and it is hoped that the total cost (£40,000) will be cleared off at no distant date. The loss of Chiswick is regretted by some of the old fellows, yet the new gardens, at Wisley, offer far greater facilities for carrying on the various trials. And it is in many other ways a beautiful site, the only drawback being the difficulty of access, the garden being rather too far from London, and a good distance from the railway station. The council have already erected a nice block of greenhouses and pits, also dwellings for the superintendent and the foremen. Considering the various expenses incidental to changing, the financial condition of the society may be considered highly satisfactory, there being a good balance on the annual income, after paying all ordinary working expenses.

CANADIAN NEWS

LONDON, ONT.—The revival in business noted previously continues; and, as then, is general in all lines. Roses are in good supply, of high quality, and are being all used. Carnations are very plentiful, with the possible exception of white; very large quantities are being disposed of. Single violets are still very good, indeed, and are much more popular than the double sorts, which have begun to show signs of passing. Bulbous stock is, if anything, in oversupply; but very little indeed of the best grades go to waste. In tulips, white and yellow are the popular colors, and in narcissus, the double Von Sion. Paper White are mostly over, but one noticeable exception is a lot of Italian grown bulbs at Gammage & Sons that are decidedly later than the ordinary variety, and valley is still plentiful; it is little used outside of design work. In plants, bulbs of various kinds are most in favor. Azaleas are plentiful and good, but the demand is limited. Some very fine *Primula obconica* are seen, and seem to sell readily. Gammage & Sons are cutting a quantity of very fine sweet peas, white and pink. The plants are grown on the single stem principle, and flower stems 12 to 16 inches in length are not at all uncommon; the spikes average four flowers each, the individual flowers being in proportion to the size of the spike.

The present outlook for Easter stock is excellent, and although the unusual lateness may be detrimental to a few small lines, the main varieties, such as lilies, etc., will be very plentiful. The weather is quite moderate, and there are indications of an early Spring.

FRED. BENNETT.

OTTAWA.—I have just returned from the executive meeting of the C. H. A. at Montreal. There was a fairly good attendance, Ottawa and Toronto being well represented. We were received and welcomed in the same hearty way as of old, taken round to see the principal greenhouses and some private ones. We were dined at Lachine and had supper at Mr. Pinatou's of the City Gardens, and right royally he treated us. The meeting was held here, and good and complete arrangements were made for the annual convention, which will take place on August 8, 9 and 10. Interesting papers on subjects relating to all branches of the business were selected, and from what the Montreal men let drop, two days after the business of the convention is over will be devoted to seeing all the pleasant places in and around that city, which will mean a grand Summer outing to all who attend. The details of the business part you will learn from your Montreal correspondent. Everyone we came in contact with was an enthusiastic worker for the convention. Snow banks five and six feet high in the streets were common. To us from Ottawa it seemed home-like, but to the Toronto members it was not so. A trip, in sleighs, to the Forest and Stream Club, some miles out of Montreal, was enjoyable. At the clubhouse was seen a small range of glass which was simply perfection. The main conservatory was filled with magnificent plants of poinsettias in all sizes, and some of the grandest plants and baskets of *Gloire de Lorraine* begonia that I have ever seen. Azaleas, primroses, amaryllis, cyclamen, begonias and many stove plants in flower, all in the

one house in the one temperature, and many out of season, yet each perfect, showed the skillful work of Thos. McHugh, the gardener, who treated us very hospitably. At another private greenhouse (I have forgotten the name), P. Smith, gardener, we saw some grand orchids, but one of the most interesting places we were taken to was the lettuce establishments. One of these covered three acres and was a grand sight; one house was 400x50 feet one span. The whole ground was covered, not a foot wasted, and not one bad plant seen. They told us at this establishment that they planted 55,000 dozen three times in the season; so there is something else besides carnations.

As advertised, there was to have been a carnation show on February 23 at one of the largest department stores here, but as the responses from exhibitors from the other side were not encouraging, it was thought best to postpone the show until March. Fortunately for us and I hope not unfortunately for the Chicago Carnation

MONTREAL.—The weather leaves nothing to be desired—bright, sunny days with cool nights help the sale of stock. All kinds of bulbous flowers are selling well, but their sale does not affect roses or carnations in the least. The only drawback to the sale of roses is the high wholesale price (\$15) at which they are held. Speaking about bulbs, I must say that Harris & Hopton grow these to perfection. Their hyacinths in pans are beautifully finished, every bulb coming up to flower in good style. Golden Spur daffodils and tulips in all colors are grown in quantity and nicely finished. Needless to say, this class of stock meets with a ready sale. Carnations are of good quality, but we do hope to get a good red variety out of this year's introductions, a variety that will give flowers early in the season. Flamingo is not a commercial success here.

The executive committee of the Canadian Horticultural Association met here on Thursday, February 23. The committeemen from outside points were:

lasting qualities. Lady Bountiful, beautiful, well finished, 3½-in. flowers. Cardinal, a grand scarlet color, just right, stiff stems, good calyx, 3¼-in. flowers, in excellent condition in Montreal, all the way from Chicago. Seedling No. 326, white, was highly thought of; stem perfect; good calyx, high-bull flower after Lawson pattern; awarded a certificate of merit. Enchantress, in splendid condition, and such stems Illinois, a very bright, splendid scarlet. Mrs. Patten, grand flowers; Prosperity, with unusually good stems; Dorothy Whitney, fine color and stems; Harlowarden, fine stems, but a little sleepy. Crusader, sleepy. Moonlight, good white, medium-sized flower, fine stem. Mrs. Lawson were fine; certainly this variety, and its sports, are grand shippers, and seem to improve with old age.

The Montreal florists are certainly greatly indebted to Mr. Hartshorne for this exhibit. Considering the long distance traveled, the flowers were wonderfully fresh, and they kept fresh.

W. C. H.



Front View

Side View

Back of Frond

NEPHEROLEPIS PIERSONI ELEGANTISSIMA, THE TARRYTOWN VARIETY

Company, they sent an enormous exhibit, I should say 600 or 700 grand flowers. I have never before seen such a uniformly fine lot from one establishment. Vases of 100 Lady Bountiful were grand; Enchantress the same. White Lawson, to me, was the gem after, of course, Fiancee, which all said was perfect. Moonlight was another fine white. Another white that seemed to be a grand one, by number, I think, 426, proved a good keeper. Then a magnificent 100 Cardinal was a sight, and took everybody by its color, stem, etc. Harlowarden was in poor condition when it arrived. Mrs. Lawson was there with its usual size, stem and color. Illinois was another fine variety, and one or two more, which, if they had not been in such high company, would have been great. These had a long journey, which tested their keeping or shipping qualities. On the next day the two Lawsons did not show any signs of travel; Lady Bountiful, Cardinal, Enchantress and the seedling unnamed came next; Fiancee and the others began to look tired. But the fine flowers and really grand stems on all was a sight to us small carnation men. If the show had been on, it would have taken a grand 100 to beat these. E.

J. H. Dunlop and H. Simmers, Toronto; A. H. Ewing, Woodstock; E. I. Mepsted and R. Wright, Ottawa. The principal business was deciding the dates of the annual meeting, which will be August 9, 10 and 11 next. Program and all information can be obtained from the secretary, A. H. Ewing, Woodstock, Ont. Certificates and honorable mention awards will be given all exhibits, if worthy. The committee decided to hold a dinner, under their own auspices, rather than allow the local club to do so. This was deemed necessary, so that when the association meets in a small place the local florists will not feel obliged to entertain such a large number of members.

Our carnation show, at the last minute, was postponed to March 6. All growers were notified, but the Chicago Carnation Company sent along an immense and splendid display, which would certainly have won the cup if competition had been held. The flowers were of the finest quality I ever saw, and the stems, well, they were more like bamboo stakes. The following varieties were sent: Fiancee, 3¼ inches in diameter, perfect in form, color and stem. We all hope we will get our cuttings soon, White Lawson, undoubtedly the finest white, of wonderful

SPRING VALLEY, N. Y.—A. A. Newberry is producing fine violets which he is shipping to one of the swell uptown florists of New York City

Syracuse, N. Y.

News Jottings.

All of the florists' stores are now bright with an abundance of bulbous stock. Wheadon & Bencke have as their specialty hybrid roses in pots very well done; while Henry Morris is handling some very choice sweet peas. He is heavily stocked with potted hyacinths and tulips in variety which meet with a ready sale. P. R. Quinlan & Co. have an abundance of very choice stock in all lines, but the most striking is their Flamingo carnations, which are truly superb.

Roses bring \$1.50 to \$3; carnations 50c. to \$1.25; tulips, \$1; daffodils, \$1; violets, \$1.50 to \$2 per 100; sweet peas 25c. per dozen.

P. R. Quinlan has taken a trip to Cuba to look after his paving interests; he has secured large contracts for street paving there.

L. E. Marquisee is again confined to the house with la grippe.

Mr. Gannett, of Geneva, N. Y., was in town the past week. J. R. B.

Review of the Market

NEW YORK.—There has been a slight increase in the supply of Bride and Bridesmaid roses this week, and a general tendency toward lower prices has resulted. Special stock is more frequently sold at 10c. than at a higher figure, though occasional sales at 12c. have been recorded. Next to the special grades number two are meeting with the readiest market, but extra and number one are not clearing out so readily; neither will they average up so well in proportion to their value. Special American Beauty were advanced to 75c. in the early part of the week, owing to their scarcity, and, perhaps, to an impression that the inauguration ceremonies in Washington would create an extraordinary demand. But by Thursday the 60c. price was again ruling, and there were enough specials to fill all demands. With American Beauty it is the short-stemmed grades that provide the problem, though they do clear out at some price or other.

Carnations are not doing as well as they did last week; especially is this noticeable among the fancy varieties. Enchantress has been cut to \$2 and \$3 per 100, and unless Prosperity is well colored, that variety is doing no better. Ordinary carnations are freely offered at \$1 per 100, and there is an immense supply of them.

Violets are now coming in with their usual Spring abundance, and prices are right down to the Spring values. If the weather were only a little warmer, perhaps they would clear out better; but even with low values they accumulate from day to day.

Lilies have experienced a cut, and \$4 per 100 for some of them, has ruled on some days. Of course, the blooms sold at that figure were not of the best, but they were fresh and answered the purpose for decorating, just as well as the best. Lilies are extremely plentiful just now, as are callas, which also have been offered cheaper this week.

Tulips are now offered at from \$1 upwards, and narcissus in variety, excepting the double yellow, have been cleared out in job lots at 50c. per 100. The supply of this class of materials is away above the demand. Sweet peas get more plentiful every day, and sell but slowly. Smilax, when good, goes quite well, and an advance in price is noted.

BOSTON.—Flowers of all kinds are getting more plentiful. Roses are more numerous than for several weeks past; new crops seem to be at hand of American Beauty, Bride and Bridesmaid. Liberty is yet inclined to be scarce. Ulrich Brunner have just made their appearance. Queen of Edgely, which has not been seen much in Boston recently, has again made its appearance in first-class shape and sells at good prices. Carnations are also increasing in quantity; the quality is all that could be desired; in fact the best blooms are now coming in of any seen this Winter. Lilies, both Harrisii and longiflorum, are becoming plentiful, and prices are not so good as they have been. Callas are in supply. Violets are, as formerly, plentiful, and do not bring so good a price as they did a week ago.

J. W. D.

PHILADELPHIA.—While there is not any rush of business in cut flowers, there is a fair amount of work going on. The only stock at all scarce just now is American Beauty roses. The price is now \$7.50 per dozen. Of all other flowers the supply is slightly in excess of the demand. Gardenias are now selling at \$1.50 per dozen, and are likely to go lower, as several growers around here are now cutting. Carnations are very plentiful. The choice flowers are going well.

The Philadelphia Cut Flower Company is well satisfied with business. This firm is handling a large quantity of choice roses, carnations and bulbous stock.

Eugene Bernheimer is doing a nice business in sweet peas, and handles some choice Bridesmaid roses.

William J. Baker, as usual has a fine lot of carnations, also some choice narcissus and double tulips. His specialties now are daisies, white and yellow.

William J. Moore has had a very good season; he is doing very well with carnations and general stock.

At the Flower Market business is going along nicely; they are handling some choice carnations and a very choice lot of antirrhinums.

Samuel S. Pennock is, as usual, doing a good shipping trade, and is handling a large quantity of choice stock. His southern business is using up a large supply of choice carnations and lily of the valley.

DAVID RUST.

LOUISVILLE, KY.—Business continues satisfactory, especially brisk being the demand for funeral work. Weather conditions have been more favorable, and stock shows the effect of this. Violets, which have been very scarce all Winter, are now coming in more plentifully, but as yet there has been no surplus. Pink carnations, one of the Mrs. Joost and Mrs. Nelson grade, seem to be a little larger in supply than the demand. Prices are the same as last quoted.

A. R. B.

CHICAGO.—With more Springlike weather prevailing, business in all lines has livened up considerably. Stock in general has increased and the quality is better. Shipping trade has improved. Local business has also taken on a fresh spurt, but is not so good as in former years at this time. American Beauty roses are in supply ample enough to meet all demands, and prices remain firm. The quantity of Bride and Bridesmaid is increasing, with a good call, although values on fancy grades are not so high as heretofore. The supply of Liberty is not over-plentiful, but some very good stock is being received. A few Mme. Cusin roses are arriving and are being used mostly for funeral work, selling at \$3 per 100.

Carnations have been coming in more freely, with an active demand, especially for shipping orders. There does not seem to be any over-supply of this stock at any time; in fact, on some days there is a scarcity. Prices, however, have declined somewhat since last report.

Violets are selling at lower values than for some time past, the better grades not fetching above \$1 per 100. Large quantities of bulbous stock are on the market, tulips in the majority; as a consequence, prices are lower. Single tulips sell at from \$2 to \$4; doubles at from \$4 to \$5.

Lilies are becoming more numerous, Harrisii being now seen in almost every commission house; they sell at \$15 per 100. Callas have been a drug on the market the past week, and it is hard to dispose of them at anything like remunerative prices.

R. J.

INDIANAPOLIS.—The retailers have been busy with funeral work. This came at an opportune time, as large quantities of stock would have gone to waste had the demand for bouquets and large designs been normal. With the warm, bright weather prevailing, it will be impossible to dispose of all the stock during the coming week. Roses have increased in price. Select Bridesmaid, Bride, Golden Gate and Mme. Abel Chateau wholesalers at \$6 to \$7; firsts at \$1 to \$5, and seconds at \$2 to \$3 per 100; \$1.50 and \$2 a dozen are customarily asked for the foregoing varieties at retail. Select Liberty wholesale at \$10 to \$12 per 100. American Beauty remain at \$6 per dozen for 36-inch stem stock; \$2 to \$3 per dozen for 24 to 30-inch stems, and \$1 per dozen for 12-inch.

The supply of carnations has exceeded the demand. Many calls are being received from growers, offering fancy grades at \$3.50 per 100; medium grades, such as Lawson, at \$3 per 100, and small grades \$1.50 to \$2 per 100; 75c. a dozen is asked for carnations at retail. Quantities of white lilies are in the market at \$1 a dozen sprays.

Rhododendrons of exceptional quality are being forced in this section; not many of them are sold, but they are not to be surpassed for store ornamentation or for large decorative work. Azalea mollis outsells the other varieties by a wide margin. Pans, or flat pots, containing five to eight hyacinths, or tulips, arranged with an inexpensive pot cover, sell well. Violets and fancy plants, arranged in small handle baskets, are favored by many.

I. B.

NEWPORT, R. I.—Our florists have had a very good week, as there has been an unusual number of funerals, and counter trade has increased quite a little. As regards prices, at both wholesale and retail, there is very little change, except that violets have been very plentiful and consequently cheap.

F. W.

ST. LOUIS.—The condition of the cut flower market improved somewhat the past week in all departments of trade. The consignments of cut stock at the wholesale house are very heavy, and one seeing all the stock that is left over every morning at these places would think business in St. Louis was very dull. It is almost impossible for the wholesaler to dispose of the big surplus existing.

Quite a number of wedding orders have been reported for this and next week; these have been placed in the hands of the West End florists who do most of this kind of work. Of funeral work, the trade has had plenty, especially the downtown florists, also those in the southern part of the city. Roses have cleared out fairly well; that is, the light colored stock. A few special American Beauty were sold at \$5 per dozen, but the bulk went at \$4. Flowers with medium stems, are scarce; but shorts are very plentiful at \$6 per 100. Special Bride and Bridesmaid bring \$6 per 100. Specials in other varieties remain as last quoted. Bride continues in demand, while other varieties have very light calls.

The supply of carnations has not as yet diminished. Nice fancy stock, in the leading kinds price, is down to \$1 per 100; extra good flowers can be had at \$2 to \$3 per 100, and common as low as 75c.

Violets are being received in enormous quantities; one of our wholesalers cleaned up nearly 60,000 in one day the past week at \$2 per 100; in single 1000 lots, they are held at 30c. per 100. These are all California, of the best quality; very few double are sold in this market.

Great quantities of bulbous stock are still piled up at the wholesale houses, and obtainable almost at your own price. Among this stock some extra fine lily of the valley, Roman hyacinths, Paper White narcissus, Dutch hyacinths, Von Sion narcissus, freesias, tulips Harrisii lilies and callas are going to waste for want of demand. Prices on any of the foregoing would be hard to quote correctly. Everything in greens is in big supply and fair demand.

ST. PATRICK.

ST. PAUL, MINN.—Trade has been variable, good one day and poor the next; but, on the whole, better than last year. Our cold spell lasted from December 27 to February 16 but we were spared the blizzards and snows of less favored sections. We have had a Winter of sunshine, and coal hills have been lighter than last year. The warm weather of the past ten days has brought out an abundance of good blooms, and all stock has bloomed shyly all Winter, are now producing full crops. Roses, which have been somewhat scarce, are now in full crop, and there is an abundant supply for all demands. Violets are also coming in more freely, and under the influence of the bright weather have improved in quality. All bulbous stock is plentiful, daffodils, lily of the valley, tulips, hyacinths, Paper White narcissus, freesias, alliums, etc., all contributing their quota.

There have been but few weddings and only a limited number of receptions, so that the decorator's skill has been called into use but very little. For funeral work there has been a constant demand. Country trade shows a healthy tone, and altogether business conditions are good and prospects excellent. St. Valentine's Day showed a slight increase in trade and Washington's natal day a very pronounced one.

The traveling fraternity has been arriving and departing for two months past. Our latest callers were: M. Reukauf, representing H. Bayersdorfer & Co.; B. Eschner, of M. Rice & Co.; M. Spero, of Linn & Co., and the representative of Veldhuyzen, Van Zanten & Co.

VERITAS.

WASHINGTON, D. C.—Business has been up to the usual standard of the past few weeks, and the prospects seem bright for some time to come. While there has not been anything of importance going on at the White House, there has been a good deal of entertaining outside. The mild weather of the past few days has improved the transient trade very considerably, and the demand has been about equal to the supply. American Beauty brought from \$7 to \$12; Liberty, \$5 to \$3 per dozen. The supply of this latter rose has not been equal to the demand. Meteor, Bridesmaid, Ivory and Golden Gate have realized from \$2.50 to \$4 per dozen.

Of Kaiserin Augusta Victoria and Souvenir du President Carnot, the supply has been short, at from \$3 to \$5 per dozen. Violets from New York brought \$1.50 to \$2 per 100; the market at present is overstocked. Lilac sell at from \$3 to \$4 per dozen; the stock is extra good and goes readily. Sweet peas are in demand at 50c. to \$1 per bunch; freesia, 75c. to \$1 per dozen; mignonette, 50c. to 75c. per dozen. Narcissus, Roman hyacinths and tulips realize 50c. to 75c. per dozen. Dutch hyacinths are moving slowly at 75c. to \$1 per dozen. Asparagus Sprengeri sells at \$2.50 to \$3 per 100 sprays; Adiantum cuneatum and hybridum fronds, at \$1.50 to \$2 per 100.

Since the break in the severe weather trade has shown a decided improvement along plant lines. Kentias and arecas in 6-inch and 8-inch pots, have been in demand at \$1.50 to \$2.50 each. Nephrolepis bostoniensis and Piersoni, in 6-inch pans, brought \$1.50 each; adiantum, 50c. to \$1 each; lilies, in 9-inch pots, \$4 to \$7 each; azaleas in 6-inch pots, from \$1.50 to \$2.50 each; azaleas, in 4-inch pots, are in great demand at \$1 each. Cinerarias, nice plants, bring 75c. to \$1 each; Primula sinensis, 50c. to 75c. each.

BALTIMORE.—Business is not as satisfactory as a week ago. Roses are not too plentiful; hardly enough of the better grades to go around, with a few of the poorer grades held over. Carnations are nothing short of a glut; it is impossible at this writing, to move them at even low prices. Temporarily, there is no fixed price on them, most anything in reason being accepted to move them. Violets are short one day, the next too abundant. Bulbous stock is moving fairly well, with too many callas. The scarcest thing is asparagus, with smilax not too plentiful.

J. J. P.

KALAMAZOO, MICH.—For the past two weeks business is reported as being very good by all in the city, both the shipping trade and retail being quite brisk. Finer weather now prevails after a spell of fierce, stormy weather, during which the thermometer dropped to 20 below, taxing the heating systems to their full capacity. No particular damage is reported as a result, although at times the situation was pretty close to the danger point. All kinds of stock are in abundance except long-stemmed American Beauty roses and perhaps a few more teas could also be used to advantage.

S. B.

CINCINNATI, O.—General business is not rushing. Funeral work is plentiful, and white stock of all kinds, barring Roman hyacinths, moves lively. White roses and white carnations are at a premium. White tulips sell fairly well, but at low prices. Princess of Wales violets are in fair demand at 50c. to 75c. a 100. American Beauty roses form good stock when the flowers are good, but the greater percentage of them are bullheads; they are fetching 50c. to \$5 and \$6 per dozen.

E. G. G.

YORKVILLE, N. Y.—George H. Benedict is planning to add 20,000 feet of glass to his already large plant. He will also install a new 150 horse-power boiler.

The Fumigating Kind Tobacco Powder

All That Use It Say "There Is Only One"

Troy, N. Y.
Enclosed please find two dollars; ship at once 100 pounds The Fumigating Kind Tobacco Powder. It was a pleasure the freedom we enjoyed last season from insects through the use of your powder.

Purcellville, Va.
We have given The Fumigating Kind Tobacco Powder a thorough trial on Carnations, and we are well pleased with the result. We are able to keep the plants entirely clean.

A. B. DAVIS & SON.

A FREE trial five-pound bag will cost you nothing more than the express charges on it. The trial bag will prove our assertion that it is the most effective, cleanest and quickest, as well as the cheapest (10 cents per 100-foot house) article to fumigate with. All aphids killed in one night—our booklet tells of it; we mail one on request.

THE H. A. STOOHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York

Mention the Florists' Exchange when writing.

An advertising opportunity that should not be neglected.
Purchasers waiting for your offers.

An issue that will be read from cover to cover, and distributed
from the Atlantic to the Pacific.

Our Sixteenth Annual Special Spring ..and.. Easter Trade Edition

THIS Special appears at the most opportune time of year for hundreds of advertisers. Spring Surpluses, Easter Stock, and the usual run of planting-out material, will be largely in demand, as will also be the many seasonable offers of the Seedsmen and Nurserymen.

The object of this Spring Special is to give our advertisers the opportunity of the year to secure their share of the business and the profits which are at this time available.

DATE OF ISSUE

Saturday, March 25

We therefore solicit your special advertising for this edition, confident in the belief that you will find your outlay well rewarded.

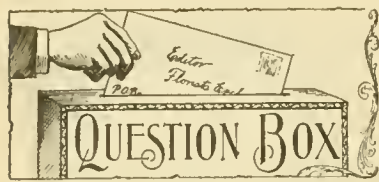
Extra features of interest in both reading matter and illustrations will greatly enhance the value of this Special Edition.

Write your advertisement now. Make it bold and prominent. Tell your story in an interesting way. THE FLORISTS' EXCHANGE will do the rest. The earlier we receive your "copy" the more time we will have in which to make it attractive. Send it in to reach us by the 20th of March, if possible.

**A Business Edition for Business Men in an
Unsurpassed Business Bringer**



P. O. BOX 1697
NEW YORK CITY



Handling Cuttings of Shrubs.

(88) I have about 400 to 6,000 shrubs, rooted, Summer cuttings. These were struck in flats, in soil, close together, and are well rooted, standing under a greenhouse bench. They are beginning to sprout out, bud and bloom. The kinds are weigellas, Philadelphus, anemone, deutzias, forsythia, Japan snowball, spiraea, spice wood, ribes, Azalea amona, berberis, Prunus Pissardi, etc. Can I leave them in the boxes where they are until April or May and then plant them out in nursery rows? I am crowded up with bedding plants and have not much room. Is it necessary to pot them? W. S. H.

—It is a pity you had not found a place for the flats of cuttings outside where they would have been dormant until Spring. Then you could have set them out in nursery rows when April came. As the plants have now sprouted you must, of course, continue them in heat through the Winter. When Spring comes, you may be able to separate the plants carefully with some ball of earth attached, and set them out in rows. You would need to water them well and to shade them for a few days, when they would probably live. Potting now, or transplanting into other boxes, to give them more room, would be better; but this you cannot do. Next year set the boxes outdoors for the Winter, covering them completely with forest leaves. J. M.

Transplanting Wild Kalmia.

(89) In this vicinity (Essex, Conn.), the hills and fields are covered with sheep laurel, or wild rhododendron. Those who have tried to transplant them have met with failure. Please inform me the proper time to transplant them, and general directions. F. S.

—There must be something wrong in your mode of transplanting the sheep laurel (kalmia) and rhododendrons. It is difficult to get a good ball of roots with a wild sheep laurel, and for this reason nurserymen are accustomed to cutting the plants back severely when taken from the woods. Get as much of a ball as you can; prune the plants well and you ought to lose but a few. In the care of rhododendrons, if dug up carefully, they thrive very well without being cut back. They make a mass of roots naturally, so that it must be careful digging that does not secure sufficient roots to assure a successful transplanting. Plant both the sheep laurel and the rhododendron early in Spring. Thousands and thousands of such rhododendrons are planted successfully every year. J. M.

Eel Worms on Roses.

(90) I am sending under another cover by mail two diseased rose plants; will you please state the cause of the trouble? D. R. H.

—The roses are very badly afflicted with root galls, caused by eel worm, and the trouble is so far advanced that we fear nothing will check it. The best thing to do now would be to throw out the entire crop, together with the soil, and use the bench space for something else.

Street Sweepings as Manure.

(91) I have about 25 loads of soil piled up. It consists of leaves, sand, manure, etc., sweepings of the streets by the City Street Cleaning Department. It has been lying for almost a year now. Would this compost, mixed with soil and cow manure, make good ground for carnations and chrysanthemums? E. M.

—Where land is heavy and of a clayey nature, the street sweepings might be used to advantage, as the large amount of gravel contained in them would help lighten such a soil and made it more porous. On no other soil would we attempt to use the sweepings for carnations or chrysanthemums.

Cannas and Dahlias.

(92) I have a lot of cannas and dahlias in a fairly light cellar, that

I can heat by stove. Having no other place to starve them, could they be started with good results in the cellar, and when, for June planting? B. A.

—Do not start the roots in the cellar, but about the first of April start them in the greenhouse. Under a bench will do for a few days; but they must be in the full light as soon as growth commences, or they will not make good stock for planting out.

Shell Lime—Tobacco Dust.

(93) C. L. Allen's letter on stem rot in cabbage, in your issue of February 11, page 178, has caused me to inquire among dealers in Philadelphia, but I have not been able to find any one who has shell lime, nor can any of them tell me where it can be obtained. I appeal to your readers for information. If I cannot procure the shell lime, will any other lime produce the same results? I contemplate using tobacco dust very freely this Spring, when setting young plants in the ground, by putting a small handful into each hole before setting the plants. Will there be any danger in so doing?

SUBSCRIBER.

—Perhaps some reader will give the information desired.

Asparagus Sprengerii.

(94) I have a bed of Asparagus Sprengerii, about 100 feet long and 3 feet wide. This is its second year, and it is not doing well. The sprays grow almost any length, some as long as 6 feet. The foliage is very sparse; in fact, it is almost all stem and no foliage. The bed was prepared with horse manure which was about one year old before using. I used plenty of it, and now think I may have used too much. What little foliage is on the stem is a yellowish green, making the product unsalable. Can you tell wherein the fault is? FLORIST.

—The trouble is not with the soil; it is with the plants. They are too old and will produce long strings instead of short sprays. Throw them out and plant young stock.

Carnations for Outdoor Culture.

(95) What carnations are best to grow in the flower garden for cut flowers? I can sell lots of flowers, as I live near a cemetery, but I don't know much about the carnation, and what age plants should I set out for the purpose named? A SUBSCRIBER.

—Carnations for blooming outdoors should be from 4-inch pots and have been propagated in the December previous. Good varieties for that purpose are Queen Louise and Glacier for white, Mrs. Frances Joost and Mrs. T. W. Lawson for pink, and J. H. Manley for red.

Lily of the Valley.

(96) Kindly tell me if lily of the valley potted up in pans last November and buried outdoors will bloom this Spring. The plants were taken up out of a bed in the garden, where they had been for several years. Also, can I still take up the balance and make use of them in the same manner for the plant trade? H. C. O.

—If the lily of the valley pips are not forced, but allowed to come along naturally, they will flower all right, providing they are of flowering size. The balance of the pips can be taken up and potted, and the majority of them will flower, if they are not forced in any way.

Heating.

(97) Please let me have your advice on heating my two houses so as to hold the temperature at 60 degrees in zero weather. The thermometer here rarely falls lower than 6 or 8 degrees above zero. I will use 3-inch pipes and an Ideal boiler. C. P. W.

—The plan shows one house 14 by 45 feet with a 4-foot brick wall on one side, and on the other side a 13 by 33 foot house, with an exposed frame wall containing 2½ feet of glass. This house has a small addition 6 by 6 feet at the southeast corner. If three-inch pipe is to be used, it will be well to have about five runs in each house. This will require one flow and two returns along the exposed walls, and one flow with one return along the center wall in each house. In the house with the 6 by 6 foot addition, it will be well to carry the pipes around the corners, so as to reach the exposed corners of this portion. It will be desirable to have

the top of the boiler as low or lower than the returns. Arranged in this way the flow pipes should have a slight rise and the returns should have a similar fall. If in an exposed location, or if there is danger of zero weather of long duration, an additional return in each house will be desirable. L. R. TAFT.

I am building a new house and I want to heat it with 2-inch pipe for flow and 1½-inch return. I have a lot of 1½-inch pipe I want to use up. Please let me know how much pipe I should use for a house 100 feet long, 20 feet wide, 11 feet to ridge, one glass gable end, toward the west, south side wall 4 feet high, 2 feet of boards and 2 feet of glass; north side wall 4 feet high, all boards. I would like to heat the house to 55 degrees in zero weather. Would an old style Scollay No. 5 hot water boiler do the work? F. B.

—While only about 800 square feet of radiating surface will be required for heating the house described, it will be well to have a boiler rated for about 1,000 square feet. If the Scollay boiler referred to has this rating, it will probably answer. Although 1½-inch pipe is rather small for use with hot water for a house 100 feet in length, it will give fair results if the top of the boiler is three or four feet below the returns. To heat the house, four 2-inch flows and twelve 1½-inch returns will be desirable. In case the boiler can be five or six feet below the coils, only ten returns will be needed.

L. R. TAFT.

I would like to have some information on our hot water heating. The water boils in the boiler before it warms the house at the south end. The houses are 100 feet long.

WANDERING JEW.

—The boiling, of course, is due to the fact that, owing to some faulty construction of the system, the water cannot circulate. It may be that there is a pocket in the pipes in which the air collects, or that the boiler is too high to give a good circulation. The return pipe should always have a light fall, and the flow may run either up or down. Provision should be made in some way for the escape of the air from the highest point. L. R. TAFT.

Millers on Tomato Plants.

(98) Please let me know the best way to destroy millers on tomato plants. I have some nice plants coming into fruit, but the little millers are all over the foliage. I have fumigated with tobacco stems a number of times, but find that unavailing. W. H. K.

—Pyrethrum powder, applied to the plants with a bellows, will destroy the white fly.

Time to Cut Down Privet Hedge.

(99) What is the proper time to cut down a hedge of privet planted about eight years ago. I would like to cut it down to about 8 inches from the ground. The hedge is poor at the bottom, but all right on top. L. W.

—The present time is just right for cutting back a privet hedge.

Rhododendron Maximum.

(100) I would like to hear some experienced nurseryman's opinion as to the hardness of collected Rhododendron maximum? Should same be planted in Spring or Fall? Is it necessary to shade them the first Winter after planting? If not shaded, will the leaves turn brown from the effect of the sun, and, if so, why should they not be shaded every year? The plants in question are planted in a partly shaded place. I. L.

—There is no rhododendron harder than the maximum. If collected with good roots, as can easily be done with care, every one should grow. Plant them in Spring only. The leaves are greenest when in the shade; they do not turn brown when in the sun in Summer, but they often do when in the sun in Winter. They do much better when in partial shade, just as all other rhododendrons do. If not planted in the shade, shade them in Winter by evergreen boughs or something else, as all good gardeners do with all rhododendrons. It is not necessary to shade in Winter where hard freezings do not occur. J. M.

PLANT FOR NAME.—J. Brusandean
—The leaf sent for name is that of the common fig tree, Ficus Carica. Southernwood is a sweet-smelling plant, with finely cut leaves; its proper name is Artemisia abrotanum.

Carnations in Violet House.

(101) We have a violet house that did not do very well this Winter; it has solid beds, and we think of putting in carnations next Summer. It is only 18 inches at the eaves from the bed to the glass on the south side, and we thought of planting some freesias now. The bed is 3 feet wide, 100 feet long. How many bulbs can I plant in that space? I see that the catalogues say freesias will bloom in four months from seed. Is that so? If so, would it be better to buy seed or bulbs? When should the bulbs be planted, and how long before they will bloom? Will they grow all right in a carnation temperature?

X. Y. Z.

—We have never grown freesias from seed but, presuming that they did bloom in the time stated, we do not believe that the flowers would amount to much compared with those grown from good-sized bulbs. However, it would not pay to plant bulbs even at this time (supposing that one could get them), as they would be flowering in July, when there would be no demand for them. To plant such a bed, it would require 2,000 bulbs. This would allow them to be put in rows across the bed six inches apart, and the bulbs three inches apart in the row. The best time to plant freesias is in August, or September. A carnation temperature is very suitable for them, and they will flower in from 14 to 16

San Francisco.

News Items.

The Pouyal Flower Stand celebrated its thirty-fifth year in business on Washington's Birthday. Alfred Pouyal, the manager, is representative of the second generation of his family operating the store, which was founded by John Pouyal, recently deceased.

T. Thomson, of Santa Cruz, made his last shipment for the season of narcissus—some 20,000 blooms—on Thursday, February 23. He has shipped in all some 150,000 flowers. They sell at \$1.25 to \$1.50 per 100, wholesale.

Violets are bringing \$4 per 100 bunches. Lilium longiflorum is in demand, at \$1.25 to \$1.50 per dozen. Carnations are in good supply, the retail price being from 2c. to 5c. A seedling, yet unnamed, in size and color very like Fiancee, is being propagated in Gallo-way's glass houses near Elmhurst.

Fick & Taber, prominent carnation growers at San Mateo, are out of pocket about \$200, a loss incidental to recent wet weather that caused the caving in of an embankment that buried the firm's boiler and damaged piping, and the consequent loss of many blooms from lack of heat while repairs were being made.

The Morning Call, one of the front rank daily newspapers of this city, is vigorously pushing a scheme for securing subscriptions and small advertisements by offering to each patron a premium consisting of a choice of rose plants of varieties indorsed by floriculturists. The appeal is for general adornment of the city. Among the many prominent San Franciscans commending the idea, the Call publishes the names of the Outdoor Art League, Thomas H. Stevenson, Palace Hotel florist, and John McLaren, superintendent of Golden Gate Park. ALVIN.

DENVER, COL.—In order to stimulate efforts to make Denver a city of flowers, A. T. Lewis, of the A. T. Lewis & Son Dry Goods Company, has announced a prize of \$1,000 to be given to the owners of vacant lots who do the most to improve their property along this line. It is not decided yet whether the \$1,000 will be given as one prize, or whether it will be divided. The only condition attached is that a concession be obtained from the Denver Union Water Company to furnish water to irrigate the flower beds. Seed dealers and florists will be asked to take a hand in the work, and it is expected that other premiums for beautifying Denver will be offered by public-spirited citizens.

PASSAIC, N. J.—A casket cover of violets and orchids at the funeral of W. E. McAllister was one of the finest ever seen in this section. Mr. McAllister was one of the most popular men in this town. He was a member of the Royal Arcanum, the local lodge of Elks, the Eagles and also of Reserve Engine Company.

THE WEEK'S WORK.

Timme's Timely Teachings.

Plants for Easter.

Plants that have until now been kept in dormant condition, or partially inactive, should be aroused from their sleep and set to work, if they are wanted for Easter...

There are a number of plants of various kinds besides those spoken of in previous articles, that must now be placed into bed, beginning with 45 or 50 degrees, and as they develop their foliage and form buds, gradually increasing the temperature to a point deemed high enough...

It seems, therefore, advisable, after these plants have made a nice start in comparatively cool house, to raise the temperature but slightly and very gradually up to the beginning of April...

Some of the common greenhouse plants - geraniums, begonias, Brompton stocks, ligustrum, cyclamen, callas, primulas and many others of like character may now be worked into shape for the Easter trade...

Not much heat will be needed to force yacynth, daffodils, tulips, lily of the valley in pans and other bulbous plants to bloom for Easter. The boxes, pots or pans, stocked with these bulbs, unless on-growth has advanced to a point where rodding back becomes difficult, need not be brought forward until the last week in March...

Decorative Foliage Plants.

In the beginning of March sufficient time can generally be found to make possible a thorough going over, cleaning, re-potting and resetting of the larger ornamental foliage plants. Large leaved specimens are greatly benefited by a good pruned, and where scale is found, a more thorough cleaning with brush and soap, followed by a good hosing, is necessary...

All thrifty, fast-growing plants of the larger sizes, badly needing it, should now be repotted, this being for most varieties the best time of the year for this operation, although there are some, especially if grown under conditions commer-

cially correct and justifiable, which never grant them a moment's rest, that may, with good results, be transplanted at almost any time of the year. However, over-potting should not be practiced, and it is gratifying to know that most wholesale growers, adjusting their scale of prices according to the size of the pots, are, at present, giving buyers less cause for complaint on this score than formerly

Swainsona.

Cuttings of Swainsona galegifolia root in ten or twelve days, with bottom heat. Any side shoot, from three to four inches long, taken from growing, thrifty plants, by pulling it sideways out of the axil, formed by leaf and main stem, is a good cutting and needs no further trimming. These cuttings must not be allowed to wilt, neither before nor after they go into the sand. If regularly attended to as to watering, potting and repotting, they will make good four-inch flowering plants by Decoration Day, suitable for cemetery planting...

As with the cuttings, so with the sprays or single blooms; they must never once be caught in a wilting condition, or they are worthless. A few cuttings at a time and taken care of, before more are gathered, are sure to root; and twenty-five or fifty sprays, picked and put in water before the picking is continued, are sure to last for a week. From a bench, or ground bed, stocked with a few hundred plants of the white variety of swainsona, great numbers of flowers may be cut every two days for at least six months.

FRED W. TIMME.

DAYTON, OHIO.—The Miami Floral Company has increased its capital stock from \$15,000 to \$30,000.

Every Young Gardener Should Have It.

THE GARDENER'S ASSISTANT came to hand safely, and from the glance I have given it I think it a grand work, and should be in the hands of every young American gardener.

NEIL McCALLUM.

Pa.

Sure, It Is.

The Exchange is all right. R. I. W. H. FLYE.

My Need for Room Is Your Chance

10 per cent discount for cash if taken at once on my

CARNATION CUTTINGS

Per 100: Flamingo, Indianapolis \$5.00; Crusader, \$8.00; Fair Maid, Boston Market, \$1.75; Queen, \$2.50; Enchantress, \$3.00; Lawson, \$1.40; Boston Market, Fair Maid, unrooted, \$1.00. Write for other varieties. Rooted Bonnafont for sale.

OTTO BOURDY, LOWELL, MASS.

Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings Clean and Healthy Per 100 Mrs. M. A. Patten \$8.00 Nelson Fisher 7.00 Enchantress 3.00 Wolcott, Boston Market, J. H. Manley, 2.00 Also a few, Rosa Rugosa and Rosa Lucida. Write for prices.

SIDNEY LITTLEFIELD, North Abington, Mass.

Mention the Florists' Exchange when writing.

Carnations

SELECTED ROOTED CUTTINGS CLEAN, HEALTHY STOCK FROM SAND AND SOIL per 100 1000 Enchantress \$ 3.50 \$ 34.00 Queen 2.50 20.00 Lawson 2.00 15.00 Wolcott 2.00 15.00 Queen Louise 2.00 15.00 Genevieve Lord 1.25 10.00 Floriana 1.50 12.50 Fiancee 1.25 10.00 Careful packing. Stock guaranteed satisfactory in every way.

ROBERT C. PYE, NYACK N. Y.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

ROOTED CUTTINGS

Per 100 Wm. Duckham, \$3.00 Black Hawk, 1.50 Appleton, 1.50 Cremona, 1.50 Dazzler, 2.00 Glory of Pacific, 1.50 Lady Fitzwygram, 1.50 Bonnafont, 1.50 Maud Dean, 1.75

CARNATIONS

ROOTED CUTTINGS

Prosperity, \$2.00 Maceo, 2.00 Queen Louise, 1.50 Gov. Wolcott, 1.50 May Naylor, 1.50 Joost, 1.25 Eldorado, 1.25 Bradl, 2.00 Enchantress, 3.50 Scott, 1.25

Grafted Bride and Bridesmaid Roses, \$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR Southport, Conn.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS CARNATIONS

Flamingo, \$8.00 Estelle, 2.00 Prosperity, 2.00 Boston Market, 1.50 Wolcott, 1.50 Crane, 1.50 Hill, 1.00

Viola, Princess Wales, \$1.00 Vinca Variegata, \$1.00 Chrysanthemum, Niveus, Robinson, Mrs. J. Jones, Polly Rose, White Bonnafont, M. Bonnafont, Omega, Golden Wedding, Golden Beauty, W. K. Shaw, V. Morel and B. K. Hawk, 1.50 Strong stock. Satisfaction guaranteed. Special prices on large quantities. Cash.

SMITH & GANNETT, Geneva, N. Y.

Mention the Florists' Exchange when writing.

Rooted Cuttings

For Immediate Delivery

The Queen, best white, \$2.25 per 100 Mrs. Patten, best variegated, 4.00 Red Lawson, best red, 10.00 Pink Lawson, best pink, 2.50 White Lawson, fancy white, 6.00 Unrooted cuttings, one half.

HENRY EICHHOLZ, Waynesboro, Pa.

Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

Good clean stock, well rooted. Lawson 1.25 per 100 Queen Louise 1.25 Gov. Roosevelt 1.50 Lorna 1.25 White Cloud 1.25 Norway 1.25

Will exchange for 2 or 3 inch pot Geraniums, Stocks, Verbenas, Feverfew. Or let us know what you have for exchange.

STAFFORD FLORAL CO., Stafford Springs, Conn.

Mention the Florists' Exchange when writing.

The Florists' Exchange

has a large circulation; we believe the largest of any trade paper in our class; built up and held by offering a periodical the best of its kind. Former and present advertisers know these facts. An advertiser never wastes his money when he advertises in our columns. Prospective advertisers will be thoroughly convinced of their truth, after giving us a Fair Trial.

CARNATIONS

Rooted Cuttings From flowering stems only. At stock

Mrs. M. A. Patten, per 100 \$5.00 per 1000 \$50.00 Flamingo, 5.00 Enchantress, 3.50 Boston Market, 3.00 J. H. Manley, 3.00 Fair Maid, 2.50 Harry Penn, 2.50 Mrs. P. W. Lawson, 2.50 Gov. Wolcott, 2.50 HENRY A. STEVENS CO., East St., Dedham, Mass. Mention the Florists' Exchange when writing.

I TELL YOU HOW

To color white carnations green for \$1.00. 10c. will color 3000.

GILBERT, Florist, Plainville, Conn.

Mention the Florists' Exchange when writing.

FINE CARNATIONS

BREAD AND BUTTER VARIETIES

Queen Louise, and Genevieve Lord, Rooted Cuttings \$1.00 per 100; 2 1/2 inch pots, \$2.50 per 100. Mrs. Fisher, 2 1/2 inch, for Summer bloom, \$2.50 per 100. Rooted cuttings, \$1.00 per 100. We will have a fine lot of Salvia, Clara Bedman, ready in a week. 8-edings, \$1.00 per 100. Cash with order.

WM. KEIR, Pikesville, Md.

Mention the Florists' Exchange when writing.

PROSPECTOR

RED SPORT FROM MACEO

Colorful to Estelle, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market, producing more blooms to the square foot than any variety now grown. It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz. Easy grower, free from disease, and like its parent, can be planted close, as there is no surprise green, every shoot producing a flower. We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

COME AND SEE THE STOCK GROWING

H. W. FIELD, Northampton, Mass.

Mention the Florists' Exchange when writing.

Rooted CARNATIONS Fine healthy Stock

Ready now. Orders booked for future delivery. White Lawson (5000 ready now) \$7.00 \$80.00 Lady Bountiful 8.00 50.00 Mrs. M. A. Patten 8.00 50.00 Nelson Fisher 7.00 50.00 Daheim 8.00 50.00 Flamingo 8.00 50.00 Enchantress 3.50 30.00 Boston Market 2.50 20.00 The Queen 2.50 20.00 Mrs. P. W. Lawson 2.00 15.00 Gen. Maceo 2.00 15.00 Morning Glory 2.00 15.00 Mrs. G. M. Bradl 3.00 25.00 Melba 1.50 12.00 Queen Louise 1.50 12.00 White Cloud 1.50 12.00 List of other varieties on application.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as desired. Bride, Bridesmaid, Golden Gate, from 2 1/2 inch pots, \$12.00 per 100. Killarney, \$16.00 per 100; Franz Deegen, from 2 1/2 inch pots, \$15.00 per 100. OWN ROOT. FINE STOCK. Bride, Bridesmaid, Golden Gate, \$4.00 per 100; \$38.00 per 1000.

GERANIUMS

Double and single varieties. 100 1000 Strong pot plants \$3.00 \$25.00 Strong rooted cuttings 2.00 15.00

VERBENAS

Best Mammoths, rooted cuttings, \$1.00 \$8.00

CHRYSANTHEMUMS

ROOTED CUTTINGS

Send for catalogue for varieties and prices.

MISCELLANEOUS

Ageratum, Cope's Pet, White Cap, 100 1000 P. Pauline, S. Gurney, L. Bonnet, \$1.00 \$8.00 Achyranthus, four sorts, 1.00 8.00 Cannas, dry roots, named varieties, 2.00 18.00 Coleus, best bedding and fancy sorts, 1.00 8.00 Cupressus, double and single, 1.25 10.00 Fuchsia, double and single, 2.00 18.00 Feverfew, double white, 1.50 12.00 Heliotrope, light and dark, 1.25 10.00 Impatiens Sultanii, 2.00 15.00 Moon Vine, true white, 2.00 15.00 Salvia, Splendens and Bedman, 1.25 10.00 Salvia, new early flowering sorts, 1.50 12.00 SMILAX, 2 1/2 in., \$2.50 per 100; \$20.00 per 1000; 3 in., \$3.00 per 100. ASPARAGUS SPRENGERI, 3 in. pots, \$8.00 per 100; 3 1/2 in., \$9.00 per 100.

WOOD BROS., Fishkill, N. Y.

Mention the Florists' Exchange when writing.

Contents.

Table with 2 columns: Article Title and Page Number. Includes 'Among the Growers', 'A Plea for the Hardy Border', 'Apprenticeship', etc.

LIST OF ADVERTISERS

Table listing various florists and nurseries such as 'Acheson L. W.', 'Allen J. K.', 'Amthor E. C.', 'Anderson & Christen', etc.

Table listing florists and nurseries in the middle column, including 'Oak Park Nurs.', 'Niessen Leo', 'Onwerker P.', etc.

INDEX TO STOCK ADVERTISED

Table listing various plant species and their prices, categorized under 'PLANTS, SEEDS, BULBS, FLOWERS'.

New York.

The Week's News.

Lent begins next Wednesday, and the social season is practically over for this year. Whether the flower business will suffer much on that account remains to be seen...

Indianapolis.

The State Florists' Association, of Indiana, will hold its monthly meeting Tuesday evening, March 7, at the State House.

The E. G. Hill Company is shipping to Indianapolis, Rosalind Orr English roses with 3-foot stems.

The debut of Newton Booth Tarkington's new play, "The Gentleman from Indiana," at English's Opera House, created such a large demand for flowers...

A. L. Miller has contracted with Lord & Burnham Company to build two more houses, each 16 1/2 x 100 feet long...

Edgar McConnell, florist, Sharon, Pa., was in town this week. Mr. McConnell informs us he has disposed of his business...

Ford Bros., wholesale florists, 111 West Thirtieth street, have leased the store at 48 West Twenty-eighth street...

At the next meeting of the New York Florists' Club, which will take place on Monday, March 13, roses will be the chief attraction.

A petition in bankruptcy has been filed against Sigmund Geller, dealer in florists' supplies at 103 West Twenty-eighth street...

Louis Gudinchet, a French landscape gardener, attempted suicide by shooting himself last Friday at the Ivy Leaf Hotel...

CHANGES IN BUSINESS.

ALBANY, N. Y.—The firm of Whittle & Riggs has been incorporated, capital, \$2,000.

EGG HARBOR CITY, N. J.—The Egg Harbor City Cut Flower Company, Lewis K. Nagy, manager, has started in business here.

PAXTON, ILL.—Andrew Peterson has sold his establishment to Messrs. Addams, Morgan & Co. of Loda, who will take possession June 1.

MILWAUKEE, WIS.—The store of P. G. Lambros is in possession of the sheriff to satisfy a judgment of John Lambros of Chicago for \$1000.

Chrysanthemums

DR. ENGUEHARD

Rooted Cuttings, \$3.00 per 100. CASH, PLEASE.

J. HAUCK, 86 So. Grove Street,

EAST ORANGE, N. J. Mention the Florists' Exchange when writing.

business; capital, \$125,000. Incorporators: Wm. H. Carey, E. S. Cowles, C. C. Carrick, Jersey City.

Carl Jurgens, Jr., Newport, R. I., was in town Wednesday.

Herman Lips, of the Shady Hill Nursery Company, Boston, Mass., was also a visitor this week.

A thirty thousand gallon water tank will be built at the Asinus greenhouses, Closter, N. J., by Stevens & Sherman.

The Webster Floral Company seem to have a particularly fine lot of two-year-old tea and hybrid tea roses.

They say a ready sale for these is found when in bud and bloom. The rose seems never to go out of fashion.

Large stocks of colens, geraniums, and all other leading plants are now coming along. Their collection of geraniums is, as usual, complete; nearly all the new sorts are tried each year, and the result is a pretty complete collection.

Some nice Princess of Wales violets are now being out.

Thos. Kilvington has been cutting some fine carnations, and roses have been doing nicely during the past few weeks.

Mr. Kilvington has a select plant trade. He has handled a large number of azaleas already. Azaleas will not be in evidence around here at Easter, none of the growers running a house sufficiently cool.

City Gardener Duncan is at present superintending tree pruning operations throughout the city. Hamilton has well-planted streets and the care of so many trees is a matter of responsibility.

The Horticultural Society is making an effort to get the Provincial Fruit and Honey Show here next Fall: it is the intention to incorporate flowers with it, the same as was done at Toronto the past Fall.

GREENVILLE, O.—The seed store of Mace & Mansfield was damaged in a general conflagration here last Sunday night, which destroyed property to the amount of about \$125,000.

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Chicago.

Weather conditions prevailing are very Spring-like and have made a marked improvement on trade, both local and shipping.

The new firm of Jensen & Deloma reports stock in fine condition. This firm will do a general cut flower business, and will handle considerable quantities of rooted cuttings.

C. M. Dickinson, manager of E. H. Hunt's, has been absent from his office for several weeks on account of sickness. Richard Mansfield, the actor, has rented the bachelor apartments of George W. Wienhoeber, at 413 Elm street, for a term of three years.

E. A. Asmus, formerly manager of E. A. Asmus Company, 1680 Evanson avenue, has accepted a position in Vaughan's Seed Store.

Mrs. Fred Stollery has been confined to the house for the past week; her place on the market has been in care of her sister, Miss Folsom.

St. Louis.

J. Barnett, representing Reed & Keller, New York, and Martin Reutkauf, of H. Bayersdorfer & Co., Philadelphia, are making the rounds of the trade this week.

Governor Folk, of Missouri, has held up the report of the World's Fair Commission, complaining that too much money was spent for American Beauty roses and other cut flower decorations.

The local florists' club will hold its regular monthly meeting next Thursday afternoon in the rooms in Odd Fellows' Building, at 2 o'clock.

Six of the florist bowlers began the season on Monday night. Meinhardt was high with 445; Miller, second, and Fred Weber third.

ST. PATRICK.

SADDLE RIVER, N. J.—Secretary Esler, of the Florists' Hail Association had one of his annual misadventures a few days ago. A ladder slipped and let him down eight feet into a lot of boxes, sleighs, wagon wheels, etc.

Double Pink PETUNIA Fringed Berkshire

Strong grower, very free bloomer and a beautiful shade of pink—color of Bridemaid rose. I guarantee this Petunia to be as represented.

Cleveland.

Stock is selling slowly, bulbous flowers being especially hard to dispose of. In lieu of social functions, the auto show, which has held the attention of the lovers of the "whiz buggy" for the past week, has been no small factor in the disposal of cut flowers as souvenirs, many being bought for that purpose.

Preliminary plans for the organization of the forestry division of the Department of Parks were discussed at a recent meeting of the Board of Public Service. Later on, the division will be extended and enlarged.

Planting will begin as soon as the weather will permit. After this is started the council will be asked to pass ordinances regulating the planting of trees.

ST. PAUL, MINN.—Dr. R. Schiffman, the orchid specialist of this city, contemplates removing to Pasadena, Cal. The doctor will pay another visit to China this Winter.

Carnation Richmond Gem

Established in 2 1/2 in. pots, \$10.00 per 100. Will have other good varieties later.

ROSES

2 years old, in 2 1/2 in. pots. Geraniums, Heliotropes, Salvias, Ferns, Asparagus Plumosus, Asparagus Sprengeri, Chrysanthemums, Petunias,

The National Plant Co., Dayton, O.

ARAUCARIA EXCELSA

From \$1.25 to \$2.00 each. Kentia Belmoreana, from 50c. to \$5.00 each.

WM. A. BOCK, NO. CAMBRIDGE, MASS.

ORCHIDS

Arrived in fine condition. Cattleya Mendellii, Dendrobium Wardianum, Oncidium Tigrinum, Unguiculatum and Lelia Anceps.

LAGER & HURRELL, Summit, N. J.

KENTIA BELMOREANA

Fine clean stock, in 4 in. pots, large enough for 5 in. 25c. each; 2 1/2 in., nice for center of fern dishes, etc., 10c. each, \$9.00 per 100.

H. WESTON, Hempstead, N. Y.

Orchid Peat

FOR IMMEDIATE DELIVERY. Our special price on Rotted Peat expires March 1. Write at once. C. W. BROWNELL & CO., Orange Co., N.Y.

VIOLETS

Marie Louise, clean and healthy in every particular, \$5.00 per 100; \$45.00 per 1000. Cash with order W. J. CHINNICK, Trenton, N. J.

An Exceptional Opportunity

For \$1.00 I will send you, express or mail prepaid, 25 of our Cryptomeria Japonica from pots. Takes the place of Araucaria Excelsa.

E. I. RAWLINGS, QUAKERTOWN, PA.

Boston Ferns

Extra fine stock, out from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100.

L. H. FOSTER, 45 King St. DORCHESTER, MASS.

EMERSON C. McFADDEN

Wholesale Florist and Grower Specialties ASPARAGUS-SMILAX-ROSES Tel. 28 A SHORT HILLS, N. J.

ROBT. CRAIG & SON

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS Market and 49th Sts., PHILADELPHIA, PA.

More Bargains

500 Cyrtomium falcatum very fair plants 2 1/2 in. pots, if shifted at once will make fine stock. \$2.25 per 100, \$10.00 for the lot.

300 Pteris tremula extra fine plants, in 3 1/2 in. pots. These have had plenty of room and are full and bushy, 8 cents.

1500 Aspidium tussemense 3 in. pots. These new growth and are in prime condition, 6 cents. \$50.00 per 1000.

500 Adiantum cuneatum 2 1/2 in., strong, 5 cents. large plants, 5 in. pots, 20 cents. Foster ferns all sold. Cash Please.

R. G. HANFORD, Norwalk, Conn.

SCOTTII

The Most Graceful Nephrolepis Known.

Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced.

Consult any grower who has bought Scottii and he will tell you that it is as far ahead of the Boston as that variety is ahead of all other introductions.

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

BRANCH: E. 45th St. and Rutland Road, Flatbush. TELEPHONE, 1207 WILLIAMSBURG.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDII

The Most Magnificent Tree Fern in Cultivation. Extra Large Specimens. 12 in. pots \$15.00 each; \$25.00 per pair

10 in. pots 5.00 each; 9.50 per pair 6 in. pots 2.75 each; 32.00 per doz.

ANDERSON & CHRISTENSEN,

JOSEPH HEACOCK WYNCOTE PA.

KENTIA BELMOREANA AND KENTIA FORSTERIANA

Mention the Florists' Exchange when writing.

A Few Good Things You Want

Kentias. As fine a lot of single and made up plants as ever grown, in 4-in., 5-in., 6-in., 7-in. and 8-in. pots, at 20c, 35c, 75c, \$1.50 to \$3.00 each.

Asparagus Plumosus, 2 and 3 in., \$4.00 and \$3.00 per 100. Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.

Geraniums, Jean Vland, S. A. Nutt, Castellane, John Doyle, Perkins. Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100.

Unrooted Cuttings of Carnations. The best and cheapest way to buy them. Queen Louise, Portia, Crocker, Goodenough, 50c. per 100. Lawson, \$1.50 per 100.

Vicia Var. 2 in., \$2.00 per 100. Gladiolus Bulbs, fine mixture, 75c. per 100, \$8.00 per 1000. German Ivy, 2 in., \$2.50 per 100. Cash with order

GEO. M. EMMANS, Newton, N. J.

PALMS AND FERNS

Pieroni and Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; 5 in., \$25.00 per 100; 6 in., \$40.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward.

JOHN BADER, Troy Hill, Allegheny City Pa.

Mention the Florists' Exchange when writing.

EASTER PLANTS A SPECIALTY

So many people inquire for catalogue and ask for prices; I print no catalogue, and to save correspondence, I give the following prices for the next three weeks. This is the lowest cost price for 3 weeks only.

GODFREY ASCHMANN, Philadelphia, Pa.

Wholesale Grower and Importer of Pot Plants. Mention the Florists' Exchange when writing.

ROSES

CARNATIONS and
CHRYSANTHEMUMS

Write For Prices

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

Headquarters

for

KILLARNEY

SIEBRECHT & SON

Rose Hill Nurseries
New Rochelle, N. Y.

Mention the Florists' Exchange when writing.

ROSE STOCK

2000 Grafted Kaiserin. \$15 per 100,
\$120 per 1000.

1000 Grafted President Carnot. \$15
per 100, \$120 per 1000.

2000 Kaiserin, own roots. \$5 per
100, \$45 per 1000.

FIRST CLASS STOCK.

A. N. PIERSON, Cromwell, Ct.

Mention the Florists' Exchange when writing.

ROSES

Pot up now for Spring Sales.

White and Pink, Mme. Cochet, Clothilde Souper
and Crimson Rambler, Field Stock, \$10.00 per 100.
Philadelphia Rambler, 16c. See Shrubs, Vines,
etc., advertised in this issue. Cash.

BENJ. CONNELL, West Grove, Pa.
Mention the Florists' Exchange when writing.

POTTED ROSES

A sure thing for Easter and Spring trade. I offer
150 of the best varieties, all on own roots, two and
three years old, from 3 in. to 8 in. pots, or open
field. State your wants and I will give you lowest
prices, or send \$1.00 for samples.

Latania Borbonica, from 5 in. pots, \$2.50 per
doz. Small Ferns, in mixture, \$4.00 per 100. All
kinds of bedding plants.

N. STUDER, Anacostia, D. C.
Mention the Florists' Exchange when writing.

BRIDE AND 'MAID

Strong 2, 3 and 4 eye cuttings, nothing smaller
than two eye, rooted and ready for immediate
delivery. \$1.50 per 100; \$12.50 per 1000.

Now booking orders for Spring delivery, out of
2 1/2 in., \$3.00 per 100; \$25.00 per 1000. Out of 3 in.,
\$5.00 per 100; \$45.00 per 1000. Write for sample.

GEO. E. CAMPBELL, Flourown, Penna.
Montgomery Co.

Mention the Florists' Exchange when writing.

Manetti Stocks

Just received in splendid condition.

No. 1, 5-10 mm., \$10.00 per 1000;
\$95.00 per 10,000.

No. 2, 3-5 mm., \$7.50 per 1000.

JACKSON & PERKINS CO.
NEWARK, NEW YORK.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUM CUTTINGS

Dr. Enguehard, Cheltonii, Mrs. C. J. Salter, Mrs
T. W. Pickett, 2 in. pots, \$9.00 per 100. W. Duck-
ham, Goldmine. R. C. \$4.00; 2 in. pots \$5.00 per 100

Alice Byron A. J. Balfour
Mutua Friend Mrs. Chamberlain
Nellie Pickett Mrs. Carrington Yellow Jones
Merry Christmas Mrs. Coombes Yellow Eaton
2 in. pots, \$1.00 per 100. R. C. \$3.00 per 100.

Glory of the Pacific Black Hawk Appleton
Helen Bloodgood Maud Dean Mrs. J. Jones
Mrs. J. G. Whiddin Pres. Smith G. S. Kalb
Marion Henderson Pink Ivory Bergman
White Bonafant The Harriot W. Ivory
Mrs. Henry Robin- Intensity Eaton
son Polly Rose McArthur
Golden Wedding Halliday
W. H. Lincoln Bonnafant

2 in. pots, \$3.00 per 100; R. C. \$2.00 per 100. Not
less than 5 of a kind at same rate.

CARNATION CUTTINGS

QUEEN LOUISE, F. Joost, Challenger,
\$1.50 per 100, \$12.50 per 1000; Boston Mar-
ket, Mrs. T. W. Lawson, Prosperity, Fair
Maid, \$2.00 per 100, \$15.00 per 1000; Harry
Fenn, Harlowarden, \$2.50 per 100, \$20.00 per
1000; Enchantress, \$3.00 per 100, \$25.00 per 1000;
Mrs. Patten, \$5.00 per 100, \$45.00 per 1000. 250 at
1000 rate.

Boston Ferns, from benches, good for 5
in., 6 in. or 7 in. pots, 25c.,
35c. and 50c.

JAMES E. BEACH

2019 Park Avenue, BRIDGEPORT, CONN.

Mention the Florists' Exchange when writing.

60,000 Grafted Rose Plants

We are now grafting on English
Manetti the above amount of all selected
flowering wood. NO BLIND wood used
at all. We offer for sale, delivery about
April 1st, in 2 1/2-inch pots, thoroughly
hardened off and ready to shift into
3 1/2-inch, the following:

	Per 100
Bride	\$10.00
Bridesmaid	10.00
La Detroit	12.00
Gen. MacArthur	12.00
Liberty	12.00

ROOTED CUTTINGS—Ready Now.

	Per 100
Bride, Bridesmaid	\$1.50
Chatenay	1.50
Liberty	2.50
Perle	2.50

CARNATIONS

	Per 1000
Gov. Wolcott	\$12.50
White Cloud	12.50
Norway	12.50
Lawson	12.50
Morning Glory	12.50
Joost	25.00
Enchantress	25.00
Flamingo	50.00
Crusader	40.00
Eatelle	25.00
America	12.50
Craze	12.50
Prosperity	12.50
Gaiety	15.00

All Plants Shipped from Hinsdale.

BASSETT & WASHBURN
Greenhouses: HINSDALE, ILL.

STORE:

76 Wabash Ave., CHICAGO, ILL.

Mention the Florists' Exchange when writing.

READY NOW 2,000 HARRISII EASTER LILIES

1 1/2 to 4 ft. high, with fine foliage.

10 cents per bud or flower, in pot or cut.

CHRISTIAN DEHN

178-80 Beekman St., Saratoga Sp'gs, N.Y.
Mention the Florists' Exchange when writing.

CYCLAMEN

Once transplanted
ready March 1. Seed
of only selected
flowers and choicest stock; none better. \$2.00
per 100; \$18.00 per 1000.

C. WINTERICH, Defiance, Ohio
Mention the Florists' Exchange when writing.

SHAMROCK

Something new! From cemetery of Down,
patrick in Ireland. Plants from 2 1/2 in. pots
\$4.00 per 100; \$35.00 per 1000. 250 at 1000 rate.
Cash with order. Order early, as stock is limited.
J. D. HARCOURT'S SON, WAPPINGERS FALLS, N.Y.
Mention the Florists' Exchange when writing.

Alternanthera, Aurea Nina, yellow,
Rosea Nina, red and
Tricolor, dark brown.

Coleus, Golden Bedder, Best Yellow Verschaf-
telii, Red and good mixture of best
colored varieties for hanging-baskets, window
boxes and vases. 80 cts. per 100, \$5.00 per 1000.
Cash with order or satisfactory references.

Baur Floral Co., Erie, Penn.
Mention the Florists' Exchange when writing.

Wm. Duckham } strong 2 1/2-inch pot plants
Dr. Enguehard } \$4.00 per 100; \$30.00 per
1000.

HENRY EICHHOLZ, Waynesboro, Pa.
Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Merstham Yellow, White Coombes, Emily Mil-
ham, Valerie Greenham, Mrs. H. A. Allen, and
all other novelties 50c. each; \$5.00 per doz.
Mrs. W. Duckham, the cup winner, 75c. each; \$7.50
per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUM BRIGHTHURST

The best pink for single stem pot plants. A
rival to Merza, having the same dwarf, robust
habit, but in color, a clear, soft rose pink and of
excellent substance. Equally valuable as a
Commercial or Exhibition flower. Extra
strong stock ready now.

This and our other introductions of the year
50c. each; \$5.00 per doz.; \$35.00 per 1000.

Remember we offer the BEST FOR-
EIGN NOVELTIES and
Standard Varieties. Send for 1905 Catalogue.

NATHAN SMITH & SON, - Adrian, Mich.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUM

WM. DUCKHAM

Rooted Cuttings, \$4.00 per 100.
Stock Plants, \$15.00 per 100.
From 2 1/2 in. pots, \$6.00 per 100.

CARNATIONS

Rooted Cuttings, White Lawson and Mrs. M. A.
Patten, \$6.00 for 100.

GALAX, green or bronze, 75c. per 1000.

FLORISTS' WIRE, No. 22 or 24,
cut 9 or 12 inches, 90c. per box.

C. L. HOWE
DOVER, N. H.
Mention the Florists' Exchange when writing.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery
pink, thus producing a combination that is exceedingly effective
either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will
prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	GRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories

NATICK, MASS.

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

J. K. ALLEN

Wholesale Commission Dealer in Cut Flowers
Telephone, 106 W. 28 St., NEW YORK
Open at 6 A. M.
Assignments Solicited.
Prompt Payments.
Mention the Florists' Exchange when writing.

C. BONNET & G. H. BLAKE

Wholesale Florists
6 Boerum Place, BROOKLYN, N. Y.
Telephone 4638 Main.
Assignments solicited. Out-of-town orders carefully attended to. Give us a trial.
Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.
New York
Columbian Building
Open every Morning at Six o'clock for the Sale of Cut Flowers
Full Space for advertising purposes to Rent
J. DONALDSON, Secretary
Mention the Florists' Exchange when writing.

JOSEPH S. FENRICH

Wholesale Florist
Consignments Solicited
8 West 30th Street, New York City
Telephone No. 325 Madison Square.

GROWERS, ATTENTION!

Always ready to receive Fine Stock
WILLIAM H. GUNTHER
30 West 29th Street
Telephone, 551 MADISON SQ. NEW YORK
Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

"VICTORY"
to be disseminated 1906. Also a complete line of choicest flowers.
ALEX. J. GUTTMAN, Wholesale Florist
52 West 29th Street, New York
Telephone, 1684-1685 Madison Square
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JAMES A. HAMMOND

Commission Dealer in
CUT FLOWERS
Consignments Solicited
113 W. 30th St., New York
Telephone, 854 Madison Square

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Wholesale Florists
And Dealers in FLORISTS' SUPPLIES
108 Livingston Street
Phone, 3660-3661 Main BROOKLYN, N. Y.

JULIUS LANG

Wholesale Florist
53 WEST 30th STREET
NEW YORK
Assignments Solicited. Telephone, 280 Madison Sq.

ALFRED H. LANGJAHR

All Choice Cut Flowers in Season
55 West 28th St., New York
Telephone 3924 Madison Square.
ESTABLISHED 1891 BUY FROM ME
SHIP TO TRY
Mention the Florists' Exchange when writing.

JAMES McMANUS Telephone 759
Madison Square
50 W. 30th St., New York
Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & HUGHES

Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Assignments Solicited.
Telephone: 8461 Madison Square

FRANK H. TRAENDLY & CHARLES SCHENCK

Wholesale Florists
38 WEST 28th STREET, NEW YORK
AND CUT FLOWER EXCHANGE
Telephones: 798 and 799 MADISON SQUARE
CONSIGNMENTS SOLICITED
Mention the Florists' Exchange when writing.

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46 West 29th Street, New York
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Mention the Florists' Exchange when writing.

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TELEPHONE: 1905 MADISON SQUARE
Mention the Florists' Exchange when writing.

YOUNG & NUGENT

WHOLESALE FLORISTS
42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY

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57 West 28th Street, NEW YORK

Wholesale Prices of Cut Flowers, New York, March 3, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	40.00 to 60.00	Int'r grades, all colors.....	.75 to 1.00
	" extra	25.00 to 35.00	White.....	1.00 to 2.00
	" No. 1	10.00 to 20.00	STANDARD Pink.....	1.00 to 2.00
	" No. 2	5.00 to 8.00	VARIETIES Red.....	1.00 to 2.00
	" No. 3	2.00 to 4.00	Yel. & Var.....	1.00 to 2.00
	Bride, 'Maid, fancy—spe'l	10.00 to 12.00	*FANCY—White.....	2.00 to 3.00
	" extra	6.00 to 8.00	(*The highest Pink.....	2.00 to 3.00
	" No. 1	4.00 to 5.00	grades of Red.....	2.00 to 3.00
	" No. 2	2.00 to 3.00	standard var.) Yel. & Var.	2.00 to 3.00
	Golden Gate.....	3.00 to 12.00	(NOVELTIES.....	3.00 to 6.00
	Liberty.....	5.00 to 50.00	LILY OF THE VALLEY.....	1.00 to 2.00
	Meteor.....	1.00 to 8.00	MONONETTE, ordinary.....	2.00 to 4.00
	Mme. Abel Chateau.....	2.00 to 10.00	fancy.....	4.00 to 6.00
	ADANTUM.....	.50 to 1.75	NARGISSEE, Paper White.....	.50 to 1.00
	CROWANUM.....	to 1.50	" Ordinary Yellow.....	.50 to 1.00
	ASPARAGUS.....	25.00 to 50.00	" Double Yellow.....	1.00 to 2.00
	" Sprenger, bunches	15.00 to 35.00	PANSIEE, per dozen bunches.....	to .25
	CALLAS.....	6.00 to 8.00	ROMAN HYACINTHE.....	1.00 to 2.00
	CATTLEYS.....	50.00 to 60.00	SMILAX.....	12.00 to 20.00
	CYPERIDIUMS.....	6.00 to 10.00	STOCKS, per bunch.....	.10 to .25
	DAISIES.....	.50 to 1.50	SWEET PEAS.....	.75 to 1.00
	FREESIAs, per bunch.....	.10 to .25	TULIPS.....	1.00 to 2.00
	LILAC, per bunch.....	.75 to 1.00	VIOLETS.....	.15 to .35
	LILIES.....	4.00 to 8.00	" specials.....	.40 to .50

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Philadelphia.

News of the Week.
With higher temperature and more sunshine the faces of those in the trade look brighter; and while we may yet be a long way from real Spring weather, everyone is more hopeful; consequently, business goes better.

The largest ball of the season, the City Troop hall, was held Wednesday night. The Wm. Graham Company had the decorations. The colors, being in white, yellow and brown, all flowers and lights were in unison. There were many dinners given before the ball, which gave lots of work to the retail stores.

The second assembly ball took place at the Bellevue-Stratford Hotel on Friday. The decorations were done by Habermehl's Sons, and were, as usual, very effective, in foliage and flowering plants, with a large quantity of cut flowers on the supper tables.

Wm. K. Harris was taken ill on February 22; he has a bad attack of la grippe and some stomach trouble with it. He was slightly better Wednesday.

Edwin Lonsdale has recovered from his recent illness, and is on duty again. The Florists' Club will have exhibits of new roses at the meeting on Tuesday next; a good attendance is looked for.
DAVID RUST.

Cincinnati.

News Notes.
We have another "green carnation" man in the field—Fred Gear, the leading florist "over the Rhine," assisted by his understudy, George Tromey. The green stuff they use will do the business for St. Patrick's Day all right. So you need not be afraid to buy from either Edwards or Gear. Edwards sells the powder; Gear, the liquid.

Last week Herman H. Ritter, of Dayton, O., and Wm. Reeser, of Urbana, O., were in the city attending the annual reunion of the Scottish Rite Masons. But business was so good that Mr. Ritter was called home before the Shrine meeting took place.

The weather is moderating, and all eyes are centered on the Ohio River, where the ice is momentarily expected to let go. Much fear is yet felt for all shipping interests.

Don't forget the carnation meeting of the Cincinnati Florists' Society, which occurs March 11 at 2 p. m., at the club rooms in the Jabez Elliott Flower Market. Come yourself, if you can; but, if you can't, be sure and send an exhibit of carnations.
E. G. GILLETT.

AURORA, ILL.—The Aurora Greenhouse Company has secured the contract to decorate the new electric park of the Joliet & Aurora road at Plainfield. The plan of decoration is most elaborate, and will require not less than 5,000 bedding plants, including 2,000 geraniums.

A. L. YOUNG & CO.

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Consignments solicited. Prompt settlements



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Luther Burbank—An Impression.

To the horticulturist in general, the name "Burbank" has a great deal of meaning, but to one who knows Mr. Burbank, and knows the story of his life, and his work, and is in addition a lover of Nature, having an appreciation of the power which this man exerts over plant life, the name makes a deeper impression and carries an added respect and admiration.

It was my good fortune to meet Mr. Burbank, and my visit to Santa Rosa and his home I look back upon as the most interesting day of my trip to the State of California, and, as a lover of plant life, the most interesting day I have ever spent.

January is, perhaps, not the ideal month to visit such a place as the Burbank establishment, but even so there is so much to be seen that is new and interesting, and so much to be learned that the most unfavorable day in the year would be bright.

A great deal has been written by competent men on the subject of Burbank and his work, yet the half has not been told, and never could be told, unless volumes were published, dealing exclusively with the work which he has carried on. The diversity of subjects and the magnitude of his experiments are beyond the comprehension of the ordinary individual, and to only a few is it given to really know the man and the motives which underlie his life work.

Luther Burbank was born on March 7, 1849, in Lancaster, Worcester County, Mass., and, as a boy, his start in life was not auspicious.

By nature he was frail, and his circumstances obliged him to earn his own living while still a boy. The Ames plow factory gave him employment, and while in the employ of this concern, at the nominal wage of 50 cents per day, he showed the inventive spirit which he has used throughout his entire career in his work on plant life. The invention of a wood-turning machine made an opening for him, and yet he chose the life among plants, which he loved, rather than the indoor life and confinement, which an acceptance of the position offered him would have necessitated.

While working in this factory, as a boy, he carried on his early work on potatoes, his mother's garden being the scene of operations. From seedlings of the Early Rose variety came the potato which gave prominence to the originator; but California appealed to him, and he went West with his fortune, in the shape of ten Burbank potatoes. These he had reserved when he disposed of the variety to James J. H. Gregory, of Marblehead, Mass., for the sum of \$125. It is of interest to note that statistics show that the variety has produced crops to the value of \$20,000,000 since that time.

Hard work, physically, was an impossibility to Mr.

Burbank, owing to his frail constitution, and his first venture in Santa Rosa was selling trees. This gave him the sum of \$15, and he then rented a small piece of land in the vicinity. The trees were blue gum trees and they are to-day standing on McDonald avenue in Santa Rosa.

While working this small piece of land, a gentleman by the name of Marshall became interested in him and in the work he was doing, and loaned Mr. Bur-



LUTHER BURBANK.

bank the sum of \$200, which was used to increase the acreage of his farm, and to aid in his experimental work. For a short time, Mr. Burbank was employed in writing seedsmen's catalogues, and this work, in connection with collecting seeds of many of the native California plants, added to his income. The seeds which he collected were for shipment to Europe, where a large number of California native flowers were being grown.

The real start of Burbank's nursery came suddenly. Mr. Warren Dutton, a wealthy fruit man, came to

Mr. Burbank with a proposition. He wanted 20,000 prune trees within a year. To get these by ordinary methods in this space of time was an impossibility. The inventive power of the man came to the rescue, and after considering the matter over night he took the contract. By buying up all the almond stock in the market, and grafting on the prunes, he filled the order, which gave him his real start in the nursery business. The process of grafting the prune on to the almond stock was new, and entirely original with Mr. Burbank, and this showed the power of the man, who would dare attempt such a step without previous experiment. This daring to attempt new things has been the leading feature of his undertakings, and to it is due the success he has achieved.

A visitor, well pleased with the Burbank nursery, brought to him the New Zealand trade, and through Cecil Rhodes the fruits of Mr. Burbank's origination have found their way into South Africa, where the Burbank plum is widely grown for the London and other European markets. Through Mr. Burbank, then, American horticulture has invaded these distant countries, and the success in South Africa and New Zealand of the Burbank plum has been very marked.

Which line of Mr. Burbank's work has brought him the most prominence is hard to say. In the East, one would say the potato, but in this State the fruit industry owes more to him than it can ever repay. Potatoes were his early study, and he is still working on them. The feature of his potato experiments is the growing of seedlings in the greenhouse during the Winter, thus saving a year's time in every instance. New subjects in the potato line, of South American origin, are being used in his crosses, to infuse new vigor and to upbuild what might be called the food of the nations. The future will bring forth, from this base, potatoes which will be a decided improvement on anything which Mr. Burbank has yet produced. He is, however, not yet ready to place before the people these varieties, believing, as he does, that they are subject to still greater improvements, and that they have not yet reached the perfection which he believes to be possible. Inquiries as to these new varieties Mr. Burbank does not desire. The field of experiment is too wide, and the answering of the inquiries would entail so much work that it would needlessly interfere with that which he is carrying on.

Then, in the fruit line, the work which he is doing is of incalculable value. Plums, prunes, apricots, pears, quinces and the new cross between the plum and the apricot, which is called the "plumcot," divide honors, and he is working wonders with them all. He dares to take liberties with Nature, and the results are often new species, as in the case of the plumcot where we have something like both parents, and yet distinct from either, and we have a new fruit which possesses commercial possibility, which will, in the future, add to the revenue of the greatest fruit-growing district of the world.

The best paying crop in Southern California is, according to general opinion, the English walnut, and this has received a merited share of Mr. Burbank's attention. The result of this study and experiment is a hybrid walnut, showing an improvement in the size and the character of the nut produced, and a nut that is superior in texture and flavor, and one with practically no color to the meat, and no tannin to detract from its value as a food. The very growers of this nut in California do not know that their favorite crop has been a subject of study, and those who are the first to learn of it and take advantage of the im-



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CHRYSANTHEMUMS

Ready from Soil. All Good Stock, in Fine Condition

White		White		Pink		Yellow		Yellow	
Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000
White Mayflower	\$2.00	White Mayflower	\$2.00	Cobbolt, new	\$3.00	Monrovia	\$2.00	Wm. Thirkell, new	\$3.00
Ivory	2.00	Ivory	2.00	J. A. Balfour, new	3.00	Yellow Eaton	2.50	W. T. Pickett, new	3.00
Jerome Jones	2.00	Jerome Jones	2.00	Perrin	2.00	Major Bonnafon	2.00	Kimberly, new	3.00
Duckham	3.00	Pink		Marie Liger	2.00	Col. D. Appleton	2.00	H. S. Valis, new	3.00
Pacific	2.00	Lavender Queen	2.00	Richardson	2.00	Yellow Jones	2.00	Omega	2.00
Pink Ivory	2.00	Richardson	2.00	Yellow Mayflower	2.00	Golden Beauty	2.00	Oakland	2.50
M. Newell	2.00	Murdock	2.00	Mourner	2.00	Golden Wedding	2.50	M. Paul Labbie	2.50
J. K. Shaw	2.00	Vivand-Morel	2.00					Black Hawk	2.50
		Yellow-October Sunshine	2.00						

Write for Prices on Chrysanthemums in Larger Quantities

CARNATIONS ALL IN FINE CONDITION WELL ROOTED

PINK.		RED.		WHITE.		CRIMSON.	
100	1000	100	1000	100	1000	100	1000
Mrs. T. W. Lawson	\$1.50	Estelle	2.50	Flora Hill	1.00	Harlowarden	2.00
Guardian Angel	1.00	Chicago	2.00	White Cloud	1.25		
LIGHT PINK.							
Enchantress	3.00						
Morning Glory	1.50						
Mrs. Higginbotham	1.25						

ROSES

Young Stock, ready to ship, out of 2 1/2 in. pots. Fine, Healthy Stock.

Per 100	1000	Per 100	1000
Bride	\$3.00	Golden Gate	\$3.00
Bridesmaid	3.00	Flme. Abel Chatenay	3.00
Meteor	4.00	Kaiserin	4.00

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CARNATIONS GOOD, STRONG CUTTINGS

100	1000
Hill	\$1.00
Lawson	1.75
White Lawson	5.00
Flamingo	6.00
Prosperity	2.00
Manley	2.00
Roosevelt	1.50
Apollo	1.50

CHAS. T. DARLING, Stony Brook, N. Y. Mention the Florists' Exchange when writing.

Strong Rooted Carnation Cuttings

Per 1000	Per 1000
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Lord	9.00
Lawson	12.00
Gov. Wolcott	12.00
Flora Hill	9.00
Boston Market	20.00

SOL GARLAND, Des Plaines, Ill. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS CARNATIONS

Per 100	Per 100
Enchantress	.33
Lawson	.20
Queen Louise	.20
May Naylor	.15
Florida	.15
Morning Glory	.15
Gov. Roosevelt	.15

JEWETT CITY GREENHOUSES, Jewett City, Conn. Mention the Florists' Exchange when writing.

ROOTED Carnation Cuttings

Good, clean stock, well rooted.

Per 100	Per 100
Lawson	\$1.00
Queen Louise	1.00
Gov. Roosevelt	1.25
Orna	1.00
White Cloud	\$1.00
Norway	1.00
Prosperity	1.25

Will exchange for 2 or 3 inch pot Geraniums, stocks, Verbenas, Feverfew. Or let us know what you have for exchange.

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Dr. Enguehard, Wm. H. Duckham, from 2 1/2 in. pots, at \$10.00 per 100; \$1.50 per doz.

Miss Marie Liger, Yellow Eaton, Ethelyn, Miss Alice Byron, from 2 1/2 in. pots, at \$4.00 per 100; \$5.00 per 1000.

General Assortment The following from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Rooted cuttings, \$2.00 per 100; \$15.00 per 1000.

WHITE.		PINK.		YELLOW.		RED.		BRONZE.	
Early-George S. Kalb	Polly Rose	Early-Glory of the Pacific		Early-Monrovia	J. E. Lager	Gullingfordit		Kate Broomhead	
Mid-Season-Miss Minnie Wanamaker		Mid-Season-Pink Ivory	J. K. Shaw, Adela	Mid-Season-G. Pitcher	Col. D. Appleton				
Ivory	Mrs. H. Robinson, Niveus, Queen	Mrs. Perrin, A. J. Balfour		Gold Mine	Golden Gate				
Late-Mrs. McArthur	Timothy Eaton, W. H. Chadwick	Late-Maud Dean	Lavender Queen, The Harriott	Late-Major Bonnafon	Mrs. Trener L. Park				

Grafted and Own Root Stock of the following varieties of

ROSES

IVORY.	Kaiserin Augusta Victoria
Bride	Souvenir du President
Bridesmaid	Carnot
Meteor	Golden Gate
Madame Hoste	Mrs. Pierpont Morgan
Franz Deegen	Madame Abel Chatenay

Grafted, \$15.00 per 100; \$120.00 per 1000; for A No. 1 stock; nothing else will be sent out.

The above varieties on their own roots, from 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.

Sunrise. On own roots, from 2 1/2 in. pots, \$8.00 per 100; April, May and June delivery.

American Beauty. Own roots, from 2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1000. 3 in. stock, \$12.00 per 100; \$100.00 per 1000 April, May and June delivery.

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Flamingo Nelson Fisher Crusader

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Rooted Cuttings, \$3.00 per doz.; \$15.00 per 100. From 2 in. pots, \$20.00 per 100.

Three Fine SNAPDRAGONS, Our GIANT PINK, a Grand WHITE and a Fine YELLOW

\$6.00 per \$100; \$50.00 per 1000.

The Fine New PINK ROSE LA DETROIT

2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1000.

The New Red GENERAL MACARTHUR

2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1000.

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Per 100	Per 100
Harlowarden	Flora Hill
crimson	Prosperity
Harry Penn	Gov. Wolcott
Enchantress	G. H. Crans
Air Maid	Challenger
Alpine Glow, very	T. W. Lawson
free	France Jost
Queen Louise	Wm. Scott
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Exceptionally healthy and well rooted	10 per cent. off by the thousand.

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AMERICAN BEAUTY, globular, dark pink; WM. DUCKHAM, DR. ENGUEHARD, \$4.00 per 100.

MERRY MONARCH, white and yellow; WILLOWBROOK, POLLY ROSE, PACIFIC, R. HALLIDAY, IVORY, ROBINSON, NELLIE POCKETT, BONNAFON, YELLOW EATON, LINCOLN, MAUD DEAN, MERRY CHRISTMAS, \$1.50 per 100; \$12.50 per 1000.

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7	3x 4x20	5.50
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1500 2 1/2 in. pots in crate, \$4.80	120 7 in. pots in crate, \$4.20	
1500 2 1/4 " " " 6.25	60 8 " " " 8.00	
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1000 3 " " " 5.00	48 9 in. pots in crate, \$3.60	
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500 4 " " " 4.50	24 12 " " " 4.80	
250 5 " " " 4.51	12 14 " " " 4.80	
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Seed pans, same price as pots. Send for price list of cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
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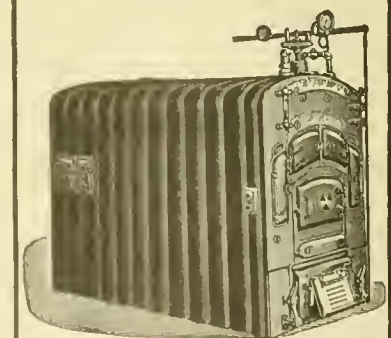
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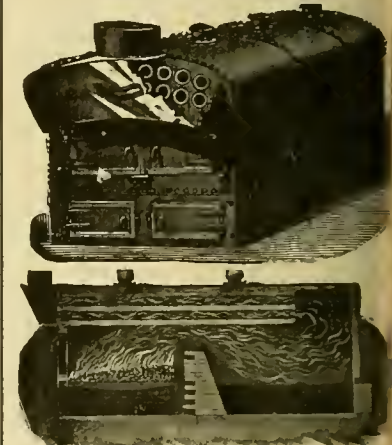
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Greenhouse Boiler
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Boilers made of the best of material, shell fire, sheet and heads of steel, water space all around (front, sides and back). Write for information.

Mention the Florists' Exchange when writing.

Evans Improved Challenge

Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.

Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, INO.

Mention the Florists' Exchange when writing.

SUMMER IN WINTER

BY USING
Standard Greenhouse Boilers

One cent gets our Catalogue
GIBLIN & CO., Utica, N. Y.

Mention the Florists' Exchange when writing.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St., NEW YORK

Mention the Florists' Exchange when writing.

New Advertisers

appear in each succeeding annual issue.

Why?
Because our Special Spring Edition is an unsurpassed Business Bringer! Because we have the experience and know how to present bot reading and advertising matter to make the former interesting to subscribers, the latter profitable to advertisers.

GREENHOUSE LUMBER

Now is the Time

TO SEND FOR OUR ESTIMATES and decide on your contemplated building work. An early order is early delivered, and early deliveries afford you much more time for painting and careful erecting. If you wait until later, there will be "others" who have waited too long, and everyone then wants their work "at once."

Our New Construction Sheet Mailed on Application. Plans and Estimates Freely Furnished on Request.

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

Mention the Florists' Exchange when writing.

CEMENT BENCHES

NIAGARA CEMENT & CONCRETE CO.
NORTH TONAWANDA, N. Y.

Mention the Florists' Exchange when writing.

Holds Glass Firmly
See the Point at PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 76 cts. postpaid.

HENRY A. DEER,
714 Chestnut St., Phila., Pa.

FULL SIZE
No. 2



Mention the Florists' Exchange when writing.

GLASS

For GREENHOUSES, GRAPERIES, HOTBEDS CONSERVATORIES, and all other purposes Get our figures before buying. Estimates freely given

N. COWEN'S SON, 392-94 W. Broadway, NEW YORK
Mention the Florists' Exchange when writing.

WATER DRAINED LAND IS MORE PRODUCTIVE

ROUND TILE

Earliest and easiest worked. Carries off surplus water; admits air to the soil. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.

Mention the Florists' Exchange when writing.

75,000 Square Feet Glass Surface

The above figures represent commercial heating contracts already signed for the season of 1905.

A SAMPLE COPY OF SOME OF THE LETTERS ON FILE AT MY OFFICE:

LYONS FARMS, N. J., Feb. 1st, 1905.
Mr. Wm. Lutton, Dear Sir:—I wish to state that I am well pleased with the heating of the two new nation houses, that you installed for me last summer, the boiler works splendidly, and is all that it is presented to be, I shall take great pleasure in recommending you to any persons contemplating heating work.
Yours very truly, Wm. G. MULLER.

An opportunity to estimate on your proposed heating or repair work will be to your interest.

M. H. LUTTON, Telephone 174 J, Bergen, West Side Ave. Station, Jersey City, N. J.
Eastern Agent for FURMAN and KROESCHELL BOILERS.
Mention the Florists' Exchange when writing.

"A \$ saved is a \$ earned"
You may save more than One dollar if you buy your

GREENHOUSE MATERIAL

of
FOLEY MANUFACTURING CO.
471 W. 22ND ST. CHICAGO

Woodwork, Hot-bed sash, Tennessee Red Cedar posts
Ventilating Apparatus, hardware specialties
Galvanized Screw eyes, Screw hooks, turnbuckles & wire

FREE ILLUSTRATED CATALOGUE !!!

Mention the Florists' Exchange when writing.

"Special" Greenhouse Putty



Made from pure linseed oil and kiln dried whiting, absolutely unadulterated. Works easier than others, therefore more readily applied. The Best Putty for

Quality, Durability and Economy

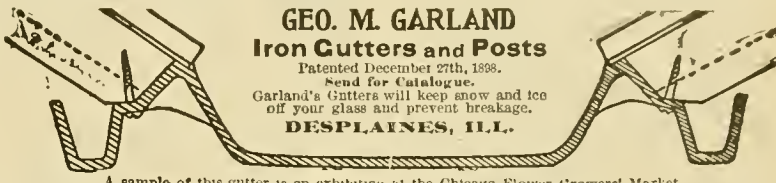
It costs a little more than other makes, but lasts longer. Try a sample lot and be convinced.

Write for price and particulars to

Lord & Burnham Company

New York Office, St. James Bldg., B'way @ 26th St.
General Office @ Works, Irvington-on-Hudson, N.Y.

Mention the Florists' Exchange when writing.



GEO. M. GARLAND Iron Gutters and Posts

Patented December 27th, 1898.

Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.

A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

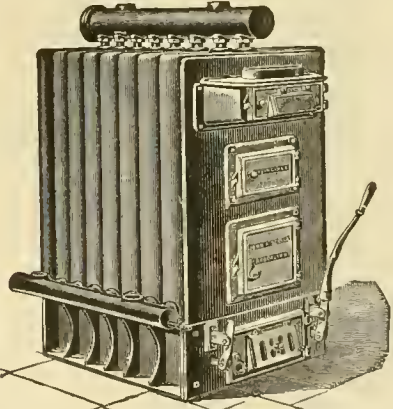
Mention the Florists' Exchange when writing.

EUREKA GREENHOUSES

Send for catalogue Get the best Greenhouse Material, Composition Posts

DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

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Scollay Invincible Boilers

FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 1/2 c. per foot.

Horticultural building of every description.

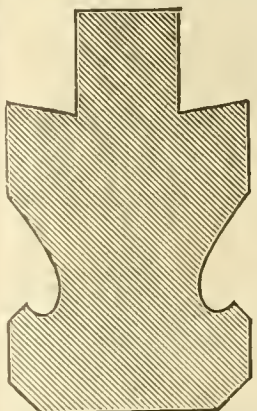
JOHN A. SCOLLAY

72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.

Established 42 Years

Mention the Florists' Exchange when writing.

GULF CYPRESS Greenhouse Material



Cut and Spliced Ready for Erection

Hot Bed Sash

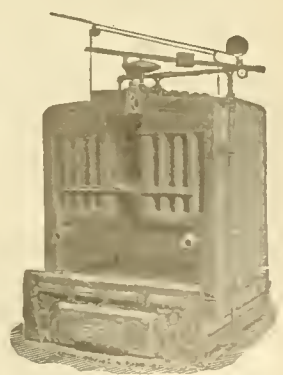
Pipe, Fittings, Ventilating Apparatus

GREENHOUSE GLASS

We furnish everything for Building

Heating Installed

Send for Prices and Catalogue



S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N.Y.

Mention the Florists' Exchange when writing.

KING CONSTRUCTION COMPANY

North Tonawanda, N. Y., and Toronto, Canada.

New Greenhouse Catalogue ready for distribution. Send for it.

Mention the Florists' Exchange when writing.

NICO=FUME

TOBACCO-PAPER INSECTICIDE BY FAR THE BEST.



FOR SALE BY SEEDSMEN

24 Sheets, 75c.; 144 Sheets, \$3.50; 288 Sheets, \$6.50 (only 2 1/2c. each).

PACKED IN FRICTION-TOP TINS.

Preventing Loss by Evaporation.

Mfg. by Kentucky Tobacco Product Co. LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

ALL NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural trailers. It is also taken by over 100 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowtham, Notts. Address

EDITORS OF THE "H. A."

Chilwell Nurseries, Lowtham, Notts

European Agents for THE AMERICAN CARNATION
Mention the Florists' Exchange when writing.

A. HERRMANN

Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES

FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK

OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.

WRITE FOR NEW CATALOGUE

Mention the Florists' Exchange when writing.

NICOTICIDE KILLS

Green Fly



Mr. J. A. Budlong, Chicago, March 11, 1904, says:

"We have been using Nicoticide on our whole place now for some time and find it the most satisfactory fumigant we have ever used. We heat entirely by steam, and paint it on the pipes when hot. This application works well and is certainly very effectual."

Thrips



THE TOBACCO WAREHOUSING & TRADING CO., LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

ASPARAGUS DECUMBENS, 3 in. pots, 750 per doz.; \$5.00 per 100.
ASPARAGUS SPRENGERI, 2 in. pots, \$2.00 per 100; \$15.00 per 1000; 500 at 1000 rate.
ASPARAGUS SPRENGERI, strong, 3 in., 750 per doz.; \$5.00 per 100.
CARNATIONS. Rooted cuttings. Write for prices and varieties.
OLENATHIS PANICULATA, 4 in., \$1.50 per doz.; \$10.00 per 100.
EUONYMUS, golden leaved, 2-year-old plants, \$1.50 per doz.; \$10.00 per 100.

C. EISELE, Philadelp. P.A.
11th & Jefferson Sts., PHILADELPHIA, PA

Mention the Florists' Exchange when writing.

Sphagnum Moss and Cedar Poles

Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.

H. K. AKERS, CHATSWORTH, N. J.

Mention the Florists' Exchange when writing.

USE KRICK'S FLORISTS' Immortelle Letters, Inscriptions, &c.

Highest Awards Wherever Exhibited



These Letters and Designs are made of the best Immortelles, wired on wooden frames, having holes drilled in them to insert tooth-picks by which they are fastened in the design. Give them a trial. You will find these Letters to be superior to any in the market.

1 1/2-inch Letters and Figures.....per 100, \$2.50
2-inch Letters and Figures..... " 2.50
2 1/2-inch Letters..... " 3.00

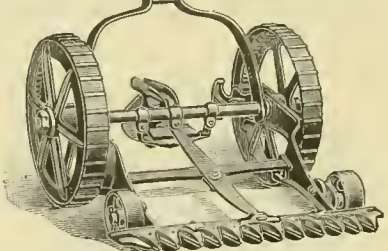
Add 10c. per 100 on 2 and 2 1/2 in. Letters if by mail.

W. C. KRICK, 1161-66 Brooklyn, N.Y.
Greene Ave.

Mention the Florists' Exchange when writing.

Clipper The MOWER

that will Kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealers for them. If they have not got them, below is the price: No. 1-12 in. Mower, \$5; No. 2-15 in. Mower, \$7; No. 3-18 in. Mower, \$7; No. 4-21 in. Mower, \$8. send draft, money order or reg. letter.

Mention the Florists' Exchange when writing.



Hitchings' NEW MOGUL BOILERS

For Hot Water or Steam
HOT WATER Radiation from 4,200 Square Feet and Up.
STEAM Radiation from 2,500 Square Feet and Up.

Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.

HITCHINGS & CO.
Horticultural Architects and Builders
233 Mercer St., NEW YORK.
ESTABLISHED 1844.

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WE DESIGN, MANUFACTURE AND ERECT
Galvanized Steel Patent U Bar Greenhouses
Flat Rafter Iron Framed Greenhouses
First-class Low-priced Cypress Greenhouses

PIERSON BOILERS FOR WATER AND STEAM

PIPE, FITTINGS and VALVES for Greenhouse Heating
VENTILATING APPARATUS, Self-Locking, Self-Oiling
Hot Bed Sash, Benches, Special Hand-made Putty

THE PIERSON-SEFTON CO., West Side Ave, South, JERSEY CITY, N. J.

Plans and Estimates Furnished for Complete Structures or Material only

Mention the Florists' Exchange when writing.

Greenhouse Material

of Louisiana Cypress and

OUR FACILITIES INCREASED
OUR GRADES INVARIABLY THE BEST



Hot Bed Sash

Washington Red Cedar

OUR PRICES RIGHT

Write for Catalogue and Estimate, when figuring on your new houses.

A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL
Mention the Florists' Exchange when writing.

H. BAYERSDORFER & CO.

Importers and Manufacturers of

FLORISTS' SUPPLIES

NOVELTIES for EASTER in large assortment including Stuffed Chickens, Ducks, Rabbits, Meadow Larks, and Full Size Bantam Roosters.

Twig Baskets, metal lined, several styles; Swan-Shaped Baskets; Fern Baskets, oblong, metal lined. Colored Foil.

50 to 56 North 4th Street, PHILADELPHIA, PA.

SEND FOR CATALOGUE
Mention the Florists' Exchange when writing.

THE FLORISTS' EXCHANGE

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

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

Vol. XIX, No. 10

NEW YORK, MARCH 11, 1905

One Dollar Per Year

Chrysanthemums

We have a fine stock of Chrysanthemums, now ready for delivery, of the following:

NOVELTIES OF LAST SEASON

DR. ENGUEHARD. This new pink chrysanthemum, offered by us last year, is the grandest commercial pink ever sent out. It is a large globular pink, an easy grower, good shipper, and unequalled by any other pink in its season.

WM. DUCKHAM. A mammoth incurved pink.

HENRY BARNES. Deep crimson-maroon.

LEILA FILKINS. A greatly improved Vivid and Morel. A grand commercial sort.

BEN WELLS. A monster drooping Japanese white.

F. A. COBBOLD. Deep pink. Very distinct.

CHELTONI. A yellow sport of Nellie Pockett.

S. T. WRIGHT. Deep velvety crimson. An enormous bloom.

GEN. HUTTON. Yellow. Magnificent for exhibition.

DONALD McLEOD. Bronze. Chief prize winner in this class.

W. R. CHURCH. A grand incurved crimson. A fine commercial variety.

Price of all the above sorts, \$8.00 per 100

Also other Leading Commercial

Monrovia. The best extra early yellow chrysanthemum. A money-maker. Ten to fifteen days earlier than Soleil d'Octobre.

Mrs. R. McArthur. A grand late white.

Alice Byron. A magnificent white. Extra in every respect.

A. J. Halfour. A grand pink. Always gives satisfaction.

Varieties, as follows:

Mrs. Coombes. An extra fine very early pink.

Convention Hall. Pure white. Late.

Timothy Eaton. White.

Mrs. E. Thirkell. An exceedingly large, bright yellow.

F. S. Valtis. A greatly improved G. J. Warren or Yellow Carnot.

Price of all the above sorts, \$4.00 per 100

Polly Rose. A very early white.

Mrs. Jerome Jones. A fine late white.

Glory of the Pacific. A very early pink.

Mrs. Henry Robinson. Pure white.

Col. D. Appleton. A grand midseason yellow.

Yellow Timothy Eaton.

Soleil d'Octobre. An early yellow, following Monrovia.

Price of all the above sorts, \$3.00 per 100

We have large stocks of some of these varieties offered at the higher prices. If customers desiring a good selection of chrysanthemums will leave selection to us, we will furnish 100 in from 10 to 20, as may be desired, best sorts, for only \$5.00, and will include many of the newer and higher priced sorts offered above.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

GRAFTED ROSE STOCK

Now is the Time to Order for Summer Flowering

KAISERIN AND CARNOT } 2 1/4-inch pots, \$15.00 per 100
 } \$120.00 per 1000

Own Root Stock

KAISERIN, CARNOT, BRIDE AND 'MAID } 2 1/4-inch pots, \$4.00 per 100
 } \$35.00 per 1000

I have splendid plants of AMERICAN BEAUTY, clean and free from spot, \$6.00 per 100, \$50.00 per 1000.

All my Rose plants are in the best condition and free from mildew. Will be pleased to send sample on application.

W. H. ELLIOTT, Brighton, Mass.

BULBS For Spring Planting and Summer Flowering

BUY FROM HEADQUARTERS

	Per 100	1000		Per 100	1000
GLADIOLUS—Selected Bulbs.					
American Hybrids, mixed.....	\$1 00	\$8 50			
Very fine mixed.....	90	7 50			
Second size mixed.....	85	5 00			
White and Light, best to be had..	1 50	13 50			
GLADIOLUS—Florists' Forcing Sorts.					
Angusta, lat size.....	8 00	25 00			
" pure white, selected..	4 00	30 00			
May, Daybreak color.....	1 50	12 00			
Shakespeare, white and rose..	4 50	40 00			
BEGONIAS—Tuberous-rooted.					
Single, bulbs 1 1/4 in. and up, separate colors, white, red, pink, yellow and orange.....	2 00	18 50			
Double, large bulbs, 1 1/4 in. and upward.....	3 50	32 50			
Separate colors, or mixed.....	3 50	32 50			
CALADIUMS—(Elephant's Ear).					
Bulbs, 5 to 8 in. in circumference..	1 50	12 50			
" 8 " 10 " " " " " " " "	3 00	25 00			
" 10 " 12 " " " " " " " "	5 00	45 00			
" 12 in. and over, \$1.50 per doz..	10 00				
Fancy-Leaved, named sorts, large bulbs, \$1.25 per doz.....	7 50	60 00			
Mixed sorts, large bulbs, 80c. per doz.....	6 00	55 00			
GLOXINIAS—Choice Stock.					
Named varieties, very large bulbs; separate colors: white, purple, red, blue, spotted and tigered. 3 50	30 00				
All colors mixed, 50c. per doz..	3 00	28 50			
DAHLIAS. Large Field Clumps					
Named kinds. Separate. Our selection. Ask for list of named sorts.					
Cactus, Show, Fancy and Pompon, \$5 50		\$45 00			
Double Mixed, all colors.....	5 00	40 00			
TUBEROSES.					
Excelsior Double Pearl, Doz.					
Mammoth bulbs, 8 to 8 in.. \$0 30	2 00	15 00			
4 to 8 in. around.....	20	75 6 50			
1st size, 3 to 4 in.....	15	40 8 50			
LILIUM.					
Anatum, 8 to 9 in.....	75	4 25 38 00			
" 9 to 11 in.....	1 25	7 50 67 00			
Speciosum Rubrum.....	1 00	8 00 50 00			
9 to 11 in.....	1 50	7 50 70 00			
Speciosum Album.....	1 25	7 00 60 00			
8 to 9 in.....	2 00	12 00			
9 to 11 in.....	1 50	12 00			
MONTBRETIA.					
Named sorts.....	1 50	12 00			
OXALIS, in variety.....	25	1 75			
TIGRIDIAS, mixed.....	2 00	15 00			
TRITOMA PEITZERI.....	6 00	55 00			
ISMENE GRANDIFL.....	7 50	65 00			
MADEIRA VINES.					
Large roots.....	1 50	10 00			
IRIS, Japan or Kamperi.					
Grown from originally imported stock, 1/2 single, 1/2 double, named sorts, \$1.00 per doz.....	7 00	65 00			
Mixed sorts, 1.00 " " " " " " " "	5 00	48 00			
GERMAN IRIS, named.....	3 00	25 00			
Mixed.....	2 00	15 00			

CANNAS Large dormant pieces, with two to three eyes. For varieties and prices see our ad. in this issue, page 308.



CLUCAS & BODDINGTON CO. GREENWICH ST. N. Y. CITY

Corner Jane Street. Telephone, 1063 Chelsea.

PALISADE NURSERIES, SPARKILL, N. Y.

Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

Mention the Florists' Exchange when writing.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

ROOTED CUTTINGS		TWO-INCH POTS	
ETHEL WARD.....	\$2.00 per 100	PROSPERITY.....	\$2.00 per 100
THE PRESIDENT.....	\$60.00 per 1000	ENCHANTRESS.....	\$15.00 per 1000
WHITE LAWSON.....	\$4.00 per 100	GOLDEN EAGLE.....	\$4.00 per 100
ENCHANTRESS.....	\$4.00 per 100	OCTOON.....	\$5.00 per 100
CHRISTMAS EVE.....	\$30.00 per 1000	WHITE LAWSON.....	\$5.00 per 100
GOLDEN EAGLE.....	\$5.00 per 100	ETHEL WARD.....	\$7.00 per 100
LAWSON.....	\$40.00 per 1000	CARDINAL.....	\$60.00 per 1000
PROSPERITY.....	\$3.00 per 100		\$12.00 per 100
MACKINAS.....	\$25.00 per 1000		\$100.00 per 1000
THE BELLE.....	\$2.00 per 100		
JUDGE HINSDALE.....	\$15.00 per 1000		
MRS. PATEN.....	\$6.00 per 100		
NELSON FISHER.....	\$50.00 per 1000		
OCTOON.....			
FLAMINGO.....			

50 of a kind at 100 rate; 250 of a kind at 1000 rate

COTTAGE GARDENS COMPANY (INC.), QUEENS, N. Y.

C. W. WARD, Manager

IDES OF MARCH SHOULD REMIND YOU OF SOME OF THESE ITEMS



SWEET PEAS
 Mont Blanc..... per lb., 46 cts.
 Blanche Ferry, extra early " 30 "
 Countess of Radnor..... " 30 "
 Salopian..... " 30 "

FRESH SEED OF 1904
ASTERS, all standard varieties, per trade pkt., 25 cts.
SMILAX..... per oz., 35 cts.
SALVIA Splendens Bonfire, per trade pkt., 26 cts.
MUSA ENSETE (Just received) per 100 seeds, 90 cts.
DRACENA INDIVISA, per oz., 30 cts.

ROOTS
 Lily of the Valley Clumps, 100... \$8.00
 " " " Pips, case of 2500, 24.00

FERTILIZERS

PERUVIAN GUANO, fresh imported, 100..... \$2.25
 STERILIZED SHEEP MANURE, 100 lbs., \$1.25; ton..... 20.00
 BAMBOO CANES, 6 to 8 ft., 1000 lots only..... 6.00

WM. ELLIOTT & SONS, NEW YORK

Mention the Florists' Exchange when writing.

COLD MEDAL STRAIN BEGONIAS TUBEROUS ROOTED

	Per doz.	100	Double White	Per doz.
Single White	\$0.36	\$2.25	Yellow	\$0.65
" Yellow	.35	2.25	" Orange	.65
" Nankeen	.35	2.25	" Rose	.65
" Pink	.36	2.26	" Dark Rose	.65
" Rose	.35	2.26	" Dark Red	.65
" Red	.36	2.26	" Red	.65
" Dark Red	.35	2.26	" Salmon	.65
" Salmon	.36	2.25	" Mixed	.60
" Orange	.35	2.25		
" Mixed	.30	2.00		

STUMPP & WALTER CO., 50 Barclay St., New York

Branch Store 404 East 34th St., N. Y.

Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANTS

SEND FOR CATALOGUE.

ARTHUR T. BODDINGTON

342 West 14th St., New York,

Mention the Florists' Exchange when writing.

Catalog Engraving and ILLUSTRATIONS

that print EASILY. That's the kind we make—have been since '73.

JAS. M. BRYANT, Horticultural Engraving and Print
 706 Chestnut Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

Summer Flowering BULBS

	100	1000
Iemene Grandiflora	\$6.00	\$50.00
Madelra Vine	1.00	6.00
Spotted Callas	3.00	25.00
Tritoma Pfizeri	7.00	60.00
Gladiol, mixed, 1 1/4 in. diam.	.60	6.00

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC.

Eight per cent. discount for cash. Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.

Mention the Florists' Exchange when writing.

DANGER!!

In Cheap Seeds. Why not get the Best?

NEW ASTER KATE LOCK

Has been grown 48 inches high

Blooms from five to six inches in diameter with very high centers, stems from 36 to 43 inches, shown at largest exhibitions in Canada and taken everything before it; Colors, Daybreak-white and mixed. \$2.00 per 1,000 seeds, not less than 1000 seeds sold, (no agents). Do not send checks. Originator.

J.H. Lock, 41 Manchester Av., Toronto, Ont.

Mention the Florists' Exchange when writing.

Be 4 Ordering Your Fall Bulbous Stock, WRITE US FOR PRICES

We are the Largest Bulb Growers of the Channel Islands, England.

HUBERT & CO. MT. VERNON, N. Y.
 N. LE PAGE, Rep.

Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus SEED

250,000 present season growth \$2.25 per 1000. In quantity to suit. March delivery. Early orders requested.

REES & COMPERE, R.F.D., Long Beach, Cal.

Mention the Florists' Exchange when writing.

SOW NOW

Rawson's Flower Market Store INCOMPARABLE IN QUALITY

Whits..... 1/4 oz. 75c., oz. \$2.00
 Any other col., 1/4 oz. 60c., oz. \$1.50

W. W. RAWSON & CO. Seedmen,
 12 Faneull Hall Square, BOSTON, MASS.

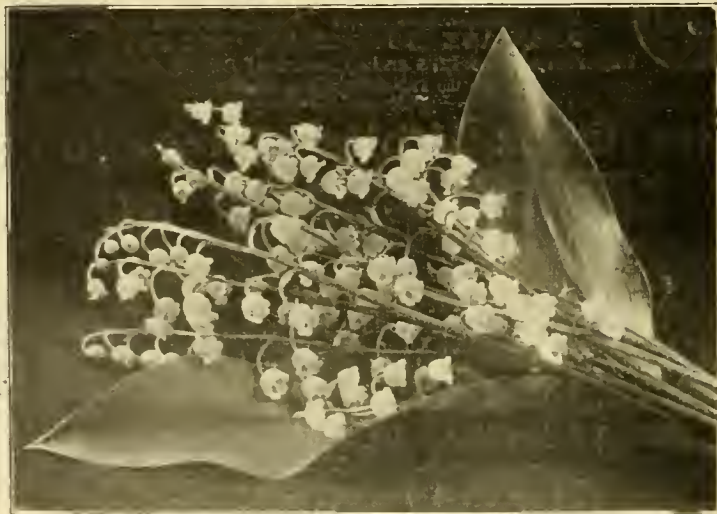
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WARD'S HIGH GRADE Bulbs & Plants

RALPH M. WARD & CO.
 17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

Lily of the Valley for Easter



We have in cold storage in PERFECT CONDITION for immediate forcing a limited quantity of selected high-grades LILY OF THE VALLEY.

There is sure to be a demand and ready sale for this at Easter, especially in flower in pots. We offer as follows:

Dreer's 'Peerless' Pips The very highest quality, in cases of 1000 each, \$12.00 per case.

Dreer's 'Berlin' Pips A strictly high-grade, in cases of 1000 each, \$11.00 per case.

Dreer's 'Hamburg' Pips A fine quality, in cases of 1000 each, \$10.00 per case. Also in cases of 2500 pips, \$24.00 per case.

NOTE—On account of the pips being frozen we cannot break cases. It takes from 21 to 25 days to force pips into flower.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

BERMUDA HARRISII BULBS

THE "SEMPER IDEM" BRAND

I AM NOW BOOKING ORDERS FOR JULY AND AUGUST DELIVERY PRICES ON APPLICATION

CHAS. A. V. FRITH HAMILTON, BERMUDA

Mention the Florists' Exchange when writing.

BEGONIAS BULBS GLOXINIAS

LARGE FLOWERING BEGONIAS—Tuberous Rooted, 1 1/4-1 3/4 inches.

	Per Doz.	Per 100	Per 1000
SINGLE BEGONIAS—Scarlet, White, Crimson, Rose, Yellow, each.....	.35	\$2.50	\$23.00
MIXED.....	.30	2.25	22.00
DOUBLE BEGONIAS—Scarlet, White, Crimson, Rose and Yellow.....	.60	4.25	38.00
MIXED.....	.50	4.00	37.00
GLOXINIAS—Giant-Flowering; 1 1/2 in., Blue, White, Spotted, Crimson; Violet, White Border; Red, White Border; each.....	.50	3.50	
MIXED.....	.45	3.25	
EXTRA LARGE SIZE (same colors as above).....	.65	4.75	
MIXED.....	.60	4.50	

Write for our New Wholesale List for Florists.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA.

Blue List of Wholesale Prices mailed only to those who plant for profit.

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ASPARAGUS

PLUMOSUS NANUS SEED

True Stock, Lath House Grown, \$2.00 per 1,000. Ready March and April. Strong 3 in. pot plants, \$50.00 per 1000.

SMILAX SEED.—\$1.50 per lb., ready in June. Special prices on large orders.

SMILAX PLANTS.—Strong plants, \$10.00 per 1,000; \$12.00 per 1000, prepaid.

Will exchange for Malden Hair Fern and Rooted Carnation Cuttings of Enchantress, Harlowarden, Lawson, Queen Louise, Prosperity, Geo. M. Bradt, Flan-see, Cardinal.

E. R. MESERVE

Long Beach, California

Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus



Greenhouse, fresh picked, plump, of best germination, per 100, 50c.; per 1000, \$4.00

Asparagus Sprengeri, per 100, 15c.; per 1000, 75c.

FORCE FOR EASTER.

Wislaria Sinensis, dwarfed pot-grown. Will bear 25-30 long flower racemes to each plant. Sold last Easter at \$5.00-\$10.00 each. Extra fine shaped plants, blue or white flowers, each, \$1.00; doz., \$10.00.

If our new Spring List has not been mailed to you, send for it at once.

H. H. BERGER & CO. 47 BARCLAY ST. NEW YORK

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200,000 AUGUSTA GLADIOLUS

IN DIFFERENT SIZES

1st size, 2 inch and up.
2d size, 1 1/2 inch, 1 3/4 inch.
3d size, 1 1/4 inch, 1 1/2 inch.

WHITE & LIGHT

1st size, 1 1/2 inch, 1 3/4 inch
2d size, 1 1/4 inch, 1 1/2 inch.
Ask for prices on the different sizes; send stamps for sample.

Long Island is known all over the world for the production of the best Gladioli Corme. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.

Address all orders to

ROWEHL & GRANZ, Hicksville, L. I., N. Y.

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HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of

GLADIOLI AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**

Mention the Florists' Exchange when writing.

PEACOCK'S DAHLIAS

Send for Beautifully Illustrated Descriptive Catalogue and Trade List for 1905, now ready.

L. K. PEACOCK, Inc., Atco, N. J.

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LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an unintroducted seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.

WEST GROVE, PA.

Mention the Florists' Exchange when writing.

ROSES

400,000 Roses in 2 in. pots, for living out, \$25.00 to \$35.00 per 1000. Send for wholesale list for varieties. Small shrubs for transplanting. See wholesale list.

100 varieties of Hardy Herbaceous Plants in 2 in. pots. Will be ready for delivery May 1st. 50,000 field-grown Philox, in 30 varieties, \$6.00 per 100.

LARGE SHRUBS

HYDRANGEA P. G.—	Per 100
WEIGELA, ALTHEA, SPIRÆA	\$11.00
Prices and varieties given in wholesale list.	
3 to 4 ft., XX heavy.....	9.00
3 to 4 ft., very fine.....	8.00
2 to 3 ft., good.....	5.00
1 1/2 to 2 ft.....	5.00
Last Summer's propagation.....	2.00
AMPELOPSIS VEITCHII—	Per 100
Field-grown, 2 years, No. 1.....	\$9.00
X heavy.....	7.50

BOXWOOD.

3 to 4 inches..... \$15.00 per 1000
4 to 5 inches..... 30.00 " 5 to 6 inches..... \$50.00 per 1000
From 0 inches to 4 feet, quoted in wholesale list

EVERGREENS, in quantities. HEMLOCKS, SPRUCE, PINES, RETINISPORAS, and many other varieties.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

CYCAS STEMS

FRESH IMPORTATION

We have just received a splendid lot of dormant stems weighing from 1/2 to 6 lbs. Just the size for making good salable plants. Prices are right.

12c. per lb.; \$9.00 per 100 lbs. Case of 300 lbs., \$25.00.
25 lbs. and over at 100 rate.

Write for our complete list of SEEDS, BULBS, FLORISTS' SUPPLIES, Etc., free for the asking.

HENRY F. MICHELL CO. 1018 MARKET STREET, PHILADELPHIA, PA.
SEED GROWERS AND IMPORTERS

F. W. O. SCHMITZ

PRINCE BAY, N. Y.

Wholesale Importer and Exporter of

Bulbs, Plants, Roots, Etc.

All Inquiries Cheerfully Answered

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NEW Flower Seeds

ASTERS—Best German Grown

	1/2 oz.	Oz.
Queen of the Market.....	\$.15	\$.50
Victoria.....	50	1.75
Giant Victoria.....	60	2.00
Paony Fl. Perfection.....	45	1.50
Simple's Branching, Home-Grown.....	20	.60

Above in Separate Colors or Mixed.

Fresh Tobacco Stems.....\$1.50 per bale of 300 lbs.

W. C. BECKERT, Allegheny, Pa.

SPRING BULBS NOW READY

Secure your supply before lots are broken
Sound Selected Stock, Up to Size
Special Offer L. O. D. N. Y.

	Doz.	100
1 1/4 in., separate colors.....	\$0.40	\$3.00
1 1/4 in., " Double.....	.65	5.00

	Doz.	100	1000
5-7.....	\$0.35	\$2.00	\$15.00
7-9.....	.50	3.00	25.00
9-11.....	.75	5.50	50.00
Fancy Leaved named sorts.....	1.25	8.00	

GLADIOLUS

Bargain Mixture, Mammoth Bulbs, 1 1/2 in. and up.....	.85	7.00
Extra Fine Mixture.....	1.25	10.00
Florists' XXX, White and Light.....	1.40	12.00
Augusta, 1st size.....	3.50	30.00
May.....	1.40	12.00
Shakespeare.....	4.25	35.00

TUBEROSES Dwarf Double Pearl

True Hallow Strain. Clean, white bulbs, all sound

	100	1000	5000
1st Size, 4-6 inches.....	\$0.85	\$7.00	\$32.50
Medium, 3-4 ".....	.50	3.75	17.50

	Doz.	100	1000
ISMENE GRANDIFLORA, fine cut flower.....	\$1.00	\$6.00	\$55.00
TRITOMA PFITZERI, Red Hot Poker.....	1.00	5.50	50.00

Send for Vaughan's Book for Florists, for complete list Bulb Supplies and

BEST FLOWER SEED IN AMERICA

(See offer, page 227, Issue February 25 this paper.)

VAUGHAN'S SEED STORE

84 and 86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK

Mention the Florists' Exchange when writing.

CRIMSON RAMBLER 3600 No. 1 1/2 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$15.00 per 100.

HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.

HIRAM T. JONES, Union County Nurseries, ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. **Ornamental Trees, Shrubs and Roses** in great variety, **Herbaceous Perennials** by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.
 Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

The total value of all seeds exported from the United States, for the year ending June 30, 1904, shows a decrease of almost \$7,000,000, as compared with the same period of 1903, while the imports show an increase of \$756,190.

CHICAGO.—J. C. Vaughan is on a trip to California. He passed through San Antonio, Tex., on March 1.

DAYTON, O.—Proceedings in bankruptcy have been instituted against Thomas and James T. Carney, in business as the Carney Seed Company.

ATLANTA, GA.—The L. D. McMillan Seed Company announces the opening of a new seed store at 23 South Broad street. The McMillan Seed Company has been in the same business in Georgia for forty years. A. H. McMillan will personally manage the new place.

NO DUTY ON SHAMROCK SEED.—In last week's issue, page 273, we referred to this matter. The following is the full text of the decision of the General Appraisers, which will also show the plants generally regarded as the true shamrock:

In the matter of protest of William K. Harris against the assessment of duty by the collector of customs at the port of Philadelphia before Board 3 (Walte, Somerville and Hay, general appraisers, opinion by Walte, General Appraiser: The importation consists of shamrock seeds, assessed for duty as seeds not specially provided for at 30 per cent. ad valorem under paragraph 254 of the tariff act of 1897, and claimed to be free as grass seeds under paragraph 656. The shamrock appears to be a species of clover. The Century Dictionary says: "According to recent authority (Britten and Holland, 'English Plant Names') the plant at the present day most in repute as the true shamrock is one of the hop-clovers, Trifolium minus, a slender trailing species with small yellow heads, perhaps a variety of T. procumbens. It is in use in many counties of Ireland, and forms a great part of the shamrock sold in London on St. Patrick's day. The black medic, Medicago lupulina is also thus used; but the white clover, T. repens, is widely understood to be the common shamrock. The identity of the original shamrock, which, according to tradition, St. Patrick used to illustrate the doctrine of the Trinity, is uncertain. It has been variously supposed to be the common white clover, T. repens (which, however, is believed to be of late introduction in Ireland); the red clover T. pratense; the wood sorrel, Oxalis acetosella (locally called shamrock in England), and even the watercress (though its leaves are not trifoliate)." Nicholson's Dictionary of Gardening states that:

"In some districts of Ireland, this name (shamrock) is applied to one or more species of clover; in England, the wood-sorrel is generally supposed to be the shamrock." Paxton's Botanical Dictionary, under the caption "Shamrock," refers to Tri-

folium repens (white clover) and Oxalis acetosella (Wood-sorrel). The shamrock seeds in question are invoiced by a firm of seedsmen in Belfast, Ireland which tends to indicate that they are clover rather than wood-sorrel. That they are clover seeds seems to be conceded by the reports of the customs officers. This board has always held clover seed to be free as grass seed. In re Nungesser, G. A., 2442 (T. D. 14720); id., G. A., 2597 (T. D. 15020); In re Thorne, G. A., 646 (T. D. 11263); T. D. 18257. Upon the authority of these rulings, the protest is sustained and the collector's decision reversed.

European Notes.

A bleak and biting northeast wind during the present week has severely tested both the stamina of plants and their growers, and effectually checked the aspirations of some precocious seedlings which had been unable to resist the attractions of a February sun. A few snow and sleet showers have been sandwiched between the gales, so that very little harm has been done. The week closes in a misty drizzle, just enough to make everything and everybody wet and uncomfortable, but of no service to our dried-up water courses.

The drought is already beginning to assume serious proportions, as the rainfall for the past three months is not more than one-half of an average, and "February fill dyke" has been by far the worst of the three. Rutabagas and turnips need rain badly, and, in view of the short crops of the latter, prices are hardening or advancing all round. A largely diminished acreage of rutabagas was sown in Europe last year, mainly as a result of the drought; this added to the stock left on hand, and caused a drop in prices. But as the same conditions are not likely to prevail this year, a rise in the choicest strains is inevitable, and has already begun.

But it is in mangel wurzel that the effect of the drought is most apparent. As this seed is not required in northern Europe before the middle of March, much of it is left in the stacks until February, as by this means the seed can be more readily separated from the stalks; it is more completely matured. The product is generally of a superior quality (this, by the way, is true of all root seeds), and the germination of the

Florists' Flower Seeds
NEW CROP NOW READY.
 Catalogues free on application.
WEEBER & DON, Seed Merchants and Growers,
 114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

1904 CROP ASPARAGUS SEED

	Per 100	Per 1000
Plumosus Nanus.....	55c.	\$3.50
" Robustus.....	85c.	7.50
" Sprengeri.....	15c.	1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.

MOORE & SIMON, Seed Growers
 207 Market Street, PHILADELPHIA, PA.
 Mention the Florists' Exchange when writing.

W. & T. SMITH COMPANY
 Geneva, N. Y.
 Home-Grown Hardy Roses, Clematis, Ornamental Trees, Shrubs and Vines
 Fruit Trees and Small Fruits.
WHOLESALE PRICE LIST SENT ON REQUEST
 Mention the Florists' Exchange when writing.

seed is of a more even character. To the consternation of the grower, the seed now being threshed is yielding 500 pounds where 2,000 was expected. Part of this deficiency is due to the attacks of aphid, which are, of course, more abundant in hot dry seasons. As a result prices of mangel seed of all kinds have gone up with a jump from 15 per cent. to 60 per cent., and with an average demand, seed of the Mammoth Longred, Golden Tankard, and choice yellow intermediate varieties will easily fetch double the price for which they could have been bought in August last. David L. Keith, of Toronto, sailed for home on the steamship Bavarian on February 22.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y.—Catalogue containing interesting facts regarding the use of Slug Shot, etc., in the eradication of Bugs and Blights.

JOHN N. MAY, Summit, N. J.—Illustrated Wholesale Trade List of Roses, Carnations, Chrysanthemums, etc. The lists include all the best standard varieties as well as the novelties and are very complete. New things selected for illustration are, Chrysanthemum Ziletto, Roses Wellesley, Richmond, Etolle de France and General MacArthur; Carnations Phyllis and The Bride.

STUMPP & WALTER COMPANY, New York.—Illustrated Catalogue of High Grade Seeds, Bulbs, Plants, Hardy Shrubs, Fruit Trees, Supplies, etc. The novelties and specialties of this enterprising firm include among others Livingstone's New Globe tomato, New pea Thomas Laxton, Cabbage-Lettuce Dumont, Emerald Isle Kale in vegetables, and Nicotiana Sanderae Chrysanthemum maximum Princess Henry, Snapdragon Queen Victoria, flowers of a brilliant white; and good things in Dahlias, Phlox, Nasturtium, etc. Interesting collections of Japanese Iris, Tree and Hardy Herbaceous Peonies are also presented. The catalogue is well printed and profusely illustrated, including a colored plate of the Dandy Collection of Roses.

SEED BAGS
 For the Trade

We manufacture a full line in Manilla, White, Amber or Colored Laid Papers. Also print in quantities. Samples on application. Send list of requirements for estimate.

THE BROWN BAG FILLING MACHINE CO.
 Bag Dept. FITCHBURG, MASS.
 Mention the Florists' Exchange when writing.

Thorburn's Seeds
LILY OF THE VALLEY PIPS
 LARGEST AND FINEST STOCK
 IN SPLENDID CONDITION
 Per case of 3000 for - - - \$24.00
 Two or more cases at \$7.50 per 1000

J. M. THORBURN & CO.
 36 Cortlandt St. New York
 Mention the Florists' Exchange when writing.

TREES AND SHRUBS WANTED
 By the 100 of Each

- AMELANCHIER ALNIFOLIA, 3 to 4 ft.
- CHIONANTHUS VIRGINICA, 4 to 5 ft.
- VIBURNUM LENTAGO, 3 to 4 ft.
- VIBURNUM OPULUS; Syn. OXYCOCUS, 3 1/2 to 4 ft.
- RHODOTYPUS KERRIOIDES, 2 to 3 ft.
- HIBISCUS, 3 to 4 ft. (Single flowering.)
- SYRINGA LIOUSTRINA, 3 to 4 ft.
- STAPHYLEA COLCHICA, 4 to 5 ft.
- LINDERA BENZOIN, 3 1/2 to 4 ft.
- CRATAEGUS CRUS-GALLI, 4 to 5 ft.
- PINUS AUSTRIACA, 4 1/2 to 5 ft.
- PINUS MUQHO, 2 1/2 ft. high.
- PINUS SYLVESTRIS, 4 to 5 ft.
- TAXUS BACCATA, 3 to 3 1/2 ft.
- NORWAY MAPLES, 4 to 5 in. cal.
- BETULA ALBA, 2 in. cal.
- JUGLANS NIGRA, 3 in. cal.
- LIQUIDAMBAR STYRACIFLUA, 3 in. cal.
- CASTANEA AMERICANA, 3 in. cal.

Send particulars and cash quotation to
FRANK W. KELSEY
 150 Broadway New York
 Mention the Florists' Exchange when writing.

CANNAS Dormant roots, 2, 3 and more eyes, Ailsa, Austria, Allemania, Burbank, Buttercup, F. Vaughan, Mme. Crozy, Black Prince, Bouvier, P. Merquand, Italia, Egandale, Robusta, Metallica, red leaf, \$2.00 per 100; \$15.00 per 1000; mixed, \$10.00 per 1000. Shellroad Greenhouses, Grange P. O., Ballou, Md. Mention the Florists' Exchange when writing.

THE HARDY ANNUAL OF THE CENTURY
Nicotiana Sanderae
 Seeds in original packets at 25c. each.
 Wholesale Agents for the United States:
 J. M. THORBURN & Co., Cortlandt St., New York;
 VAUGHAN'S SEED STORE, Chicago and New York.
 Mention the Florists' Exchange when writing.

GROFF'S HYBRID GLADIOLI
 First-Class Corms.....\$2.00 per 100
 Second Size..... 1.50 "
 Small (blooming) one inch and under..... .75 "
 Cash with order, please.

W.F. MASSEY, Raleigh, N.C.
 Mention the Florists' Exchange when writing.
GLADIOLI BULBS

SHAKESPEARE, sizes 1 and 2; E. SCRIBE 1 and 2; No. 1900, 2, 3 and 4; AUGUSTA, 2, 3 and 4, also small Angusta about 1/2 to 3/4 in. at \$3.50; and 6-16 to 1/2 at \$5.00 per 1000. Cash with order.

John Fay Kennell, R.F.D., CHILI, MONROECO, N.Y.
 Mention the Florists' Exchange when writing.

DAHLIAS

Mrs. Winters, the World's Best white, strong tubers, \$10.00 per 100. Ingeborg Eckland, best scarlet cactus, \$3.00 per doz., \$20.00 per 100. Many other novelties and standard varieties. Wilmore's Dahlias have long been celebrated for prize winning. Also Double Field grown HOLLY HOCKS, true to color, \$3.00 per 100. Send for catalogue.

W. W. WILMORE
 Dahlia Specialist, Box 382, DENVER, COL.
 Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSEYRIMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

In Mr. Meehan's notes on the climbing hydrangea, page 264 of issue of March 4, the words two different germs should read two different "genera."

The total value of nursery stock (plants, trees, shrubs, vines, etc.) imported into the United States for year ending June 30, 1904, shows an increase of \$123,229, compared with the same period of 1903.

NEWARK, N. Y.—The Quaker Hill Nursery has been incorporated; capital, \$5,000. Incorporators, F. M. Phelps, J. M. Perkins, Jr., and Charles H. Stuart, all of Newark, N. Y.

NEWPORT, R. I.—Mr. and Mrs. V. A. Vanicek, of the Rhode Island Nurseries, have returned to their home after several weeks' sojourn in a few of the principal cities of Europe.

Deutzia Crenata.

There are two distinct sections of deutzias, as recognized by those familiar with them—the taller growing, late flowering ones, and those of lesser growth and early blooming. The one photographed is a good representative of the taller growers; and the one florists are better acquainted with, *D. gracilis*, represents those of lesser growth and earlier flowering. The pretty sprays of white blooms and its dwarf growth, together with the ease with which it can be forced, makes *Deutzia gracilis* very popular.

But none the less popular are those of which our picture is a representation, for there is no collection of shrubs thought to be complete without one or more varieties of deutzias in it. *D. crenata* is one of the best known of all, having been in cultivation in this country from a very early date. It goes under many names, such as *scabra*, *Fortunei* and others, and there are many distinct varieties of it, such as pink-colored and double-flowered ones of both colors. Of late years, many varieties have been sent out from European collections, and one could select a half dozen sorts of tolerably distinct kinds.

Deutzia gracilis flowers in May, and is of dwarf growth, as stated. *D. crenata* and its companions flower in June, and this late flowering is the more valued as the greater number of Spring-blooming shrubs are out of flower at that time. *D. crenata* in its typical form, with the pink-flowered one, are two to be recommended for general planting.

Our illustration shows a handsome bush, and yet it is not altogether a natural one. It has been improved on, and to its advantage, by pruning and other causes. Naturally, it grows taller in proportion to width than this one is. Another thing in its favor is, that it is growing at the base of a hill and has large trees at no great distance in its rear, and this has given the bush a desire to face the way it is seen, and to the advantage of its appearance. JOSEPH MEEHAN.

Potting Stock for Inarching.

During the Summer season there are many plants in a nursery which may be increased by inarching, and this is the time to pot the stock for the purpose. There is hardly a tree, or shrub, which could not be increased in this way; and the main thing to be done now is to get stocks potted. Beech, birch, maple, larch and various evergreens are often increased in this way, whenever desirable varieties of them cannot easily be increased in any other way. When stocks are to be used in this way, it is better that they be well established in pots some time in advance. It is better to pot now rather than not have the stocks at all, but it would be still better to have them potted a year in advance.

In addition to what inarching may call for, there is to be thought of what will be required for next Winter's grafting indoors, and this stock it will be much better to pot now than in Autumn, for it will be so much better established. Much of Winter grafting will be lost to those who defer potting their stocks until Fall, the stocks not all being in the vigorous condition required.

Chilopsis Linearis.

This shrub, called the flowering willow, which is much prized in some of our Southern States and in Europe, has not proved able to withstand the cold of Philadelphia. It has been tried here more than once, and even when well protected it did not endure the cold it met. But as it is a native of Texas, the warmer part at that, it can hardly be expected to endure our climate. It is a pity it will not thrive, for where it does it is esteemed for its flowers, which are lilac, and which are produced almost continuously throughout the Summer. The Messrs. Berckmans, of Augusta, find it does very well in Georgia, but it certainly will not do well here. Many trees and shrubs raised from seeds from Texas do fairly well in Philadelphia. *Sapindus marginatus* and *Ungnadia speciosa* come to mind as two of these.

The Use of Sand in Planting.

In the Southern States, with the incoming of the new year, planting time is not far off. At any rate, be the time now or later on it will be opportune to call attention to the great value of sand in transplanting trees and shrubs. The losses of many of these subjects, because that the soil does not closely surround the roots, are well known to all who have had to do with the transplanting of trees. It is especially hard to get the soil closely compacted around the roots when it is wet. Nothing meets the requirements of the situation like sand, and were its use more general there would be little heard of the loss of trees in transplanting. The way to use the sand is this: Immediately the tree is set in place, fill in sand about it until all its roots are covered and all the cavities under the roots are filled. Sand will find its way under and around the roots where soil would not, and, as the close covering of the roots of a tree



DEUTZIA CRENATA

is half the battle for success, the losses are greatly minimized when it is used. Sand, too, is well known as the best material of all for enticing out new roots, so that there are several good reasons for its use. It is not necessary to use more sand than what is sufficient to well fill in about the roots. After this is done the natural soil should be shoveled in and be well tramped down.

The importance of having the roots fully covered with soil of some kind is appreciated fully only by those who have had a great deal to do with tree planting. Some years ago the writer saw a short hedge of hemlocks renewed. The plants in the hedge were about four feet, and had been nice, bushy plants, but were nearly dead. On digging them out, it was displayed that the soil had never been gotten in around the roots. It had been thrown in in a lumpy state, and much of it had never reached the cavities under the roots, although three years had passed away since the planting. This was what had prevented the plants from flourishing. Had sand been used, every space would have been filled, and there would have been no loss of the hedge.

For heeling in purposes the use of sand is well known and appreciated by nurserymen, and large heaps of it are at convenient points where stock may be placed in a short time. Now is the time to see that a supply is secured.

Sowing Red Cedar Seed.

Referring to what has been said of the sowing of red cedar seed, *Juniperus virginiana*, a correspondent, Dutchy, writes us: "Regarding the red cedar, I always had the best

of success when seeds were planted in the Fall, twelve months after being gathered. When planted in early Spring, eighteen months after being gathered, there always seemed to be a big loss. I have for three years in succession sowed one part in Fall and the other part in early Spring. The seeds were all the same and all stratified in the same manner, but the Fall sown were always far the better." In the main, this agrees with what is known of juniper, holly and other seeds in what refers to its taking a year for the seeds to be in the ground before germinating, but the point that it is better to sow in the Autumn rather than in Spring is not well known, and this will be of value to those who have such seeds to sow.

The best plan to follow is to procure the seeds as soon as ripe, mix them with fine soil and place outdoors, letting them remain until the following Autumn. Then separate the seeds from the soil, if possible; if not, sow all as it is. The next Spring should see the seedlings appear. There is no use in sowing at once as soon as gathered, as some do. This means a wait of a year for the seedlings, and, in the meantime, the waste of the ground for a year and the loss of time in keeping the bed free from weeds has to be considered. JOSEPH MEEHAN.

FRUIT UNDER GLASS.

The Grapery.

Thinning will soon be in order in the early grapery. A poorly thinned bunch of grapes will naturally take points from it; the expert fruit men lay great stress on this, and justly so. But, in my judgment, nothing but experience and practice can teach anyone how this work should be done. The majority, when first starting to thin grapes, will leave the berries too thickly, with the result that the fruit will not have the room to develop to its full size, also giving the bunch an unattractive appearance. The same holds good when the fruit is thinned too severely. The aim should be to take out enough berries, so that when the bunch is cut and laid on the dish or other receptacle, it still holds its shape, with every berry fully developed. Some bunches are inclined to have bare shoulders, or, I may say, the berries do not close up to the stem, something that should be avoided if possible. Where the shoulders have a tendency to this defect, it can be helped considerably by leaving the berries thickly on top; this would tend to press them toward the stem.

A man with wide experience in this line can take out enough berries at one thinning, while it would be a difficult matter for the beginner to do so.

Another important point is never to handle the bunch; use a small stick to lift up the shoulders while thinning. Some varieties need more severe thinning than others. The short stem sorts do not have a chance to make much room for themselves, while the long, stemmed ones can make considerable room. Take *Barbarossa*, for example; if that variety is thinned any way severely, the fruit never will fill out; while *Gros Maroc*, *Gros Colman* and *Alicante* must be thinned fairly well, as they cannot make so much room for themselves.

The Peach House.

As I have before stated, where there is a demand for peaches and nectarines for a long season, it is advisable to retard them as long as possible. However, when the buds begin to swell, it is useless to hold them back any longer. As a rule, it is advisable to start the late house about the middle of March, even to hold it back till that date. The house must be kept very cold during the Winter months, and up to the date of starting. Naturally, when the buds show signs of moving, the trees are benefited by an even growing temperature. Make sure before starting that the border receives a good watering. If a border is allowed to get very dry while the trees are resting, it is surprising the amount of water required to thoroughly soak the soil again. Still, I think it a mistake to allow the border to get so dry. For my own part, I would not hesitate to water a fruit border when the trees were dormant rather than allow them to get so dry. I have seen fruit borders with large cracks in the soil through the drying process. I do not approve of this. Extreme drying is injurious to all fruit trees. I prefer to have my fruit border just moist—not wet or dry. Under these conditions the roots are healthy and vigorous, and the soil in just nice shape to take water when needed for starting. If the trees are thoroughly established a liberal top dressing of good rich manure and soil, cow manure preferred, should be given. It is surprising the amount of food trees will take after once they are full grown. Not only a top dressing when starting them up, but after the fruit is set feeding in some form will again be in order. This especially holds good with inside borders, more so than where the roots are allowed to go outside. Of course, good fruit can be grown when the drainings from the farm barn are applied, and, I may say, the man who has not got this facility, is at a disadvantage to a certain extent. But whoever relies upon this feeding altogether makes a mistake, I think. The trees certainly appreciate a change of diet, but each grower must use good judgment in this respect. The better plan is to apply lightly and often, rather than too heavy at one time. WM. TURNER.

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Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.
Mention the Florists' Exchange when writing.

PÆONIAS Large Roots 3 to 5 Eyes

We have a few Pæonias that we wish to sell this Spring and have reduced prices much below last Fall's rates. \$10.00 per 100, \$30.00 per 1000. Camille Callot, rose, changing to white; Comte de Manteuil, dark rose; Delicieux, purple-crimson; Doreen Coros, bright pink; Duc de Wellington, white and sulphur; Francois Ortelan, dark crimson; Grandiflora Rosa, bright rose; La Sublime, rich crimson; Mme. Lebon, cherry red; Rosa Superba, deep rose. These prices are for good general assortments only.

JACKSON & PERKINS CO., Newark, New York
Mention the Florists' Exchange when writing.

An Exceptional Opportunity

For \$1.00 I will send you, express or mail prepaid, 25 of our Cryptomeria Japonica from prepaid. Takes the place of Araucaria Excelsa. Every florist should keep it in stock. Can also supply Asparagus Plumosus Nanus, Smilax, Snapdragon, Cupheas, Grevillea Robusta, Sweet Alyssum, Asters, etc.

E. I. RAWLINGS, QUAKERTOWN, PA.
Mention the Florists' Exchange when writing.

PANSIES

A superb strain of our own raising. Large Transplanted plants 50c. per 100 by mail; \$3.00 per 1000 by express.

C. WHITTON, City Street, Ulica, N. Y.
Mention the Florists' Exchange when writing.

PANSIES

Extra fine Fall transplanted stock from cold frame, in bud, \$1.50 per 100; \$12.00 per 1000.

Cash with order.
PETER BROWN, Lancaster, Pa.
Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN.
Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No loss in quantity. By express only. Cash with order.

E. B. JENNINGS, Lock Box Southport, Conn.
254.
Grower of the Finest Pansies.
Mention the Florists' Exchange when writing.

CANDYTUFT

GIANT HYACINTH-FLOWERED ANTIRRHINUM (Snapdragon) best mixed, all from 2 in., fine plants, just right for Memorial Day cutting, \$2.00 per 100.

T. W. A. SMITH, Biddeford, Maine
Mention the Florists' Exchange when writing.

IVY

Hardy large leaf variety, luscious, 4-5 ft. high, 5 in. pots, \$15.00 per 100. Rooted cuttings, very strong, 5-8 eyes, \$1.25 per 100; \$10.00 per 1000. Lemon Verbena, stock plants, 4 in. pots, \$5.00 per 100. Cash with order please.

JOHN RECK & SON, Bridgeport, Conn.
Mention the Florists' Exchange when writing.

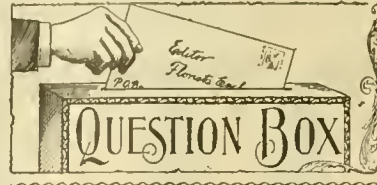
LOOK! Violet Plants, from flats, Princess of Wales, \$1.25 per 100; 2 1/2 in. Dr. Englehard Chrysanthemum, 50c. per doz.; Prosperity Carnation, rooted cuttings from flats, \$1.25 per 100; Campbell Violets, from flats, \$1.00 per 100; Boston Ferns, rooted runners, \$2.00 per 100. The above by mail, postpaid. 2 1/2 in. Princess of Wales Violets, \$2.50 per 100; Campbell, 2 1/2 in., \$2.00 per 100. Timothy Eaton Chrysanthemum, 2 1/2 in., \$2.00 per 100.

A. B. CAMPBELL, - COCHRANVILLE, PA.
Mention the Florists' Exchange when writing.

Vinca Variegata Major

3 in., \$4.00 per 100; 2 1/2 in., \$2.50 per 100; R. C. from soil, \$1.00 per 100. Good strong clean stock. Cash.

C. F. Mahan, R. D. 8, Dayton, Ohio.
Mention the Florists' Exchange when writing.



Narcissus for Easter.

(102) Can you give me any help on my Von Sion, as Easter is late this year. I purchased of an honorable firm some surplus hyacinths and Von Sion narcissus. I potted them November 26. The hyacinths I put in a cool cellar and they have made roots in good shape. I had no room indoors for the Von Sion; they were potted and left out-of-doors. They had good drainage. I covered them with six inches of straw horse manure. A few days after they were covered with snow, and I put six inches of manure on top of the snow, so they were covered with snow and manure three feet deep. I looked at them yesterday (March 1); the bulbs appeared clean and bright, perfectly healthy, but the roots were not over one quarter of an inch in length. What was the matter, and what can I do with them for Easter? Or shall I put them in the ice house for Decoration Day?

—Evidently the bulbs were potted too late to make roots out-of-doors. They would have done better if kept in the same kind of a place as the hyacinths were. We would advise putting them under a bench in the greenhouse, making a perfectly dark place for them, and let them remain there until the last week in March. Then put them in full light and bring them into flower for Easter, rather than take the risk of holding them back for Memorial Day.

Moon Vines.

(103) Will moon vines bear transplanting, or must they be started in pots? About what time should they be started to make vines about one foot high by the middle of May? Do the white seeded ones bloom more freely than the crossbred variety? E. S.

—Moon vines can be transplanted with safety while very young, but it is best to put them direct from the seed box into small pots, shifting them when necessary, as they do not transplant well, only from pots after they get well started. The seed should be sown by the middle of this month. We cannot tell which variety of seed will produce the most flowers. Why not try both and make a note of the results?

Sulphur for White Fly.

(104) Please inform me if burning sulphur will injure tomato plants, and will it kill the white flies. M. T.

—The fumes from burning sulphur will kill the foliage of tomatoes or any other living plants. To get rid of the white fly, try dusting the plants with pyrethrum powder, putting it on with an ordinary powder bellows.

Dry Manure for Carnations, Etc.

(105) What is the best thing to feed carnations, dry, in the house? Is sheep manure and woodashes good, or is there something better? What is the proper way to get a piece of good sod ready to grow carnations in the field? How deep should the soil be plowed? Should the manure be plowed down or harrowed in on top? Should any fertilizer be used, and how much per acre? COOL.

—The best mulch for carnations on the benches is sheep manure. Get the pure article and use it alone. To prepare a piece of sod ground for carnations, first spread about two inches of barnyard manure over the surface, then plow deep enough to bury the sod well, so that it will decay thoroughly. This should have been done in the Fall. With sod ground and manure plowed in, no commercial fertilizers should be used; the land will be rich enough.

Bulbous Flowers for Easter in Frames

(106) Can I bloom hyacinths, daffodils and tulips for Easter in a cold frame on the north side of a board fence, where they will get the sun from 9 o'clock until 1 p. m.? I have no better location, and the greenhouse will be crowded. If you think it can be done, kindly tell me if it will be best to put

them in earlier than usual. They are buried outdoors and are well rooted.
H. C. O.

—It will depend altogether upon the weather. If April happens to be a nice warm month, the bulbs would stand a fair chance of coming into flower in the frame. We would advise placing the bulbs in the frame about the 20th of this month, and take a chance.

Plants for Table Decoration.

(107) Kindly inform me the names of some varieties of potted plants that would be suitable for table decoration. I am located near a small hotel and would like to raise some plants next Winter that would be hardy enough to transfer from the greenhouse and would still continue to grow and blossom on a hotel table.
H. K. J.

—There are no flowering plants that can be transferred from the greenhouse to the hotel table and continue to grow and blossom. Where flowering plants are used for such purposes, the plants have to be brought into bloom, then used on the tables, and, as soon as the flowers begin to show signs of wilting, they must be replaced with new plants. For such purposes, chrysanthemums, primulas, azaleas, Dutch bulbs, geraniums, ericas, genistas and acacias are the best, and by having sufficient stock, a continuous supply of flowering plants could be maintained through the Winter and Spring.

Coal.

(108) I read in The Florists' Exchange of February 25, 1905, where some one was asking how much coal it would take to heat a house 20x35 feet, in a season, and you stated about three tons. I would like to know what kind of a hot water boiler to get to do this.
G. S.

—The house referred to in the February 25 issue is located in Washington, D. C., where the climate is much milder than in Massachusetts. For full information regarding small boilers that would be suitable for a house 20x35 feet, we would recommend writing to the boiler manufacturers, whose advertisements are found in The Florists' Exchange.

Swanley White Violets.

(109) Can you give me the address of anyone growing Swanley White violets?
E. S. DRAKE,
Hartford, Conn.

—We believe some of the Grand Rapids, Mich., violet growers raise this variety. Try the Stover Floral Company or Eli Cross. If stock is wanted, why not advertise for it in The Florists' Exchange.

Temperature for Carnation House.

(110) What is the proper temperature for a carnation house in the daytime at this time of the year, providing it is a bright sunny day?
SUBSCRIBER.

—There is no way of defining what the exact temperature of a carnation house should be when the sun is shining. While it is a rule to keep the temperature at such times as near 70 degrees as possible, we know that the houses often get much warmer than that without any injurious effect on the plants, so that there can be no hard and fast limit set down for a rising temperature during strong sunshine.

A Putty Trouble.

(111) Can any one, who has had experience in the matter, give cause, also suggest remedy, for new putty, which has been used in inside repair work in greenhouses, breaking out? In repairing we clean out the old putty under the glass very carefully and refill with fresh putty before painting.
SUBSCRIBER.

—Your correspondent has evidently bought the ordinary commercial putty sold in paint and glass stores. The trouble is in the oil and whitening that is made from. If he will buy, for instance, our guaranteed putty, he will not have that trouble. The user of the putty must clean out the old putty, which your inquirer says he did. He must also be careful that there should be no moisture there before applying the putty. This putty will not stick when the wood is wet.

S. JACOBS & SONS.

Dreer's Select List of HARDY PERENNIALS

We offer here only the most Showy and Decorative Sorts, including varieties suited for CUT FLOWER purposes. These varieties are marked with an asterisk (*).

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List.

This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field lumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

Table listing various Hardy Perennials with columns for plant name, size, and price per dozen and per 100. Includes plants like Anemone, Delphinium, and various species of Rosa and Geranium.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS

All in Fine Condition, Well Rooted.

PINK.	
100	1000
Mrs. T. W. Lawson	\$1 50 \$12 50
Guardian Angel	1 00 9 00

LIGHT PINK.	
100	1000
Enchantress	\$3 00 \$25 00
Morning Glory	1 50 12 50
Mrs. Higinbotham	1 25 10 00

RED.	
100	1000
Estelle	\$2 50 \$20 00
Chicago	2 00 15 00
Adonis	2 50 20 00

WHITE.	
100	1000
Flora Hill	\$1 00 \$9 00
White Cloud	1 25 10 00
Her Majesty	1 50 12 50

CRIMSON.	
100	1000
Harlowarden	2 00 15 00

WIETOR BROS.,

51-53 Wabash Avenue, Chicago, Ill.

Mention the Florists' Exchange when writing.

CARNATION SUCCESSOR

Cross between Wm. Scott and Lizzie McGowan best pink blooming carnation grown to date; no blank wood; 2 1/2 in., 3 in., \$6.00 per 100; \$65.00 per 1000.

H. L. PATHEY, Bay Shore, N. Y.
Mention the Florists' Exchange when writing.

CARNATIONS

50,000 rooted cuttings; good strong plants, now ready for delivery.

	Per 100	Per 1000
MRS. T. W. LAWSON	\$2 00	\$15 00
WHITE LAWSON	5 00	45 00
MRS. M. A. PATTEN	4 50	40 00
BOSTON MARKET	2 00	18 00
PROSPERITY	2 00	18 00
ADMIRAL CERVERA (var.)	2 00	
MRS. T. W. LAWSON and BOSTON MARKET, from 2 1/4-in. pots or flats, good strong plants from cuttings made last November	20 00	

Satisfaction guaranteed. Cash with order.

VIOLETS PRINCESS OF WALES Unrooted cuttings, ready now, 50 cts. per 100; \$4.00 per 1000.
Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000.

ALYSSUM LARGE DOUBLE SWEET, rooted cuttings, 75 cts. per 100; from 2-in. pots, \$1.50 per 100.
Please place your orders now.

FD. BOULON & SON
SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

RED LAWSON

Sport from Mrs. Thos. W. Lawson. Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's away ahead of all the reds.

Price, per 1000 \$75.00; per 100 \$10.00. 250 at 1000 rate.

ROOTED CUTTINGS

	Per 100	Per 1000
2000 FAIR MAID	ready now \$2 00	\$12 50
4000 QUEEN	" " 2 00	15 00
6000 BOSTON MARKET	" " 2 00	12 50
2000 QUEEN LOUISE	" " 1 25	8 00
1000 MRS. ROOSEVELT	" " 1 25	10 00
1000 DEXTER PIEROE (bright red)	" "	10 00

Satisfaction guaranteed or money refunded.

Quidnick Greenhouses, Anthony P. O., R. I.

J. H. CUSHING, Prop.
Mention the Florists' Exchange when writing.

ENCHANTRESS

The most popular and best paying of all CARNATIONS. Large stock of rooted cuttings now ready.

\$3.00 per 100; \$25.00 per 1000.

	100	1000
White Lawson	\$6.00	\$50.00
The Queen	2.50	20.00
Cardinal, from 2-in. pots, ready now.	12.00	

LARCHMONT NURSERIES
LARCHMONT, N. Y.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS	\$12.00	\$100.00	LAWSON	\$2.00	\$15.00
CHICAGO WHITE	12.00	100.00	NELSON	1.50	12.50
RICHMOND GEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
ENCHANTRESS	3.00	25.00	QUEEN LOUISE	1.00	9.00
BOSTON MARKET	2.50	20.00	PERU	1.00	9.00
ADONIS	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

2 1/2 Pot Plants

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	CHATENAY	\$4.00	\$30.00
ROSALIND ORR ENGLISH	25.00	200.00	SUNRISE	4.00	30.00
LA DETROIT	6.00	50.00	KAISERIN	4.00	30.00
LIBERTY	5.00	45.00	BRIDESMAID	3.00	25.00
PERLE VON GODESBERG	5.00	40.00	BRIDE	3.00	25.00
UNCLE JOHN	4.00	35.00	IVORY	3.00	25.00
			PERLE	3.00	25.00

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

PETER REINBERG, 51 Wabash Ave., Chicago

Telephone, 2846 Central
Mention the Florists' Exchange when writing.

The Beautiful Pink Carnation CANDACE

Dissemination 1906, \$2.00 per doz., \$12.00 per 100, \$100.00 per 1000. Early—commercial.

Indianapolis Flower and Plant Co.
and John Harljs, Indianapolis Ind.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS CARNATIONS

	100	1000
Flamingo	\$5.00	
Enchantress	\$3.00	
Estelle	2.00	2.00
Prosperity	1.50	1.50
Boston Market	1.50	1.50
Wolcott	1.50	1.50
Crane	1.50	1.50
Hill	1.00	1.00

Violets, Princess Wales.....\$1.00
Vinea Variegata.....1.00
Chrysanthemums, Nivens, Robinson, Mrs. J. Jones, Polly Rose, White Bonaffon, M. Bonaffon, Omega, Golden Wedding, Golden Beauty, W. K. Shaw, V. Morel and Bl'k Hawk. 1.50
Strong stock. Satisfaction guaranteed. Special prices on large quantities. Cash.

SMITH & GANNETT, - Geneva, N. Y.

Mention the Florists' Exchange when writing.

MY MARYLAND

Was the Sensation of the Chicago Exhibition Easily outranks any other White

Awarded First Class Certificate of Merit by the American Carnation Society; Lawson Bronze Medal for 100 blooms, and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are booking orders now for delivery, January, 1906.

Price, \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

Write us for other new and standard varieties.

H. WEBER & SONS
OAKLAND, MD.

Mention the Florists' Exchange when writing.

FINE CARNATIONS

Bread and Butter Varieties. Queen Louise and Genevieve Lord, rooted cuttings, \$1.00 per 100; 2 1/4 in. pots, \$2.50 per 100. Mrs. Fisher, for Summer bloom, 2 1/4 in., strong, \$2.50 per 100; rooted cuttings, \$1.00 per 100. Salvia, Clara Bedman, and Silverspot, \$1.00 per 100. Dracena Indivisa, will make fine vase plants, 4 in., \$10.00 per 100. Crimson Rambler Roses, fine plants, 2 1/4 in. pots, \$4.00 per 100. Cash with order.

WM. KEIR, PIKESVILLE, MD.
Mention the Florists' Exchange when writing.

RED SPORT CARNATION

The great "bread and butter" holly-berry pink. Early and continuous, sure crop for Christmas, never splits, strong healthy grower. 2 1/2 to 3 in. flower on a long wiry stem that will support the blooms; an easy doer and an all around money maker. Nough said. Price, immediate delivery, 12 for \$1.50; 25 for \$2.50; 50 for \$4.00, all postpaid. \$5.00 per 100; \$50.00 per 1000.

Queen Louise The standard white, strong healthy, well-rooted stock \$1.25 per 100, postpaid; \$10.00 per 1000.

We Guarantee Satisfaction.

A. B. DAVIS & SON, Carnation Specialists, Purcellville, Va.

Mention the Florists' Exchange when writing.

Carnation Richmond Gem

Established in 2 1/2 in. pots, \$10.00 per 100. Will have other good varieties later.

ROSES

2 years old, in 4 in. pots; also Roses in 2 1/2 in. pots.

Geraniums, Heliotropes, Salvias, Ferns, Asparagus Plumosus, Asparagus Sprengerii, Chrysanthemums, Petunias, and a general line of Miscellaneous Stock. Send for List.

The National Plant Co., Dayton, O.

Mention the Florists' Exchange when writing.

500,000 VERBENAS 60 Varieties

THE LARGEST AND FINEST STOCK IN THE COUNTRY
Perfectly Healthy No Rust

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

300,000 CARNATIONS Rooted Cuttings, Clean and Healthy

CRISIS, New Commercial Carnation, \$12.00 per 100; \$100 per 1000

	Per 100	Per 1000		Per 100	Per 1000
Mrs. Patten	\$6.00		Enchantress	\$3.00	\$25.00
Judge Hinsdale	4.00		Mrs. Lawson	2.00	15.00
Lady Bountiful	5.00		Adonis	2.50	20.00
Flamingo	6.00		Harry Fenn	2.00	15.00
Dorothy Whitney	3.00		Gov. Roosevelt	1.50	12.00
Golden Beauty	3.00		Mrs. Potter Palmer	1.25	10.00
Buttercup	3.00		The Queen	2.50	20.00
Prosperity	2.00		Mrs. E. A. Nelson	1.50	12.00
Mrs. J. H. Manley	2.50		White Cloud	1.50	12.00

60,000 GRAFTED ROSES For Forcing

THE FINEST CROWN

Orders booked now for delivery in April, May and June
LIBERTY Rose pots, \$12.00 per 100; 3 1/4 Inch pots, \$18.00 per 100
BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN Rose pots, \$10.00 per 100; 3 1/2 pots, \$15.00 per 100

J. L. DILLON Bloomsburg, Pa.
Mention the Florists' Exchange when writing.

Strong Rooted Carnation Cuttings

Per 1000		Per 1000	
Enchantress.....	\$26.00	Adonis.....	\$20.00
Lord.....	9.00	Flamingo.....	40.00
Lawson.....	10.00	Estelle.....	15.00
Angel.....	9.00	Bradt.....	10.00
Gov. Wolcott.....	10.00	Mrs. M. A. Patten.....	40.00
Flora Hill.....	9.00	Peru.....	8.00
Boston Market.....	20.00	Queen Louise.....	7.00

Cash or C. O. D.
SOL GARLAND, Des Plaines, Ill.
Mention the Florists' Exchange when writing.

J. D. THOMPSON CARNATION CO.

JOLIET, ILL.

Carnations Our Specialty

Mention the Florists' Exchange when writing.

Rooted Cuttings

For Immediate Delivery
The Queen, best white... \$2.25 per 100
Mrs. Patten, best variegated 4.00 "
Red Lawson, best red... 10.00 "
Pink Lawson, best pink... 2.50 "
White Lawson, fancy white 6.00 "
Unrooted cuttings, one half.

HENRY EICHHOLZ, Waynesboro, Pa.
Mention the Florists' Exchange when writing.

Carnations

SELECTED ROOTED CUTTINGS	
CLEAN, HEALTHY STOCK FROM SAND AND SOIL	
	per 100 1000
Enchantress.....	\$ 3.60 \$ 30.00
Queen.....	2.50 20.00
Lawson.....	2.00 15.00
Wolcott.....	2.00 16.00
Queen Louise.....	2.00 16.00
Genevieve Lord.....	1.25 10.00
Floriana.....	1.50 12.50
Flancee.....	12.00 100.00

Careful packing. Stock guaranteed satisfactory in every way.
ROBERT C. PYE, NYACK N. Y.
Mention the Florists' Exchange when writing.

ROOTED Carnation Cuttings

Good, clean stock, well rooted.

Per 100		Per 1000	
Lawson.....	\$1.00	White Cloud.....	\$1.00
Queen Louise.....	1.00	Norway.....	1.00
Gov. Roosevelt.....	1.25	Prosperity.....	1.25
Lorna.....	1.00		

Will exchange for 2 or 3 inch pot Geraniums, Stocks, Verbenas, Feverfew. Or let us know what you have for exchange.

STAFFORD FLORAL CO., Stafford Springs, Ct.
Mention the Florists' Exchange when writing.

ROOTED Carnation Cuttings

All orders filled in rotation.

Mrs. M. A. Patten, Var.....	Per 100 \$6.00
Flamingo, scarlet.....	6.00
Albatross, white.....	5.00
Enchantress.....	3.00
Queen, white.....	3.00
Boston Market, white.....	3.00
Queen Louise.....	2.00
Lawson.....	2.00
J. H. Manley, scarlet.....	2.00
Challenger.....	2.00

Write for prices on large lots. 5 per cent. discount for cash with order.
JAMES D. COCKCROFT, Northport, N.Y.
Mention the Florists' Exchange when writing.

PROSPECTOR RED SPORT FROM MACEO

Color equal to Estelle, but producing at least four times as many blooms as that variety, and without doubt the best money-making scarlet ever put on the market, producing more blooms to the square foot than any variety now grown.
It is at its best for Thanksgiving and the Christmas Holidays, when bright colors are most in demand, easily bringing 75c. to \$1.00 per doz.
Easy grower, free from disease, and, like its parent, can be planted close, as there is no surplus green, every shoot producing a flower.
We have a large stock of this variety, and all cuttings will be guaranteed free from disease, well rooted, carefully packed, and orders will be filled strictly in rotation. Price, 12 for \$1.25; 25 for \$2.00; 50 for \$3.50; 100 for \$5.00; 1000 for \$45.00; 5000 for \$200.00.

COME AND SEE THE STOCK GROWING
H. W. FIELD, Northampton, Mass.
Mention the Florists' Exchange when writing.

CARNATIONS.

Keep a Close Watch.

As the days are getting longer and the sun much stronger, the young plants, as well as the old ones, will begin to make more rapid growth, and in order to prevent them experiencing any check, care must be exercised in the watering. Examine the benches that contain the old plants every day, and see that at no time do they suffer for the want of water. The south side of the benches will almost always dry out first, and the space closest to the side board of the bench will have to be watered two or three times in order to keep it moist any length of time and to have moisture clear to the bottom of the bench. From the nature of the weather we have just passed through, being dark and cloudy, with the sun weak in its rays, the plants cannot help being somewhat soft in growth. Then if dry at the roots when Spring sets in, it will check their growth, and what growth they do make will not have the required substance.

If the soil is well filled with roots and the growth is strong and healthy it would be a good time to apply a mulch of rotted cow or horse manure put on about two inches thick. But let the soil get good and dry, or just wet enough to keep the plants from wilting; then water thoroughly.

Keep a close watch on young stock for next year. Go over the plants three times a day and see that they are not dry and still not too wet. Keep the soil moist to the bottom of the pot, not muddy. By watering carelessly and repeatedly those that do not need it disease is encouraged. If the plants are making nice growth and are in good shape to report, do the work at once. It is best not to put any manure in the soil unless the soil is very poor, and then be careful not to put in too much fertilizer. It is not necessary to have a large plant at this date. My ideal plant is one that has been growing in a temperature of 60 degrees, in soil without any manure and at this date having been topped back once.

Topping Young Stock.

Allow the plants to grow tall enough so that there is quite a space between joints, say about one inch. Don't wait until the bud is set, as this draws the plant out too much and takes too much away from it. Don't top the cuttings by pulling out the heart, as this leaves a pocket for the water. Besides, the plants have to make the required growth before they will begin to break, so leave them grow on until there is the required space between the leaves.

As to topping varieties, high or low, there is quite a difference in some of the sorts. Take White Cloud, Indianapolis, Harry Fenn, Governor Lowndes, Richmond Gem and The Queen; these should always be topped down to two eyes that you are sure will break. In the case of Mrs. Lawson, Enchantress, Lady Bountiful, The Belle and Variegated Lawson, you can leave three or four eyes, but you should not top again until the new growth has obtained the required length.

CHAS. KNOFF.

The Lewis Conservatories

MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist
Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

	per 100	1,000
WHITE.....	Queen.....	\$2.50 \$20.00
	Queen Louise.....	2.00 16.00
	Enchantress.....	3.00 25.00
PINK.....	Lawson.....	2.00 15.00
	Fair Maid.....	2.00 15.00
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Mention the Florists' Exchange when writing.

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Wholesale Florists
RICHMOND, IND.
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WHITE LAWSON
Rooted Cuttings, \$5.00 per 100.
Mrs. Patten, \$5.00 per 100.
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THE FINEST SCARLET. LARGE FLOWER. LONG STEM. NEVER FADES. NEVER BURSTS. PERFECTLY HEALTHY. THE BEST SHIPPER. BRINGS THE HIGHEST PRICE. THOROUGHLY TRIED. A MONEY MAKER.

PRICE: \$12.00 per 100; \$100.00 per 1000.
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CARNATIONS

Wm. Penn, a promising pink novelty, the greatest bloomer ever happened. From soil, \$10.00 per 100; 25 for \$2.50. Queen Louise, from soil, \$10.00 per 1000 Floriana, from soil, \$12.50 per 1000.

BIG BATCH OF CUTTINGS FROM SAND, READY MARCH 20
GERANIUMS ROOTED CUTTINGS
Next delivery March 27. \$10.00 and \$12.50 per 100.

100,000 Smilax, 50,000 Asparagus Sprengerii, 50,000 Asparagus Plumosus and Robustus. Ready June 1. Send for Prices.

SEND FOR MARCH PRICE LIST

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

\$12.00 per 100
\$100.00 per 1000
250 at 1000 rate
VICTORY
TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

WHITE LAWSON.....	\$6.00 per 100	HARRY FENN.....	\$2.00 per 100
NELSON FISHER.....	6.00 "	GOETHE, light pink.....	2.00 "
MRS. PATTEN.....	6.00 "	GENEVIEWE LORD.....	1.50 "
ENCHANTRESS.....	3.00 "	MANLEY.....	3.00 "
PROSPERITY.....	2.50 "	MACEO.....	1.50 "
THE BELLE.....	6.00 "	CERVERA.....	1.50 "
LADY BOUNTIFUL.....	6.00 "	LAWSON.....	1.50 "

5 per cent. discount for cash with order. Send your orders early.

ALEXANDER J. GUTTMAN

52 W. 29th St., New York City.

Mention the Florists' Exchange when writing.

WE CAN SHIP

WHITE LAWSON

AT ONCE

We sent this variety out last season; it has given general satisfaction.

Our Stock Is Pure White

Rooted Cuttings, \$7.00 per 100; \$60.00 per 1000. Special prices on larger quantities. Send for our Catalogue.

CHICAGO CARNATION COMPANY

James Hartshorn, Mgr. JOLIET, ILL.

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A [Weekly] Medium of Interchange for Florists, Nurserymen, Seedsmen and the Trade in general.

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

News of the Week in Brief.

J. I. Gurney, a florist of Dorchester, Mass., is in financial difficulties.

Fred Burki, of Pittsburg, fell into a pit last week, breaking several of his ribs.

Nurserymen are discussing the subject of a uniform system of grading nursery stock.

William Elliott & Sons, New York, will begin their auction sales of the season on Tuesday, March 14.

William Sim, of Cliftondale, Mass., disposed of some 25,000 violets this week, the product of a day's gathering.

The Pittsburg Florists' Club has forbidden smoking during its sessions. And the smoky city is the home of the "stogy."

John Walsh, the popular manager of the Park Street Flower Market, Boston, is still confined to his home through illness.

Charles T. Slebert, a well-known florist of Pittsburg, Pa., and inventor of a popular glazing point, is dead. He was 53 years of age.

The Chicago Carnation Company, of Joliet, Ill., is shipping large numbers of plants to Great Britain and other European countries.

Spectal prizes are already being donated for the coming show of the Chrysanthemum Society of America, to be held in Philadelphia next Fall.

Cards are out for the marriage of J. McHutchison, the well-known importer of New York, to Miss Grace Elizabeth, daughter of W. W. Edgar, Waverly, Mass.

Several valuable additional prizes have been offered to the list of The American Rose Society for the exhibition to be held March 23-26 next. A grand show is now assured.

It will be Rose Night at the New York Florists' Club Monday evening, March 13. A fine exhibition, and a paper on "The Rose in Decorative Art," by Robert Kiff, of Philadelphia, will be the features.

W. Atlee Burpee & Co., seedsmen, Philadelphia, have purchased an 86-acre tract in New Jersey for experimental and trial grounds. This is in addition to the already large Doylestown (Pa.) farm.

The holding of a Scotch concert in Newport, R. I., last week was the cause of the postponement of the monthly meeting of the local horticultural society. What charms the music of the Land of the Heather must have for Newport horticulturists.

A State Florists' Association of Illinois is in contemplation. If organized, it will bend its energies toward securing the passage of the measure before the State Legislature, asking for an appropriation of \$30,000 for State experimental work in horticulture, with particular reference to greenhouse culture.

THIS WEEK'S SUPPLEMENT.

Thicket of Magnolia Grandiflora.

It is not surprising that the Europeans think so highly of our Magnolia grandiflora, for it ranks high among the many varieties of broad-leaved evergreens. Here, in the Northern States, the rhododendron holds first place, but this is because it will survive our coldest Winter, which the evergreen magnolia will not. Where it will, as in many parts of Europe and in our Southern States, there is absolutely no evergreen to be compared with it. Even as far up from the South as Philadelphia we get along with it by planting it in sheltered, well-drained places, where it will ripen its wood thoroughly before Winter comes. When in deep, damp ground it will continue its annual growth almost until frost sets in, and its unripened wood is then sure to be partly Winter-killed. Several we know of about Philadelphia are in such unsuitable positions, and they are partly killed back every Winter. Others on high ground, and more exposed, are not injured, and there are several large specimens of it in that city. Just across the Pennsylvania line, at Claymont, Del., there are nice trees of it, and at Wilmington, in the same State, they begin to feel at home, and can be planted wherever one will.

How this magnolia thrives at Washington, D. C., can be seen by noting the fine group our illustration represents, growing close to the Capitol Buildings there. It is intended as a magnolia group, although English hollies, aucubas and small shrubs, such as Abella rupestris, are at the base of the magnolias. We think all will concede that no other broad-leaved evergreen would have answered as well, where these magnolias are. The large growth and large, lustrous leaves are just what were wanted to front such a building as these do.

It was the close of June when the photograph reproduced was taken, and the trees were then in flower. Some of the large white blossoms have been caught by the camera, but one has to see them in their natural state to know how beautiful they really are. In many places near this building there are grand specimens of this magnolia. They get shelter, especially on the southeast side. To prove that it is more temperate there than may be thought, it may be said that, growing on a wall below this magnolia group is the Picus repens, which all our readers know is not hardy enough to do the same anywhere north of Washington.

JOSEPH MEEHAN.

A Valuable New Book.

SPECIES AND VARIETIES, THEIR ORIGIN BY MUTATION. By Hugo de Vries, Professor of Botany in the University of Amsterdam, Holland, Edited by Daniel Trembly MacDougal, Assistant Director of the New York Botanical Garden. Publishers, The Open Court Publishing Company, Chicago. 8mo, xviii + 847 pp.

The volume before us, one of the most valuable that has appeared on the subject of the origin of species since Darwin gave to the world his great work with that title, is composed of a series of 28 lectures delivered by Professor de Vries at the University of California last year. In his preface, the author informs us that comparative studies have contributed all the evidence hitherto adduced for the support of the Darwinian theory of descent, and given us some general ideas about the main lines of the pedigree of the vegetable kingdom, but the way in which one species originates from another has not been adequately explained. The current belief assumes that species are slowly changed into new types. In contradiction to this conception, the theory of mutation assumes that new species and varieties are produced from existing forms by sudden leaps. The parent type itself remains unchanged throughout this process, and may repeatedly give birth to new forms. These may arise simultaneously and in groups, or separately, at more or less widely distant periods. The theory of Professor de Vries is confirmed by his own observation and experiments in the case of the large evening primrose, from purely fertilized seeds of which mutants, both feral and cultivated, arose so different from the type as to constitute new species. Dr. MacDougal, by his cultures of the mutative species of this primrose in the New York Botanical Garden (see February, 1905, Journal), has contributed additional proof to the validity of de Vries's views. Dr. de Vries's discovery places the method of origin of species within the range of experimental investigation, and it is with the view to secure a more general appreciation of this kind of work that his lectures were delivered and published.

The author furnishes the following definition of species: "Species are considered as the true units of nature by the vast majority of biologists. They have gained this high rank in our estimation principally through the influence of Linnæus. They have supplanted the genera which were the accepted units before Linnæus. They are now to be replaced, in their turn, by smaller types, for reasons which do not rest upon comparative studies, but upon direct experimental evidence. Further on he states elementary species are of equal rank and together build up the collective or systematic ideal species. Varieties, on the other hand, are derived from a real and commonly still existing type. There is a general belief among gardeners that varieties are distinguished, as such, from species by their inconstancy. It must be conceded to be a fact, says the author, that varieties as

a rule revert to their species under the ordinary circumstances of commercial culture. And I cannot see any reason why this fact should not be considered as stating a principal difference between varieties and species, since true species never sport into one another. According to my view, nearly all these ordinary reversions are due to crosses. Varieties by means of such spontaneous intercrossing sport into one another, while species either do not cross, or, when crossing, produce hybrids that are otherwise constituted and do not give the impression of atavistic reversion.

The professor's first lecture is devoted to the Theories of Evolution, those of Lamarck, Linnæus, Darwin, Wallace and others being discussed. "One of the greatest objections to the Darwinian theory of descent arose from the length of time it would require if all evolution was to be explained on the ground of slow and nearly invisible changes. This difficulty is at once met and fully surmounted by the hypothesis of periodical, but sudden, and quite noticeable steps. This assumption requires only a limited number of mutative periods, which might well occur within the time allowed by physicists and geologists for the existence of animal and vegetable life on the earth." The second lecture deals with the elementary species in Nature, followed by one on elementary species of cultivated plants, in which the subject of variability of plants under cultivation is considered. The subject of selection of elementary species is next treated on.

Every region and locality has its own conditions of climate and soil. Any ordinary mixed race will contain some elementary forms which are better adapted for a given district, while others are more suitable to divergent conditions. Hence it can readily be inferred that the choice cannot be the same for different regions. Every region should select its own type from among the various forms, and variety-testing, therefore, becomes a task which everyone must undertake under his own conditions. Some varieties will prove, after isolation, to be profitable for large districts, and perhaps for whole states. Others will be found to be of more local value, but in such localities to excel all others.

The next lecture is devoted to Retrograde Varieties. This is followed by a most interesting chapter on Stability and Real Atavism. In the discussion of this question the author has excluded such plants as roses, hyacinths, tulips and chrysanthemums, which always have furnished the largest contributions to the demonstrations of bud variations. "They have been crossed so often that doubt as to the purity of any single form may recur, and may destroy the usefulness of their many recorded cases of bud-variation for the demonstration of real atavism." So with azaleas, camellias, carnations and some other subjects. On the other hand, there is a larger group of cases of reversion by buds, which is probably not of hybrid nature, nor due to innate inconstancy of the variety, but must be considered as pure atavism—viz., bud variations of so many of our cultivated trees and shrubs. Professor de Vries points out that there is a wide field open for investigation as to whether the plants from seeds secured from these atavistic branches (such of them as flower) will keep true to the reverted character or return to the characters of the plant which bears the retrograde branch. He says:

The possibility is always to be considered that the tendency to bud reversions may be a special feature of some individuals and may not be met with in others of the same variety. For the practical student it indicates that a specimen, once observed to produce atavistic buds, may be expected to do the same thing again. And then there is a very good chance that by combining this view with the idea that dormant buds are more apt to revert than young ones, we may get a method for further investigation. If we recur to the practice of pruning. By cutting away the young twigs in the vicinity of dormant buds, we may incite these to action. Evidently we are not to expect that in so doing they will all become atavistic. For this result is not at all assured; on the contrary, all that we might hope to attain would be the possibility of some of them being induced to sport in the desired direction.

False atavism or "vicinism" is then dealt with, the latter term being derived from the Latin "vicinus," or neighbor, as indicating the sporting of a variety under the influence of others in its vicinity.

Space will not permit of a reference to all the chapters in this most instructive book. It may be worthy of mention, however, that in his lecture dealing with the production of double flowers, the author states that he has never been able to ascertain the grounds on which the conviction rests that varieties are improved by continued culture. Double varieties, as a rule, are exactly the same now as they were at the time of their first introduction. If this were otherwise, one would expect that young double varieties should in the main display only slight grades of the anomaly, and that they would require centuries to reach their full development. Nothing of the kind is on record. On the contrary, the newest double sorts are said to be not only equal to their predecessors, but to excel them. As a rule, such claims are exaggerated, but not to any great extent.

The following particulars regarding the improvement of the canna are of great interest. They are found in the lecture on Fluctuations; Multiplication of Extremes:

About the year 1889 Crozy exhibited at Paris the first beautifully flowering form which he named after his wife, "Madame Crozy." Since that time he and many others have improved the flowers in the shape and size, as well as in color and its patterns. In the main these ameliorations have been due to the discovery and introduction of new wild species possessing the required characters. This is illustrated by the following incident: In the year 1892 I visited Mr. Crozy at Lyons. He showed me his nursery and numerous acquisitions, those of former years as well as those that were quite new, and which were in process of rapid multiplication previous to being given to the trade. I wondered and asked why no pure white variety was present. His answer was: "Because no white species had been found up to the present time, and there is no other means of producing white

varieties than by crossing existing forms with a new white type."

Lemoine's work on the double lilacs is also referred to. In the main, they owe their origin to the crossing and recrossing of a single plant of the old double variety with the numerous existing single-flowered sorts.

And of the amaryllis and gladiolus it is stated: "Eight or ten, or even more, species have been combined into one large and multiform strain, each bringing its peculiar qualities into the mixed mass. Every hybrid variety is one individual, being propagated by bulbs only. Colors and color-patterns, shape of petals and other marks, have been derived from the wild ancestors. But the large size of many of the best varieties is probably due to the selection of the extremes of fluctuating variability."

We shall close this reference to Dr. De Vries's admirable work by quoting part of what he has to say regarding improvement by selection.

Continuous or even prolonged improvement of a cultivated race is not the result of frequently repeated selection, but of the improvement of the standard of appreciation. Nature, as we know changes her standard only from time to time in consequence of the migration of the species, or of local changes of climate. Afterwards the new standard remains unchanged for centuries. Selection, according to a constant standard, reaches its results in few generations. The experience of Van Mons and other breeders of apples shows how soon the limit of size and lusciousness may be attained. Vilmorin's experiments with wild carrots, and those of Carrière with radishes lead to the same conclusion as regards roots. Improvements of flowers in size and color are usually easy and rapid in the beginning, but an impassable limit is soon reached.

Those striving for the six-inch carnation, and those fearful lest it should be attained, would do well to note these remarks. They may give consolation to both parties.

We commend this work to every one interested in the study of this, the most important phase of plant life. Copies of the book can be obtained from the publishers of The Florists' Exchange.

OUR READERS' VIEWS

The Brown Company Granted Injunction.

Editor Florists' Exchange:

We are advised that Judge Anderson rendered a decision to-day (March 2) in the United States Federal Court at Washington, granting an injunction in the suit recently brought by us in that court to restrain the infringement of our patents by the Department of Agriculture and their contractor in putting up the Congressional seeds for distribution the present year. This is the case in which the Secretary of Agriculture asked the Attorney General to intervene on behalf of the United States on the ground that the granting of the injunction would be a great public calamity and would paralyze the distribution of seeds for the remainder of the current year.

BROWN BAG FILLING MACHINE CO.

Fitchburgh, Mass.

The Boston Flower Show

Editor Florists' Exchange:

A few more words on this subject and we are done. We are glad to learn Mr. Duncan was in good humor when he penned his remarks in a previous issue and was burning with a desire to aid the committee in their labors, for which I feel sure the members are deeply grateful and will gladly reciprocate when a suitable occasion offers itself.

Mr. Duncan proceeds to state that "he cannot change his opinion" on some aspects of the situation and trots out the words "unfair," "antiquated," "by no means up to date" and so forth, to give expression to the depth of his feelings. We agree with him that "it is not necessary for the committee to retire after the judging is done and take an hour or two, as the case may be, to write a set of cards for the awards." It took exactly twenty minutes to write the cards on the last occasion, and place them on the exhibits. When has it taken from one to two hours?

We are not especially concerned with the fact that some other societies, which hold one, or, at most, two exhibitions a year, go to the trouble of numbering the exhibits and placing the names in sealed envelopes. Perhaps Mr. Duncan is unaware of the fact that the Massachusetts Horticultural Society tried this plan for one year, not very long ago; it increased the labors of the committee, with no compensating benefits. It caused more growling from exhibitors and visitors than appeared in Mr. Duncan's report of the late show. We have never found that leaving exhibitors' names on caused dissatisfaction or any partiality in judging, and we follow the Boston shows closely for a decade ere our good friend and critic made the Hub his stamping ground.

Perhaps to some others, as well as to Mr. Duncan, the committee's work of the Massachusetts Horticultural Society may seem "peculiar" and not "up to date, 20th century." We can assure such that these committees are composed of wide-awake, practical men, who are leaving no stone unturned to further the society's interests, and that whenever they are satisfied that they can make innovations likely to be of great benefit, they won't hesitate to adopt them.

While we do not imagine for one moment that Mr.

Duncan was serious in some of his statements, which we knew were meant to make the members of the flower committee scratch their heads and smile, we are glad he has not attacked them previously in The Florists' Exchange. They will now endeavor to walk more circumspectly, act more speedily, strive to be "up to date and 20th century" boys, and, mayhap, merit in the future some words of commendation from his pen.

W. N. CRAIG.

Packing Seeds for Transportation.

Editor Florists' Exchange:

In The Florists' Exchange February 25, 1905, page 228, there appeared a brief abstract of a short article by Mr. W. Watson, of Kew, on "Seed Packing," which appeared in the Gardeners' Chronicle for February 11, 1905, page 90.

Mr. Watson says: "I can strongly recommend damp cocoanut fibre and wooden boxes for all seeds that perish easily and can be conveniently packed in them." There are many seeds in which the power of germination is destroyed if they are allowed to become thoroughly air-dried. In order to transport this class of seeds successfully, they must be packed in some moist material to prevent drying out. The use of moist cocoanut fibre and wooden boxes as recommended by Mr. Watson is undoubtedly as good, if not better, than sphagnum or charcoal, which are so generally used.

Continuing the article of Mr. Watson's we read: "For seeds generally, I know nothing better than paper packets and calico bags, and the more moisture there is in the seeds themselves when thus packed, the better. Hermetically sealed tins or cans should never be used."

It is quite unfortunate for the seed trade that Mr. Watson made these last two statements. Carefully conducted experiments have shown that just the opposite treatment should be given to seeds generally—that is, agricultural and garden seeds as we know them in the temperate regions. It is possible that seeds, even though they contain a high percentage of moisture, may be put up in paper packets or cloth bags and still retain their vitality, if kept in a dry climate, so that the seeds will have an opportunity to dry out ultimately. But vitality is much better preserved and the resulting seedlings more vigorous, the more thoroughly the seeds are dried before putting into packages.

The greatest factor in destroying the vitality of seeds generally is moisture. In all cases, excepting the special kinds of seeds which lose their power of germination on becoming dry, the best results are obtained when the seeds are carefully dried and packed in hermetically sealed containers. Seeds put up in this way will remain germinable equally well in all countries. However, if seeds are to be packed in hermetically sealed containers, it is necessary that they be dried at a temperature slightly higher than any degree of heat to which they will be afterward subjected. If this precaution is not taken, the seeds will be confined in a humid atmosphere, and vitality will be destroyed in a comparatively short period.

Many seedsmen now use the hermetically sealed containers for the transportation of seeds to tropical and sub-tropical countries. Sutton Brothers, of England, have an exceptionally large export trade because they have adopted the method of packing seeds in this way.

In order to show the increased value in seeds when carefully dried and put up in air-tight containers to guard against the entrance of any moisture, I give the following data, taken from Bulletin 58, Bureau of Plant Industry, U. S. Department of Agriculture—"The Vitality and Germination of Seeds." This seed was stored at Mobile, Alabama, from December 20, 1901, to April 30, 1902, 131 days.

Cabbage seed from paper packages germinated 60 per cent.
Cabbage seed from sealed bottles germinated 84 per cent.
Onion seed from paper packages germinated 19.5 per cent.
Onion seed from sealed bottles germinated 86 per cent.

At present we have seed stored in paper packages and sealed bottles at sixty different places to show the effect of climatic conditions on vitality. Unpublished data of seeds from some of these places are as follows: Onion seed from paper packages, after being stored one year in Kingston, Jamaica, germinated only 4 per cent., while seed from sealed bottles germinated 87 per cent. Puerto Principe, Cuba, 0 per cent. and 82 per cent., respectively. Key West, Florida, 3 per cent. and 83 per cent. Lettuce seed stored one year in Manila, Philippine Islands, germinated 0 per cent. and 95 per cent. from the paper packages and bottles, respectively. Bridgetown, Barbadoes, 0 per cent. and 94 per cent. San Juan, Porto Rico, 0 per cent. and 96.7 per cent. Seeds stored in dry climates remained viable equally well in the envelopes and bottles.

The secret of keeping our common garden and field seeds is to dry them thoroughly and keep them dry. U. S. Department of Agriculture, J. W. T. DUVEL. Washington, D. C.

BENJAMIN HAMMOND, of Fishkill Landing, N. Y., the "Slug Shot" manufacturer, has donated to the Board of Education of his home town a sum of money, the annual interest from which shall be used in perpetuity as prizes for boys and girls in competitions in orthography and penmanship.



Charles T. Siebert.

Charles T. Siebert, the well-known florist and grower, of Pittsburg, Pa., died March 7, after an illness of some five years or more, at the age of fifty-three years. Mr. Siebert was born in Pittsburg. In his young days he took a fancy to the florist trade, going to Peter Henderson's establishment in Jersey City, to learn it, and from there to several places in the New England States. In 1876 he returned to his native city and shortly afterward engaged in the business, first in a small way at his old home, then at his present place, one of the largest in Pittsburg. Mr. Siebert was a practical florist and understood the building of greenhouses thoroughly. The new glazing point he put on the market is said by prominent builders to be the best for all purposes and has been sold by tons. He was a good grower of carnations, and of late years devoted considerable space to the cultivation of plants to furnish his market stand and new store. The latter, just about completed, is one of the finest in the city, being located in the East End. It is in charge of Mr. Ziegers.

Mr. Siebert was a member of the Florists' Club from its beginning, and as long as he was able attended the meetings regularly. He was also a member of the S. A. F. O. H. and rarely missed any of the annual gatherings until the last few years, when sickness prevented him. He was conscientious and good natured always. Everybody liked him. His widow and three children are left to mourn his loss. The funeral was well attended by his many florist friends; the Florists' Club sent a handsome floral offering.

E. C. R.

Mrs. Charles Eickholt.

Mrs. Charles Eickholt, a florist of Galveston, Tex., died at her home on Wednesday, March 1, after a lingering illness. Mrs. Eickholt was among the sufferers by the Galveston flood.

Reflections on Current Topics.

MR. EDITOR: From the reports of the recent meeting of the New York Florists' Club I observe the members, and their ladies, were again treated to "soul-stirring Scottish songs" with bagpipe music thrown in; and that two worthy Scots—mentioned particularly—were "giving signs of exaltation (this statement is vague) before the music of the bagpipes ceased." I presume the remainder of the audience, not exalted, were in the position of the man whose imagination compared the sounds emanating from the instrument in question to those of the eternally tormented, or what Hudibras says of it:

"Bagpipes of the loudest drones
With snuffing, broken-winded tones,
Made a viler noise than swine
In windy weather when they whine."

The New York Florists' Club members have my most sincere sympathy, when, from choice or compulsion, they complacently listen to the bagpipes—one of the few remaining barbarisms of Scotland. The instrument may, as my friend Wm. Falconer says, give grace to the movements of Highlanders on a bill far removed from the haunts of man, and, methinks, these are the only people such sounds could possibly make graceful, but for a parlor or club room performance—the dulcet strains of the Jew's harp for mine, accompanying songs of the New Jerusalem.

I notice, from David Rust's remarks in a late issue that the amende honorable is due to "Phil." It is cheerfully and willingly made. When I think of it, the answers to the questions in question are enough for one person to be held responsible for.

The return of our good friend and counsellor, William Scott, to the scribbling arena, is a source of much thankfulness to us all, I am sure. But what is this I read from the facile pen of William? "There are no foolish sports injected into the meetings to disturb the business of the convention and attract the light-brained brigade away from what they came to see and hear." Thus writes he of the annual convention of the American Carnation Society. Is this an instance of a wise man changing his mind? Not so long ago, the same writer, if I mistake not, was accused of making foolish remarks regarding the great usefulness of bowling to a certain society, and the uselessness of the men to anybody or anything who attended conventions only to talk "shop." Do more of the "light-brained brigade" belong to the S. A. F. than to the Carnation Society, so that provision has perforce to be made by the former for their follies; or was Scott merely playing to the galleries again? Is an egotistic enough to believe, however, that his mind has been changed regarding this "foolish sports" matter, by reading the views thereon of Jimmie and JOB.

ROSES

Roses, the New and Promising Varieties.

(Read by P. J. Lynch, Secretary-Treasurer of The Duges & Conard Company, before the Philadelphia Florists' Club, Tuesday evening, March 7, 1905.)

Your club has ever been in the front rank in furthering the popularity of the rose, while the fame of your growers did, a bunch of that beautiful rose of Philadelphia origin, Queen of Edgely, savored of a pace rather difficult to overtake. Then, too, while the origin of the ever popular American Beauty (or, as has been claimed, Mme. Ferdinand Jamin) is somewhat obscure, yet it first attained prominence as a commercial variety through the foresight of a Philadelphia grower. Liberty, now so thoroughly established as a forcing variety, came into prominence through the efforts of a Philadelphia grower. Even

bodes well for the future of the rose, and should prove a stimulus to American hybridizers, who may feel assured if their creations have merit that the rose-loving public will be quick to give them deserving recognition.

It seems fitting that I recommend at the outset that sensational new rose, Mme. Norbert Levavasseur, or Baby Rambler. This vivacious French debutante is the rose that blooms every day in the year.

Growing in its full vigor 20 inches high, with finely polished dark green foliage, with which it is abundantly supplied, it forms a compact bush, which with ordinary care is a mass of shining crimson beauty. For every purpose from the florists' standpoint it possesses the highest value, and for the amateur it is equally valuable. It is, indeed, a perpetual blooming, dwarf Crimson Rambler.

In the Rambler class may be also mentioned a variety that does not seem to gain the recognition it deserves as a rose of splendid worth—Dorothy Perkins. It is a true Rambler, particularly valuable for Christmas work, and equally as valuable in the open ground; thoroughly hardy, bearing in large clusters beautiful, clear, shell-pink flowers, of excellent substance. Philadelphia Rambler, a recent introduction, bears out all that is claimed for it, and in some respects is an improvement over the old reliable Crimson Rambler.

One of the most unique and valuable of the newer

as free blooming; immense, bright, clear pink flowers. We cannot omit Winnie Davis, one of the fairest of the newer hybrid tea roses; very free blooming, of good habit of growth, with immense, long, heavy buds, splendidly formed, developing into unusually large flowers; color, bright apricot-pink, shading flesh tint at the base of petals.

Right here I wish to compliment our American rose growers upon the splendid results achieved in producing new roses of merit. Fully conscious of what our brothers across the sea have done for the rose, for which we are indebted to them, I would say naught against the magnificent work they have done, and are doing. Unlike our American growers, however, who hesitate to offer a rose unless it be of pronounced merit, from my own personal experience, each year hundreds of varieties are produced in Europe, many of which have little or no merit to commend them. I know of nothing that is so fraught with pleasure, as well as disappointment, as the trying out of new roses, and it has been the practice of our company up until recent years to try out the new roses of Europe as they have been introduced, and I can say that the large majority of these new varieties of foreign origin have been disappointing. Therefore our American growers are to be not only congratulated, but also commended, upon the work they are doing, and the precaution shown in introducing any and every seedling they originate.

I need not call attention to Mr. Hill's splendid new rose, Richmond. It has spoken for itself, and, as a candidate for popular favor in the class of red forcing roses, it seems to be a decided improvement over any we have at this time. Rosalind Orr English is another promising hybrid tea. John Cook, to whom we doff our hats as one of the veteran introducers of meritorious new roses, contributes Cardinal, a beautiful crimson hybrid tea, and Enchanter, an extremely free blooming variety, with large, clear, bright pink flowers. Mr. Cook selects this variety as the best of over 500 seedlings. Let me recommend Souvenir de Pierre Notting as one of the best roses for all around purposes introduced in many years. It will take front rank, if not surpass from every standpoint, white and pink Maman Cochet, the best roses for Summer flowering in the open ground. This new variety is a splendid grower, throwing up beautiful flowers on long, stiff, erect stems. The bloom is large and double, opens easily and possesses unusual substance. Difficult to describe, apricot yellow, tinged with golden, mixed with orange yellow, while the edge of the petals are shaded carmine. Every florist who has a foot of ground for Summer roses should have this one. Mme. Derepas-Matrat has established itself as a companion to the Cochet roses, which it resembles in every particular, except that the color is deep yellow.

The following varieties are also among the most promising of the newer sorts: Canadian Queen is an improvement over Mrs. J. Pierpont Morgan, Mme. Cusin and Mrs. Oliver Ames, the latter of which it resembles in color; General MacArthur, a vivid crimson hybrid tea; Red Chatenay, deeper in color than the parent; Uncle John, more pronounced in color than Golden Gate; Beauty of Rosemawr, rich carmine red, valuable for outdoor purposes; La Detroit, distinct and valuable, shell pink, good for forcing; Saxonia, worth trying as an improvement over Golden Gate; Mrs. B. R. Cant, unusually valuable for amateur cultivation, better than Papa Gontier; Aurora, an improvement over Hermosa; Franz Deegen, an immense deep, double yellow rose, alike in habit and growth with Kaiserin Augusta Victoria, and far superior to Perle von Godesburg, sent out as Yellow Kaiserin; Florence Pemberton, a strong growing hybrid tea, large shell-pink flowers, good for open ground work. Maddalena Scalarandis will rank with the Cochet roses outdoors; color rich, dark pink, on yellow ground. Ideal ranks with Bridesmaid and La France, pink in color. As an example of an exceedingly rare rose, I mention the variety York and Lancaster, which dates back to the War of the Roses between the royal houses of York and Lancaster, said to have originated when these warring factions became united, its colors representing the white of the Yorkists and the red of the Lancastrians, the flower being a combination of red and white, blotched and striped. Magnafano is a free blooming hybrid tea, with large, double pink flowers. Wellesley is a remarkably free flowering forcing variety. The color is bright pink; a good keeper. For greenhouse men doing a local trade there is always a demand for a hardy ever-blooming climbing rose. To meet this demand there is no better variety than Climbing Clothilde Souper.

The list of the newer and promising varieties could be extended to considerable length, but I feel that I have already encroached too far upon the patience of you gentlemen, and in thanking you for your kind attention I wish to express the hope that I may have said something of value to growers, as well as helped deserving roses to greater popularity.

Carnation Crisis.

Editor Florists' Exchange:

We send you a photograph (reproduced) of our new carnation Crisis; also twenty-five flowers, which we hope will reach you in good order to show you the quality of the variety. As you will notice, the color is of the finest scarlet, and we feel positive that this carnation will make one of the popular varieties.

Bloomsburg, Pa. J. L. DILLON.
[The flowers arrived in perfect condition. The color is all that is claimed for the variety. Evidently, Crisis will make a good commercial carnation.—Ed.]



SCARLET CARNATION CRISIS. Grower J. L. Dillon, Blomsburg, Pa.

that much discussed variety that to-day, for amateur cultivation, is perhaps the leading rose of its color, achieved notoriety through one of your local growers. Though gallantry was at stake as to whether it should be named for the bishop or the lady, the bishop won. I refer to Balduin—Helen Gould. I might mention a host of now famous varieties, such as Wm. Francis Bennett, Souvenir de Wootton, Golden Gate, Princess Bonnie, Pink Souper, Marion Dingee and many others, whose rise to fame and popularity came through the intelligent efforts of growers of Philadelphia and its environs. With these facts in mind, I approach the subject with considerable apprehension.

I am conscious of the fact that in the brief limitations of this paper it will be impossible to cover the subject completely and accurately. I shall, therefore, give you my observations as they have occurred to me in the daily contact with over a thousand different varieties of roses, coming, as they have, from all parts of the world. I shall speak only of roses now in commerce, and while some varieties may be mentioned that are not entirely new, so far as recent origin is concerned, yet it is to be borne in mind that there are a great many roses "born to blush unseen and waste their sweetness on the desert air;" many for years remained unnoticed with their latent beauty undeveloped, until through sheer force of worth they rose to fame and glory. We have notable instances of this fact in Golden Gate and, more lately, that Irish beauty, Killarney. I shall also give equal prominence to varieties that are undoubtedly valuable, not only for forcing purposes, but those varieties appealing to amateur growers, whose ranks are constantly increasing. Of this class, for whom I feel better fitted to speak than from a strictly professional standpoint, I can say that it is a gratifying indication of the rapidly increasing love for the queen of flowers, that the average amateur enthusiast—and there are thousands of them in all sections of the land—is keenly alert to the improvements of the rose, and not infrequently has a knowledge of varieties as accurate as that of the professional grower. This growing interest of the masses

roses is Soleil d'Or, the first of a new race, a cross between Persian Yellow and Antoine Ducher. It forms a strong, sturdy bush, very robust in habit, with foliage that emits the true sweetbriar fragrance. The flowers are sunset yellow or reddish gold, and are highly fragrant; hardy everywhere; splendid for single specimens or for hedges. In this same class of hardy roses of the rugosa and sweetbriar type may be mentioned Sir Thomas Lipton, a rugosa rose. The flowers are large, very double, pure white and fragrant. It is freer blooming than any other rugosa, and will prove a splendid variety for hedging purposes. From Germany comes another great new hardy rose. Frau Karl Druschki. The flowers are almost as large as those of American Beauty, deliciously fragrant, full, deep and double. This variety may be called a free blooming hybrid perpetual, being a cross between Merveille de Lyon and Mme. Caroline Testout. The color is snow-white. Apart from Margaret Dickson we do not have a really great white rose in this class, and this variety may be considered one of the best, if not the best hardy hybrid perpetual rose of its color.

Among the newer hybrid teas of prominence and merit we have Bessy Brown, a really wonderful rose, with large, double, deep flowers, borne on strong erect stems, after the style of Souvenir du President Carnot, which it resembles in growth and somewhat in flower, but is distinct enough to deserve a place at the head of the list. We hear but little of the rose that bears the honored name of Admiral Schley, which as a pot plant possesses rare value. The color is rich, glowing, velvety crimson. The flowers have unusual substance, a valuable point, are delightfully fragrant and borne in great abundance. A clean, healthy dwarf grower, with splendid foliage. Since Killarney has become recognized as a rose of more than ordinary merit, such roses as Mme. Jules Grolez, its counterpart in color and almost equal in flower, remains unnoticed; a splendid grower, and with proper management, it should prove a strong competitor of Killarney. The list is incomplete without Lady Joy, a cross between American Beauty and Bell Siebrecht, a royal parentage; flowers large, cup-shaped, almost double, with enormous shell-like petals of good substance, highly fragrant; the color is new—lively crimson. Mrs. Robert Garrett is of the same type, but not

What Constitutes a Herbaceous Plant?

When pot plants are offered for sale, and the size of the pot is given, it conveys a very fair idea to the intending purchaser as to what to expect. The same might be said in regard to trees, shrubs and evergreens; either the height or caliper is usually given, so that there has become a recognized standard, and variations from it are very easily described, which are recognized by the initiated.

With herbaceous plants it is different. Owing to the fact that so many different plants, of such varying habits of growth, are classed under this heading, it is somewhat difficult to fix a standard. A glance at the different advertisements and lists will reveal a great variation in price; at the same time, if the higher priced stock could be examined, it would very likely prove cheaper than the lower priced stock.

Many kinds of herbaceous plants are what they are made when dug. They can be divided into any size and still be called plants, although a microscope may be necessary to count them. In ordering, it is often specified that the plants shall be strong clumps. This is a very vague term, and can be made to suit ideas at considerable variance. In addition to the lack of a fixed standard as to just what constitutes a herba-

helenium, helianthus, physostegia, golden glow, etc., should be transplanted every year to insure good, sturdy, salable plants. If left to grow into a mat of roots, it is almost impossible to dig good plants, as they break into little pieces.

A safe rule is to send out plants that have been grown one year in the nursery rows since being transplanted, whether they are from cuttings, seed or divisions.

ERNEST HEMMING.

New Transplanting Truck.

INVENTOR, PETER BISSET, WASHINGTON, D. C.

This is an entirely new departure in the line of transplanting trucks, as the illustrations show. It has a flat bed, having one end tapered to an edge, anti-friction rollers, the journals of which are on the bed below the upper surface thereof; a pair of wheels, on which the truck is supported intermediate its ends, permitting the truck to be tilted so that the uppermost plane of the bed may meet the ground, and a windlass mounted at that end of the bed opposite the tapered end, and in close proximity to the surface of the bed, effecting a pull in a direction approximately parallel to the upper plane of the bed; a band adapted to pass around the ball of the plant to be transplanted,

Home-Made Soap for Spraying.

The New York Experiment Station at Geneva, N. Y., has been giving attention to the securing of a reliable soap that can be used as an efficacious insecticide, and now recommends the subjoined formula. No elaborate equipment is required, not even a soap kettle or a fire, since boiling is not necessary.

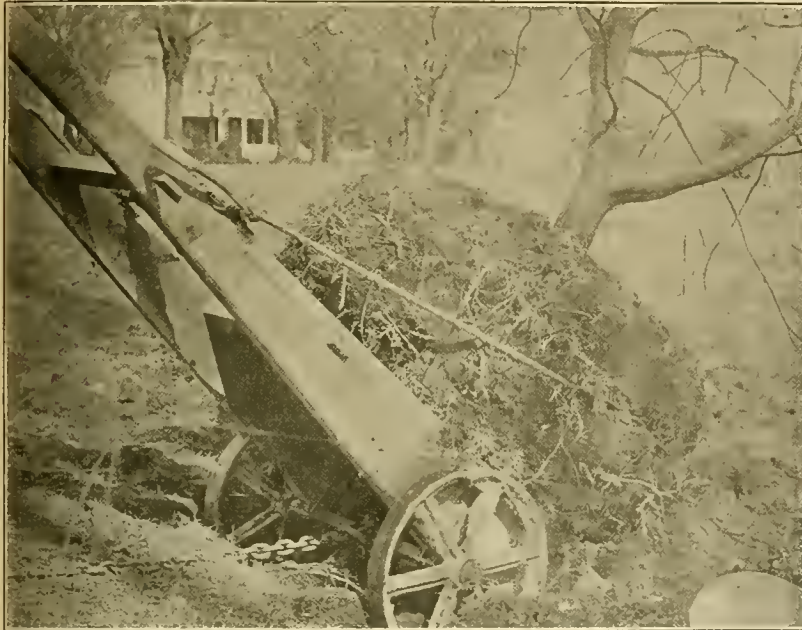
The formula to be used in making forty pounds of soap, containing 60 per cent. of actual soap, is this:

Formula for 40-lbs. Fish Oil Soap.
 Caustic soda 6 lbs.
 Water 1½ gals.
 Fish oil 22 lbs.

In making the soap, the caustic soda is completely dissolved in the given amount of water and the fish oil is then added gradually under constant and vigorous stirring. The combination occurs readily at ordinary Summer temperatures and the operation is soon completed. The mixing may be done in any receptacle sufficiently large to contain the whole amount of material. It would probably not be desirable to attempt to make more than twenty to forty pounds at a time, since the difficulty of thoroughly stirring a larger mass would tend to make a complete combination less sure, thus rendering liable the presence of too much free alkali. Complete and thorough stirring is essential to success. Caustic soda should be handled with precaution, since in concentrated form it easily injures the skin.

In experiments on willow foliage, badly affected with plant lice, this soap was used in a strength of one pound to seven gallons of water, and completely destroyed the insects.

There could, therefore, be no question as to insecticidal



Unloading a Large Tree



Loading a Large Palm]

THE BISSET TRANSPLANTING TRUCK IN OPERATION

ceous plant, the varying habits and sizes of the different plants make it still more difficult. For instance, a strong clump of Iris verna, or pumila, would differ greatly from a strong clump of Iris pallida Dalmatica or florentina, yet the former, although comparatively very small, may be more entitled to the term than the latter varieties. The large growers are, however, gradually fixing a standard on those kinds that are cultivated in quantity and in good demand, and as the stock becomes better known and more generally grown, it will be necessary for all the growers to have their stock a certain size to give satisfaction.

The general run of herbaceous plants are in the best condition for the market when one and two years old, according to the kind. Phlox, dianthus, iberis, lavandula, and, in fact, all those kinds that are grown from cuttings in the early Spring, are in the best condition for the retail market the following Fall or Spring after they have been growing in the nursery rows for one season. They should then be nice sized plants and in condition to give the purchaser the very best immediate results—much better than divisions of large plants, or the large plants themselves. If a large clump is wanted, three of these one-year-old, field-grown plants, set in a triangular shape, about a foot apart, will produce it much better than a large clump that has not been transplanted for several years. Plants raised from seeds, such as hollyhocks, columbines, foxgloves, Canterbury bells and such plants of a more biennial nature, should also be grown one year in the open ground, as they are at their best the second year; after that, they usually deteriorate.

Many of the choicer sorts are being handled in pots. This is an excellent way, especially if the plants have no body to them, but merely consist of a few delicate roots without much else, as so many of them do in the early Spring. Three to five growing points make a very suitable sized plant of iris, and could truthfully be called strong clumps. Peonies should have three to five eyes, unless it be some choice variety, when the name is purchased rather than the plant. Plants that spread with underground stolons, such as

and winding connections between the ends of the band and the windlass. This truck has been in operation for almost a year, and has proved in every way satisfactory in transplanting trees and evergreens, for moving large palms in tubs, tree stumps and heavy stones; in fact, the truck can be used to move anything that is too heavy or too large for men to carry, doing the work better, quicker, and with fewer men than by any of the older methods.

In transplanting, the tree is dug around in the usual way, and the ball undermined as much as possible; then the side of the trench is cut away the width of the truck, so as to form a runway for the truck to get under the ball. The tapered end of the truck is placed under the ball, and the belt that encircles the ball put in place. This belt is then attached to a chain from the windlass, and the whole is wound up on the truck. The truck balances by the tree resting over the wheels, and then assumes a level position, when it can be pulled out of the hole and transported to the hole already prepared for the reception of the tree. To unload, the operation is just reversed, and the tree is allowed to slide slowly into its place.

With this truck a tree can be moved without fear of loss, if ordinary care be exercised to see that a proper proportion of roots is saved. The inventor moved some very valuable trees on this truck last Spring that came through the past Summer so successfully that no one could tell that they had been recently moved; they were moved with such good balls that no pruning or shortening of the wood was required. The truck can be made of various sizes to answer all purposes, from moving small shrubs up to large trees; in the larger sizes the truck has four wheels instead of two, as in the one illustrated. With this truck a tree is moved in an upright position and is moved and planted without breaking the ball, and with such ease that few men are required, and the work being done very rapidly, the roots that are exposed have little chance to dry up. The truck is fully covered by patent rights.

PETER BISSET.

power; but was it sufficiently free from uncombined alkali to be safe for use on tender foliage? In making two lots of soap by this formula the soda was taken from a package that had been on hand some time; and the soaps showed, on analysis, less than one per cent. of free alkali. In making another lot of soap, using soda from a freshly opened package, the percentage of free alkali ran considerably higher, approaching five per cent.; and in still another lot, made after a second formula, more soda and less fish oil were used, giving a soap with 11.5 per cent. of free alkali. Solutions were made from soaps of this character and also from soap made by the first formula with free alkali added in varying amounts up to as high as twenty per cent. Each solution was made by dissolving one pound of soap in seven gallons of water. These solutions were tested upon apple, pear, plum and cherry foliage, by dipping the leaves into the solutions; and no injury resulted except when the percentage of free alkali in the soap was ten per cent. or more.

It is clear that the home-made soap is both reliable and safe. It is also somewhat less expensive than the purchased article.

Caustic soda of good commercial quality can be obtained from the Penn Chemical Co., 1322 Washington avenue, Philadelphia, Pa., at about four cents a pound, f. o. b., put up in 50-lb. cans; which with freight to New York State points should make the soda cost not more than four and one-half cents a pound. It can be obtained from druggists at six cents a pound.

Fish oil will be sold in barrel lots by Nehemiah B. Cook, 148 Front street, New York city, or by Swan & Finch Co., 161 Malden Lane New York city. The refined oil costs 29 cents a gallon (about 7 1-3 lbs.) by the barrel, the crude oil, which answers the purpose very satisfactorily, 25 cents a gallon.

The wholesale price for soda, then, is about four and one-half cents a pound, and for fish oil four cents a pound; from which we can easily compute the cost of soap, as follows:

6 pounds caustic soda at 4½ c. a pound.....	\$0.27
22 pounds fish oil at 4c. a pound.....	0.88
Total cost of materials used in making 40	
pounds of soap.....	1.15
Cost of one pound of soap.....	2.9c

Commercial whale oil soap costs at retail, in small quantities 10 cents a pound; in larger quantities, 6 cents a pound; or in barrel lots in New York city, 4½ cents a pound, with fish oil soap 3½ cents a pound.

CLUB AND SOCIETY DOINGS

Chrysanthemum Society of America.

Announcement of Special Prizes.

The following special prizes have been offered, to be competed for at the next annual meeting of the C. S. A., to be held in Philadelphia.

F. R. Pierson offers silver cup for 36 blooms, 6 blooms each of 6 varieties introduced here in 1904 and 1905.

W. Wells & Co., Earlswood, Surrey, England, offer a gold medal, a silver-gilt, and a silver medal for six flowers of chrysanthemum Mrs. Wm. Duckham. Richmond, Ind. FRED H. LEMON, Secretary.

NEW LONDON (CONN.) HORTICULTURAL SOCIETY.—A meeting of the show committee of this society was held Wednesday, March 1, to make plans for the rose show which will be held in Norwich in June. It is hoped to interest school children in the show. The committee is composed of Louis A. Giger, John Archer, Edward Clark, Albert Lawson, Otto F. Ernst of Norwich, and David Gideon. It was decided to offer two prizes in each class.

THE NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY held its regular meeting at Glen Cove March 1. One new member was elected. H. F. Meyer, gardener to Mr. George R. Sheldon, read a very interesting paper on growing mushrooms. The society held its first exhibition, carnations. Some very fine flowers were shown. Special mention was given to W. Willisen for a sport of Enchantress, much darker in color than the latter, measuring 3 3/4 inches, with good stem and calyx and very fragrant. Also to F. Boulon & Son, Sea Cliff, N. Y., for a sport of Mrs. Lawson. Many others were represented in the exhibition, including F. Mense, with his beautiful white seedling, *Dosoris*. S. J. TREPESS, Secretary.

THE MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—At the meeting of this society March 3, Frank Brunton was elected to membership. The secretary reported that eight essays had been sent in by the assistant gardeners in the prize contest. The names of the winners will be announced at our next meeting March 17, when the prize papers will be read and discussed. The subject of the essays to be sent in before April 7 is "Fruit Culture in General Under Glass." These essays will also be written by the assistant gardeners and prizes will be given for the best two. President Hale exhibited Mrs. Pierpont Morgan roses, which received 85 points. The discussion of the evening was "The Value of the Gardeners' Union." The judges were: W. W. Kennedy, H. Griffiths and William Ritchie. B.

THE TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The February meeting of this society being the quarterly social meeting, little business was transacted. The dates for the chrysanthemum show were decided upon; they are October 31 and November 1 and 2. The prize of the evening, for the best vase of assorted roses, was awarded to John Featherstone, Greystone, Yonkers. L. A. Martin, of Irvington, gave him a hard run. The latter's roses, however, were slightly lacking in stem. Mr. Featherstone also exhibited some fine plants of cyclamen and *Cineraria Feltham Beauty*. This is the result of a cross between *C. cruenta* and *C. stellata*, being a considerable improvement over the latter variety. In color, the varieties of this cross run mostly to pink. Secretary E. W. Neubrand was presented by his fellow members with a gold locket, suitably engraved, as a token of respect and appreciation of his valuable services in the interests of the society. Light refreshments were served and, with the songs, recitations, etc., a very pleasant evening was spent. WM. SCOTT.

LENOX (MASS.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held March 4, 1905, President R. A. Schmid in the chair. Mr. Schmid read a very instructive paper on carnations, on which there arose a lengthy discussion. It was carnation night, and a very good display of flowers was on hand. F. R. Pierson Company, of Tarrytown, N. Y., exhibited some of their new varieties. They were awarded first class certificates for *Victory*, *White Lawson* and *Variegated Lawson*, and a vote of thanks for *Daheim*, which variety had already received a first-class certificate from this society. The principal exhibitors in the schedule classes were A. J. Loveless, J. Dallas and Elm Court Farm. E. J. Norman was awarded a diploma for a very well-flowered piece of *Cypripedium venustum* spectabile. G. F.

PHILADELPHIA (PA.) FLORISTS' CLUB.—A large crowd turned out on Tuesday last to attend the rose meeting of the club, but, unfortunately, were disappointed at not having any exhibits to look at. All the growers of new roses who had been invited to be present replied that their plants were off crop, or all cut down for stock. The only exhibit staged was a seedling rose from Myers & Samtner (American Beauty X Safrano). It is a nice flower of the Beauty type, double, but rather flat, of light shade, even

lighter than *Queen of Edgely*. P. J. Lynch, of Dingee & Conard Company, in his paper on the newer roses, gave a very good review and description of varieties, mostly from an outdoor cultural view, but the paper was also full of information for florists.

It is proposed at the April meeting to have a discussion on coal—Anthracite vs. Soft Coal. For the past two Winters many of our growers have been using soft coal, and some of these will be present with figures to prove the correctness of their preference. DAVID RUST.

MASSACHUSETTS HORTICULTURAL SOCIETY.

—There was a good-sized audience in the lecture hall on Saturday to listen to A. Herrington, of Madison, N. J., whose subject was "Some Aspects of Hardy Flower Culture." (Mr. Herrington's paper will appear in a future issue.)

In the exhibition hall Peter Murray, of Fairhaven, Mass., exhibited some forty plants in twenty-five varieties of dendrobiums, which was as fine a collection as may be seen. He was awarded the society's silver-gilt medal for the collection and certificates of merit for the varieties, *Venus*, *Murrhinicum* and *Almsworthii* roseum, and honorable mention for the varieties *Euryalus* and *Nobile Domanil*. The collection contained besides such varieties as *virginialis*, *Rolfiae*, *Dominianum*, *Ballianum*, *Victoria Regina*, *Burfurdensis*, *Cassiope*, *Cooksonii*, *Sibyl*, *albiflore*, *Sanderæ* and *splendidissimum*. W. N. Craig, for the F. L. Ames Estate, North Easton, exhibited some very fine plants of *Phalaenopsis Schilleriana* and the variety *Curnowiana*, P. *Stuartiana*, *Odontoglossum Wilckeianum* albens, with a very fine spike of bloom; *Cattleya Trianae* alba and *Miltonia Bleuana virginialis*. He was awarded a cultural certificate for the collection and a first-class certificate for the *Miltonia*.

The Garden Committee of the society visited the greenhouses of Geo. F. Fahyan, Brookline, where James Stuart is gardener. Mr. Stuart is known as one of the best growers of cinerarias, cyclamens and such plants in this locality, and the committee found his stock equal, if not superior, to that seen in former years. The greenhouses were neatness throughout, and showed that exceptional care was given all the different plants grown. J. W. D.

THE PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

—The March meeting, held last week, was unusually well attended considering the inclement weather, between forty and fifty members being present. There was a fine exhibit of roses, etc. Two new members were elected and five proposed. It was decided to prohibit smoking in the meeting room during the session. Just think of it! The home of the "toby" and a poor fellow who works hard all day and then goes to meeting to have a good talk and smoke, not allowed to do any more fumigating among the posies! A new feature was also introduced—the question box. It was well used the first time.

The exhibit of roses pleased every one; magnificent blooms were shown by all. Breitmeier's Sons, Detroit, Mich., sent a fine bunch of *La Detroit*, the finest of that variety ever seen here; they showed the value of this new rose. A fine lot of *antirrhinum* was also exhibited by the same firm. Peter Reinberg, Chicago, Ill., had some elegant *Bridesmaid* and *Mme. Abel Chatenay* well grown and fine straight stems. The Washington Floral Company, of Washington, Pa., a comparatively new concern, showed through Mr. Salmon some well-grown *Bride*, *Bridesmaid*, *Ivory* and *Golden Gate*. L. I. Neff had some fine *Bridesmaid* from his new place in Cheswick, Pa. Blind Bros. staged *Bride*, *Bridesmaid* and *Killarney*, and J. W. Wyland, *Bride*, *Bridesmaid* and *Mme. Abel Chatenay*. The Bakerstown Rose and Carnation Company had a large exhibit of *Bride*, *Bridesmaid*, *Perle des Jardins*, *Mme. Chatenay* and *Mme. Cuslin*. G. & J. W. Ludwig showed *Bride*, *Bridesmaid* and the *Canadian Queen*; the latter is in good demand, being a fine keeper. David Fraser, gardener at Frick's conservatories, and Mr. Jenkinson, at Peacock's place, both showed some varieties of roses grown right in the city; they were fine blooms. John Jones, foreman of the Schenley Park conservatories, exhibited a nice lot of reasonable blooms, such as *cinerarias*, *cyclamen*, *Primula Forbesii*, *camellias*, *tulips*, *narcissus*, *hyacinths*, etc. J. F. Zimmerman, of Dixmont, Pa., had *The Marquis carnations*. Some well-grown plants of *Primula obconica* were shown by Messrs. Fraser and Jenkinson, also *Cineraria stellata* and the blue flowering *coleus*. Mr. Price, gardener at Laughlin's conservatories, exhibited fine cut blooms of *amaryllis* and plants of *primulas*. E. C. REINEMAN.

THE NEW JERSEY FLORICULTURAL SOCIETY.

—Fruits under glass engaged the attention of the New Jersey Floricultural Society, with William Turner, ex-president of the Monmouth Horticultural Society and superintendent of the estate of M. C. Borden at Oceanic, N. J., as essayist at the meeting on March 3 at Orange, N. J. Mr. Turner discoursed under the following heads: Grapes, peaches and nectarines, pineapples, border cultivation inside and out, giving as his preference the former, particularly in hard soils, and pot cultivation. He held that fruit raised under glass was so superior in color, form and flavor that when fully comprehended there would be more of it grown; and that while the pineapple was stringy and hard as ordinarily purchased in the market, from the glass house "it could be eaten with the spoon," that it was far more easily cultivated in America than in England, where it has been so long esteemed grown

under glass, owing to better climatic conditions here and far superior to those imported from the West Indies.

The discussion which followed was general, the majority of the members and visitors taking part. Among the latter were William Duckham and C. H. Totty, of Madison. Peter Duff acknowledged the debt which he owed to Mr. Turner for advice when he was about to launch out in this department of horticulture, particularly as to varieties, and heartily endorsed Mr. Turner's recommendations as to treatment and cultivation. It was stated that pot cultivation could frequently be employed where it was necessary to observe strict economy of space; nor was it necessary to change to a larger pot at the time of shifting. Altogether those present were satisfied with the profitable evening spent, and a hearty vote of thanks was accorded the speaker.

The Vilmorin letter from Professor Sargent was read and laid upon the table. Thomas Jones and James Lang were placed in nomination; Alex. Smith and Otto Manetz were elected to membership. Upon motion of Walter Gray a special dahlia show was decided upon and the matter given to the executive committee with power.

The floral exhibit consisted of a display of high-grade roses and carnations from Peter Duff, William Reid and M. Hornacker and a fine hybrid *cattleya* and a specimen *dendrobium nobile*, with 124 flowers, grown in a five-inch basket, from Edwin Thomas, gardener to Mr. Henry Graves; *Cattleyas Harrisonæ* and *Trianae* from Arthur Bodwell, gardener to Mr. William Barr, of Llewellyn Park. The judges were: Jos. A. Manda, Arthur T. Caparn and H. Hilbig. J. B. D.

THE KENTUCKY SOCIETY OF FLORISTS.

Weather conditions were most unfavorable for a representative gathering of the members of the society Tuesday evening, March 7. But the carnations and roses on exhibition proved a magnet which drew members to attend that had not been present for months. Next to attending a meeting of the American Carnation Society this show was all that could be desired. The flowers were fine, the varieties numerous and the new sorts many and excellent. Outside exhibitors were most liberal in their displays and deserve much credit for our successful meeting. Among these were the following firms: J. D. Thompson Carnation Company, Joliet, Ill., with Mrs. M. A. Patten, Nelson Fisher, Enchantress and *The Belle*, all well done and in magnificent shape. But the cream of their exhibit was *Robert Craig*, and with this variety every other red was compared. R. Witterstaetter, Cincinnati, O., had *Afterglow*, a most beautiful, large and very double pink carnation, and *The Aristocrat*, a fine pink appropriately named. Chicago Carnation Company, Joliet, Ill., with Dorothy Whitney, *Enchantress*, *Prosperity*, *Harlowarden*, Mrs. T. W. Lawson, *White Lawson* and a most excellent lot of that grand red, *The Cardinal*, as well as the beautiful white, *Lady Bountiful*. H. Weber & Sons, Oakland, Md., exhibited *My Maryland*, a very full and fine white. F. R. Pierson Company, Tarrytown-on-Hudson, N. Y., had *Victory*, a fine red; *Variegated Lawson*, *White Lawson* and *Daheim*, a crimson. John N. May, Summit, N. J., sent *The Bride*. This variety, which last year arrived in such good condition, and created such a good impression, did not reach us in very good shape this time. Baur & Smith, Indianapolis, Ind., had *Indianapolis*, a pink, and *Flambeau*, red, that look like bread winners. The Indianapolis Flower and Plant Company and John Hartje, Indianapolis, Ind., sent *Candace*, a beautiful pink. W. J. Palmer & Son, Lancaster, N. Y., the Red Lawson, a worthy member of the Lawson family. Anders Rasmussen, New Albany, Ind., some fine Mrs. Lawson, *Enchantress* and *Hoosier Maid*, the latter a white, which with him is most profitable. Nanz & Neuner, Louisville, Ky., staged *Perle des Jardins* and *Ivory* roses of most excellent quality, carnations *Enchantress* and *Morning Glory*, daisies, *forget-me-not*, *mignonette*, all showing the result of good culture. Chas. W. Reimers, Louisville, had Mrs. T. W. Lawson, *White Lawson*, *Enchantress*, *Flamingo*, *The Queen*, *Prosperity*, *Daheim* carnations, of a quality that would travel in any company; *forget-me-not* and spikes of *Allen's Defiance* *mignonette*, beautiful to behold. Jacob Schulz, Louisville, staged a vase of assorted seedlings, some of decided merit. Leo Zoeller, Louisville, had *Enchantress*, Mrs. Frances Joost, Mrs. E. A. Nelson carnations, that would hold their own anywhere. The exhibition was most conveniently arranged in the showhouse of Nanz & Neuner.

Independence in Trade Journals.

The trade journal that pursues an independent policy, permitting no dictation from those who use its advertising columns, and considering the reader's interests solely, is immeasurably superior to the other kinds as an advertising medium. Advertisers use a journal because of its standing with its readers. Therefore the journal that places its standing with its readers ahead of every other consideration is the journal that will give advertisers the best service.

It will be found in almost every instance that when a medium is so anxious to secure advertising as to make any concession to advertisers, its value is low. In fact, the probability is that it has no value whatever, and the advertisers are justified in refusing to consider it.

Independent journalism has a value of its own—it appeals to readers, and, therefore, it ought to appeal to discerning advertisers.—Profitable Advertising.

Review of the Market

NEW YORK.—The commencement of Lent finds business very dull indeed. Stock of all kinds has become more plentiful and it does not seem to matter at all what prices are asked, there is not enough demand to clean up the market. Violets are probably suffering more than any other flowers, and many that have been kept over night, are freely offered at \$1 per 1000, while good, fresh stock is obtainable at 20c. per hundred. Carnations are not much better off; while roses of all kinds have dropped to almost half the price they were bringing a week ago. Bulbous flowers of most kinds are down to 50c. per 100; and lilies can be had in quantity at \$3 and \$4 per 100. Lily of the valley and sweet peas are almost a glut, and fixed prices are out of the question.

Between the unfavorable weather we are having, and the strikes on the subway and elevated lines, business has gone all to pieces; but it is to be hoped that a speedy change for the better will follow.

BOSTON.—As was expected, there has been quite a slump the past few days in all kinds of stock, and appearances are that these conditions are likely to prevail for some time. All kinds of flowers are becoming very plentiful, with the exception of long stemmed American Beauty, which have been scarce, and there is little betterment so far, although there is a large surplus of cuttings and ordinary flowers. A few Meteor are being received. Bride and Bridesmaid are plentiful, some exceptionally fine blooms being seen, although the specials have little or no call.

Carnations have dropped in price, and it has been hard to move some varieties. White have sold fairly well, as have a few fancy sorts, like Enchantress and Prosperity.

Violets were never more plentiful than they are at present. Lilies are seen in large quantity, but do not sell very readily. Bulbous stock of all kinds is nearly at a standstill. Double daffodils sell best. Paper White narcissus and Roman hyacinths have little demand. Sweet peas are now plentiful, of excellent quality. Lily of the valley has not changed. Adiantum is scarce. J. W. D.

CHICAGO.—The market the past week has been erratic and prices have dropped considerably since last report. Stock of all kinds has increased in volume. Flowers have not been so low priced in this market for some time; nearly every wholesale house has felt the depression. The Mardi Gras festival at New Orleans this year did not occasion such large shipments as in former years. Shipping trade in general is not as good as usual at this period, and local trade has slackened up considerably. No glut, however, has taken place as yet.

American Beauty are not coming in very freely, and a market is readily found for all available good stock. For short and inferior grades, the price is what the buyer is willing to pay, these flowers being sold in most cases, to the Greek near the close of the day's business. Bride and Bridesmaid are being received in large quantities; the better grades are in demand at from \$8 to \$15. Liberty is in short supply at from \$4 to \$15 per 100, according to grade.

Carnations are being received in large supplies, and the prices have declined considerably; inferior stock is hard to move at any price.

The street man is now active, and from the signs displayed on the stalls must be buying stock at exceptionally low figures.

Violets are very plentiful; one wholesaler states that probably 100,000 violets were sold last Saturday. Prices on these range from 35c. to \$1.

Lilies are more abundant, ranging from \$10 to \$12. The supply of callas has shortened up, although they are yet in quantity, at \$8 to \$12, according to quality. Roman hyacinths are nearly out of the market. R. J.

CINCINNATI, O.—Carnations last week came near being a glut. What the coming week or weeks will bring forth is hard to figure on. Plenty of all kinds of stock is coming to market, and the demand is slow. It is not worth while to quote prices, as twelve hours' time might change all calculations. Lilies are plentiful and sell fairly well. Of violets and bulbous stock, there is no end, and Lent nearly here. Funeral work continues fairly active, using up considerable stock. Long American Beauty still command a good price. E. G. G.

SYRACUSE, N. Y.—There has been a marked improvement in trade conditions during February, and with the advent of longer and brighter days, stock is improving in quality. There is a large amount of bulbous stock in all the stores, which meets with a ready sale. Our florists report plenty to do in decorative and funeral work. Single violets are about gone, while the doubles do not meet with as ready a sale as formerly. Prices on all lines of stock remain as previously quoted. J. B. B.

ST. LOUIS.—Since last report, the wholesale market has experienced a considerable change. The weather has been fine, clear and bright, and cut stock is in great abundance. Prices have taken a decided drop in all grades. Lent has stopped nearly all social work. The street corner merchants are in their glory, selling violets, which are coming in by the tens of thousands. The downtown florists have made war on the street men by having the police run them in.

Carnations are of extra fine quality; the price on fancy stock is away down; \$3 per 100 buys extra select Mrs. Lawson, Governor Wolcott, Enchantress and Prosperity. Other varieties go at from \$1 to \$2 per 100. Common grades are left over and find no sale. Extra select American Beauty are down to \$4 per dozen, with more shorts at \$5 per 100 than can be sold. Bride and Ivory are in demand, and these sell out clean; but Meteor, Perle des Jardins and Liberty have little call, at prices ranging from \$3 to \$8 per 100.

Violets are a glut, and have been for the past two weeks. Although many of them are cleaned up at low prices—all the way from 15c. to 20c. per 100, in thousand lots—the trade is unable to handle all the stock that comes in. Callas are in great abundance at \$1 per dozen; Harrisii are not so plentiful. Other bulbous stock is still a drug on the market, and almost any price will buy it. Smilax is being cut pretty close as the demand has been rather heavy; in fact, all greens are selling well. ST. PATRICK.

INDIANAPOLIS.—The beginning of March has brought with it a very satisfactory business. Wedding decorations have been numerous of late, all of the retailers receiving a share of them. Funeral work remains heavy, and it is owing chiefly to this that a large amount of stock is kept from going to waste. With seasonable weather, stock is abundant. The extremely warm, bright days during the past week made the production tremendous, so that much goes to waste; this is especially true of bulbous stock which is moving very slowly.

Carnations are cheaper than at last report. Fancy grades may be had at \$3 per 100; medium grades, such as Mrs. Lawson, at \$2.50, and common ones at \$1.50 to \$2 per 100; 75c. per dozen is the customary retail price for them.

The supply of roses equals the demand and few are being shipped in. Select Bridesmaid, Bride, Golden Gate and Mme. Abel Chatenay bring \$7 to \$8 per 100; the best Liberty \$10 to \$12. Select 36-inch American Beauty wholesale at \$1.50; 24-inch at \$2.50, and 12-inch at \$1 a dozen. Marie Louise Violets wholesale at 20c. to 35c. per 100; extra fine single bring 75c.

The supply of plants is inexhaustible, but the demand for them hardly warrants the forcing at this time. Tomlinson Hall Market reports very encouraging business, both in the wholesale and retail departments. Nearly all the growers attend with heavy supplies. I. B.

WASHINGTON, D. C.—Business has been quite brisk this week, particularly so with the downtown stores. While there has been going on a great deal of entertaining of visitors to the inauguration, there has also been a good transient trade. The center market, which is our principal market, was well supplied with good stock which was readily disposed of. American Beauty brought from \$12 to \$18; Tom Field, \$7 to \$10; Liberty, which is always in demand, \$5 to \$8; Meteor, Souv. du President Carnot, Kaiserin Augusta Victoria and Bridesmaid were in demand at \$3 to \$5 per dozen, while Ivory, Golden Gate, Madame Abel Chatenay and Bride brought from \$2 to \$3.50 per dozen. There has been a heavy call for lilac at \$3 to \$5 per dozen. Violets realized \$1.50 to \$3 per 100. Carnations have been quite plentiful; such sorts as Enchantress and Flamingo brought \$3, the older varieties \$1.50 to \$2 per dozen.

Sweet peas are in demand at 50c. to \$1 per bunch. Gardenias have been called for at \$1 to \$1.50 each. Lily of the valley brings \$2 to \$3. Roman hyacinths, 50c. to 75c. per dozen. There has been a demand for red and yellow tulips at 50c. to 75c. per dozen. The supply of daffodils has not been equal to the demand, at 50c. to 75c. per dozen. Plants in pots have sold well; azaleas at from \$2.50 to \$5; cinerarias, 75c. to \$1.50; Chinese primulas, 50c. to \$1; lilacs in 10-inch pots, \$4 to \$6 each; tulips in 6-inch pans, 50c. to 75c. each. M. C.

PITTSBURG.—The cut flower trade the past few weeks has been fair. In the seed and plant trade the unfavorable weather is holding things back; a few nice days will soon alter this. In cut flowers, good stock is being handled and prices are satisfactory. E. C. R.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

LIMA, O.—N. R. Swan, of Findlay, O., contemplates opening a branch store in this town.

FORT WAYNE, IND.—W. C. Puckett, R. F. D. No. 8, is starting in the greenhouse and nursery business here.

WEST CHESTER, PA.—John Herbeck, who disposed of his greenhouses here, has gone to Boston, where he will locate.

PENDLETON, ORE.—S. H. Forshaw, florist, will open a seed store here, handling also cut flowers and nursery stock.

SOUTH OMAHA, NEB.—A. Delaney is removing his store to the new Bergquist Building, near Twenty-fourth and L streets.

HACKENSACK, N. J.—Mrs. T. Gulliksen, now located opposite the Public Library, has rented the store on the downtown side.

SLATINGTON, PA.—John F. Horn & Bro., of Allentown, Pa. recently opened a branch store here, with Charles W. Hummel in charge.

SOUTH BEND, IND.—August Beyer, who has been located at 122 North Michigan street, has moved to No. 129. The new quarters have been handsomely decorated and fitted up with every convenience.

FIRMS WHO ARE BUILDING.

WEST UNION, MD.—William Coss has about completed a new greenhouse.

SOUTH WILSON, N. Y.—Frank Culver's new greenhouse is nearing completion.

WEST MILAN, N. Y.—Allen Traver will build an additional violet house, making three in all.

PLAINFIELD, N. J.—The Belleview Nursery will build a new greenhouse for carnation culture.

BRAMPTON, ONT.—William Fendley will build four greenhouses, each 200x21 feet, opening into one another. The King Construction Company, of Toronto, has the contract.

BUSINESS DIFFICULTIES.

DORCHESTER, MASS.—J. I. Gurney is in bankruptcy; liabilities, \$1,768; no assets.

Worth the Money.

I beg to acknowledge safe arrival of THE GARDENER'S ASSISTANT, and am more than pleased with the volumes. They certainly are worth the money. GEORGE MASON. N. J.

The Old Story.

Responses from advertisements of February 4 and 11 were very satisfactory. Enclosed find copy to run until further notice. D. WM. BRAINARD. Connecticut.

BOWLING.

NEW YORK VS. NORTH HUDSON.—On Saturday evening, March 4, teams of the New York Florists' and the North Hudson Florists' Bowling Clubs met in a friendly match on the alleys of the latter in Hoboken, N. J., and played three match games which resulted in a tie, each of the teams totalling 2,530 pins in the three games. A return match will be played on the New York alleys Monday evening, March 20. The individual scores follow:

Table with columns for New York and North Hudson players and scores. Includes names like J. Kessler, J. A. Manda, W. H. Siebrecht, F. C. Holt, J. Fenrich, T. J. Lang, P. Fischer, H. C. Steinhoff, C. Dietz, H. Mende, M. Hansen, W. Otte.

Table with columns for North Hudson players and scores. Includes names like P. Fischer, H. C. Steinhoff, C. Dietz, H. Mende, M. Hansen, W. Otte.

Table with columns for New York players and scores. Includes names like J. A. Shaw, Schreiner, W. Ford, A. J. Guttman, J. Fenrich.

A Cure Prescribed.

THE MODERN SAIRY GAMP: Lack-a-mussy, sir, ever since I first put that chile, young Haughty Kultoor, in its crib, with its feet where its head should 'a been, it has tho't it was at top o' things, when it shorely is at the bottom, where it frantically squirms in a futile attempt to ape its elders higher up.

DR. DELA-VAN-GRANT: That's all right, nurse; give the infant, while it is nursing, three drops weekly from our Large Circulation that Circulates bottle; then when the "daffy" season is over, increase the dose to six drops, keeping this up till it get its wisdom teeth. It will then probably know and see things as they are; show its own originality and prove itself something more than a "base imitator."

SAN FRANCISCO, CAL.—In the death of Mrs. Leland-Stanford, California loses one of its most liberal flower buyers, the blossoms being used by her principally to cheer the rooms of the sick and poor.

Miss Hilda M. Fecheimer, 1150 Sutter street, who was married recently, has abandoned her flower store. ALVIN.

JOLIET, ILL.—The Chicago Carnation Company, on March 3, shipped seventeen boxes of plants to Great Britain. The shipments included Pincee and other standard varieties handled by the firm.

HOLYOKE, MASS.—M. H. Walsh, Wood's Hole, Mass., recently delivered a lecture on "The Care and Cultivation of the Hardy Rose" before the Holyoke Horticultural Society.

ELIZABETH, N. J.—Mr. Saunders, who met with an accident by the bursting of a steam pipe at the Elizabeth Nursery Company's plant, is improving, and he expects to be able to resume his duties in a few days.

Advertisement for The Hummingbird Kind Tobacco Powder. Includes a large illustration of a hummingbird and the text: 'All That Use It Say "There Is Only One"'. Also mentions 'FREE trial five-pound bag' and 'THE H. A. STOOHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York'.

The Retail Trade

Decorations for Inaugural Ball.

Henry Small & Sons, Washington, D. C., eclipsed all their former efforts at decorating the Pension Office Building for the Inaugural Ball on March 4. While the Pension Office Building is not famed for its architectural beauty, yet, when Smalls got through with it on the early morn of the 4th, it had been transformed into a veritable paradise. In the center of the ground floor was a large fountain, around which were placed vases filled with dracenas, genistas and Astilbe japonica. The rock work which forms the walls of the fountain were studded with plants of Cibotium Schiedel, with a base of callas, the effect of which was simply superb. Hanging between the archways of the first, second and third floors were baskets filled with rhododendrons, azaleas and cinerarias, with Southern smilax for vines. On the two upper balconies were rows of evergreens, about 15 feet high, placed at suitable distances, which enhanced the appearance very much. At the sides of the orchestra were placed two immense groups of palms about 40 feet high, composed of Oreodoxa regia from Porto Rico, which made a very imposing group.

The President's reception room called for some extra fine work. On the walls were Asparagus plumosus and on one side of the room was an immense shield of orchids; on the mantels were groups of Adiantum Farleyense and orchids. This room was so rich that it won the admiration of both the President and Mrs. Roosevelt.

The reviewing stand where the Presidential party sat during the ball was draped in blue muslin and Southern smilax, and bunches of American Beauty, directly in front of the President an immense bunch of long-stemmed American Beauty overhung the balcony rails, creating a fine effect from the floor.

The banquet room was decorated with Southern smilax and wreaths of roses. The pieces on the table were made of Bridesmaid roses and Farleyense fern. The electrical display was a very fine feature, and many floral designs were worked out. The lamps were partly shaded with smilax, which prevented that glaring appearance that so often spoils the effect. This part of the decorations also came partly under the Smalls' supervision, who were heartily congratulated for their magnificent work. M. C.

WASHINGTON, D. C.—The President and Mrs. Roosevelt entertained a large party at dinner on March 4. The table was handsomely decorated with rhododendrons and Liliun Harrisii, the different rooms being decorated with palms, ferns, rhododendrons, cinerarias, Azalea mollis and Harrisii lilies. This was the most elaborate plant decoration that has been done in the White House since its present occupants have been located there.

George Cook decorated for a dinner given by Senator Depew. Liberty and Harrisii lilies were used on the table with groups in the parlors of lilies, Astilbe japonica and daffodils. Henry Pfister supplied 100 corsage bouquets of sweet peas and 100 boutonnières of violets for a dinner at the British Embassy. Geo. Shaffer had several dinner decorations this week. At one of them white lilac, Liberty and American Beauty roses were used quite lavishly. Mayberry & Hoover decorated Woodward & Lothrop's department store with palms and Liliun Harrisii for their Spring opening.

SYRACUSE, N. Y.—Mr. Robertson, of P. R. Quinlan & Co., had this week a novel arrangement for a wooden wedding, consisting of a tub filled with La Reine tulips with a wide pink ribbon tied in a handsome bow around the center of the tub.

At the "At Home" given by Miss Jessie Kennedy, of West Genesee street, the firm of Wheadon & Hencle had what the local papers described as the swellest decoration of this season. Palms and ferns were used lavishly. A whiplash curtain of smilax, studded with pink carnations, screened the musicians. Leading to the dining room was a wicket gate of smilax and The Marquis carnation, where a little lady, dressed in colors to match, admitted the guests to the dining room. The table decorations here were of pink tulips, those of the room of Enchantress carnations. Another room had Bridesmaid roses and smilax, and still another was beautified by an immense basket of lily of the valley. As she received, the hostess carried a bouquet of Bridesmaid roses tied with pink ribbon.

The gardeners of Lake Geneva, Ill., have decided to form themselves into an association. The object of the association will be to promote a better and more general acquaintance with the latest and up-to-date methods of the art by mutual conference and discussion, and to encourage a greater enthusiasm for giving Lake Geneva the finest country seats to be found in the western country. It seems now quite certain that the association will start out with a membership of between 40 and 50 members. One of the undertakings of the association when organized will be to have an annual chrysanthemum show in Lake Geneva.

Shirley Poppies.

A colony of these poppies in flower is certainly a sight worth seeing; in fact, it is difficult to convey on paper the effect produced by such a gorgeous display of color. Not only are the colors diverse and charming, but the texture of the flowers, or, rather, the petals, themselves is highly refined, resembling finely crimped satin.

Some specially selected strains of this poppy are now on the market, so that when placing your order for hardy annuals—and make a point to have it in early—by no means fail to insert therein at least one of these brands. When you get these embryos of floral beauty, be good to them and have in readiness a sunny spot previously well tilled and filled with plenty of good, rich, well-decomposed barnyard manure. There is nothing like it. Such kindness will afterward be found to more than repay all trouble.

Sow the seed early. This is of primary importance to success with hardy annuals. Now, in the case of small seeds, and that of the poppy is one, there is always a great tendency to sow too thickly and irregularly, wasting thus a lot of seed. A simple device will obviate this. Mix the seed with about four times its own bulk of dry sand and then scatter this mixture. Thin out the plants where growing too thickly, and observe that during a spell of dry weather they suffer not from drought. Give a good watering when needed, and let the word good be emphasized. Mere sprinkling is of no use whatever; it will prove more detrimental than beneficial. Adherence to these few cultural directions will bring good results.

Glen Cove, L. I.

JOHN F. JOHNSTON.



SHIRLEY POPPIES.

Photo. by John F. Johnston.

Japanese Economic Plants.

Among the many plants that come to us from Japan are several that are of great economic value. Included in these are the gun bean, one of the Japanese Soy beans, which is principally used to make the famous Soyn-sauce. Zingiber officinale, the rhizomes of which are generally preserved, reddened with plum vinegar and are made up as relishes. Panax ginseng is a drug very popular with the Orientals. Boehmeria nivea is a nettle which furnishes the famous China grass or ramie fiber, also used in the paper industry. Pueraria Thunbergii, the kudzu vine, is used as a fodder plant, and its fibre is also valuable. Juncus effusus is a rush much used in Japan to make the matting. Lespedeza cyrtobotryta is valuable as a fodder plant. Broussonetia papyrifera is considered the most important paper plant, its bark being used in the manufacture of bark paper. Edgeworthia papyrifera is the paper bast plant of Japan and China. The mucilaginous roots of Hibiscus Manihot are used to make cement in paper manufacture. It is a pretty plant, bearing large, light yellow blossoms. Cinnamomum Camphora is a giant and beautiful tree, which, as is well known, furnishes the camphor of commerce.

For the foregoing interesting particulars we are indebted to the wholesale catalogue of L. Boehmer & Co., Yokohama.

THE LENOX (MASS.) HORTICULTURAL SOCIETY has issued schedules of premiums for the shows to be held June 22 and August 24 next, respectively; also the preliminary prize list for the 1905 chrysanthemum exhibition. R. A. Schmid is secretary.

Can Sporting in Plants be Induced?

The sporting of plants, as we term the vegetative variations which occur during the life of the individual, is only a special form of variation. Variation we know is the natural tendency of plants and animals. The direction and extent of such variation is frequently predetermined by external circumstances—environment—or by inherent tendencies of the individual or species.

In fact, fixity of type, either in nature or under cultivation, is a very difficult thing to attain, as all seedsmen and plantmen well know. The fixity which appears to exist in nature and which is responsible for the existence of so-called species, is the result of certain limiting forces working in conjunction through countless generations. Break up this dead-lock and the species almost invariably throws off varieties—a convenient term for indicating a departure from the parent type.

From what has been said it will be evident that I consider a sport simply a marked variety or variation, which may appear as a distinct individual, or as a part of an individual during its period of existence, in which case, for purposes of distinction, we are pleased to call the latter a bud sport or variety.

Sporting, then, may be encouraged by extreme conditions. Either extreme feeding or extreme poverty may induce plants to sport. Severe changes in climate or soil conditions may result in decided changes in stature, habits of growth and fruitfulness, which are as marked attributes of a sport as are changes in the color of foliage or fruit.

Burpee dwarf lima bean is a good example of a sport where the habit of the plant was markedly changed. The white and fancy sports of the Lawson carnation are good illustrations of changes in color.

Just here I wish to note that in a bed of Mrs. Lawson and upon a plant with otherwise normal flowers, one shoot produced a blossom, one-half of which was pure white, while the other half was of the normal pink of the Lawson. These sports in the Lawson are exceedingly interesting, for they clearly indicate that the Lawson is composed of two parts, pink and white, in which the pink is the predominant. Under favorable conditions, however, the white asserts itself and we have the sports above spoken of. This frequent breaking out of a recessive character is all the more interesting in the case of the Lawson carnation on account of the fact that neither of its immediate parents were white, the Lawson being the result of a cross of Daybreak, pink, with Van Leeuwen, cerise. The facilities now at hand do not allow me to analyze the composition of either Daybreak or Van Leeuwen, but I suspect from the behavior of Lawson sports that one of these parents, and perhaps both of them, have a strong white strain of blood in them.

From what has been said it is evident that cross-pollination is believed to be one of the most important means through which the sporting or variation of plants can be induced. The wonderful results obtained by Burbank in his work with fruits has been based almost entirely upon the practice of cross-pollination. In connection with this work there seem to be two pretty well established theories. They may be stated somewhat as follows: When working with species the more violent the cross that can be secured the more variable will be the hybrids in the second generation and the more likelihood there is of securing distinct forms of monstrosities. Second, that when working with plants which are themselves of crossbred or hybrid origin the peculiar attributes of the particular plants used for breeding purposes cannot be counted upon to appear in the mongrel offspring, except in so far as these characters form important dominant or recessive characters in the breeding of the parent plants.

The marvelous results achieved by some of our moderate plant breeders seem to lie in their wonderful skill as manipulators of plants. Crosses have been successfully made by these men, and fertile seeds obtained from plants which have been considered incompatible and so entirely distinct, that it was considered heresy to seriously consider the question of making such a cross. I am free to confess that with ninety-nine persons out of every hundred engaging in such work I believe the results would be "nil." The success of the one proves his superior skill and ability to discern the conditions essential for success.

The factors, then, which may be considered as contributing to the sporting of plants are: Extreme conditions in the environment, such as marked changes in latitude, altitude, soil conditions, as from alluvial to desert, increased food supply, the results of an excessive use of plant foods or of cultivation, and violent or continuous cross-breeding.—L. C. CORBETT before the American Institute, New York.

American Rose Society.

Additional Prizes.

Additional special prizes are offered for competition at the annual exhibition to be held in Boston, March 23 to 26, as follows:

Pelerson-Sefton Company, Jersey City, N. J., a \$50 silver cup for the best vase of fifty blooms of teas or hybrids, not less than three varieties.

Welch Bros., Boston, a \$25 silver cup for the best vase of roses in the show.

Peter Crowe, Utica, N. Y., a gold, silver and bronze medal for the best, second best and third best pair of vases containing twenty-five Bride and twenty-five Bridesmaid. WM. J. STEWART, Secretary.

THE WEEK'S WORK.

Timme's Timely Teachings.

It Is Time to Provide.

While there is a sufficiency of cut material, often amounting to an overflow on our markets at nearly all times of the year, not excepting the great holidays, there is one period, short though it is, when a dearth in cut flowers is keenly felt. And, strange, as it may seem, this period is one of all others when one would expect flowers of all kinds to be most abundant; yes, the very season of flowers—from the beginning of June until the latter part of July. This has been the case now for three or four years. Wholesalers at that time are kept regretfully busy refusing orders and sending out calls to their growers advising them to "bring in anything you can pick, no matter what; good money waiting."

It is not unlikely that the general replenishing and replanting of the leading cut flower stock, now also including carnations, all just taking place at that season, may, to some extent, be responsible for the scarcity in these lines at a time when June weddings, school commencements and numerous social affairs create quite a demand for cut flowers. The proper thing, then to do, would be to provide in time and, if necessary, create a supply to meet that demand. This should not be difficult to do, if an effort in that direction were made right now. Roses and carnations should not all at once be thrown out. Some of the least exhausted and most promising at that time might be allowed to remain in the houses a month or two longer. This could all be planned now better than later. Of the common flowering plants, annual and greenhouse varieties suitable for the purpose, quite a number would thus prove useful, furnishing a source of income usually not reckoned upon in our estimation of their value. This is a good time to make a start in this direction.

Cinerarias.

There are few plants more suitable for Easter than cinerarias. Those raised especially for that holiday trade should have had their last shift in December or January. From that time until now but little real growing should be encouraged. The best place for them up until now is one cool and light, a temperature very close to freezing, but never dropping down to it; in fact, a place hard to find in any establishment. Frost must never touch them. A cold frame outdoors in late Fall and in early Spring for those wanted after Easter offers a good place for cinerarias. From now on the Easter plants need a little more heat, unless they are very far advanced. They should have a light bench, plenty of room and stand on a thick and fresh layer of tobacco stems. Mild, but frequent fumigation and sprinkling with tobacco water now and then will also help to keep down the aphids.

When the flowers begin to show color, a dose or two of liquid manure will impart a deep luster to the darker shades. Fumigation should then be discontinued. Plants with exceptionally fine bloom should be set aside for seed bearing. Cinerarias can also be propagated from cuttings. March is the best time to start them. The short, sturdy shoots, found at the lower part of the main stem, are broken off and inserted in sand, like other soft cuttings, but must have the coolest end of the bed. They may be rooted in trays or seed pans. Potted off in time and placed into a frame outdoors as soon as safe they will then require the same treatment as the plants raised from

Tuberous Begonias.

In many parts of Europe it is reported the tuberous-rooted begonia has almost driven the zonal geranium from the field, or rather out of the garden. It is unlikely that these begonias will here ever gain a firm foothold as bedding plants, unless someone succeeds in working up a strain, or an entirely new race suitable for our peculiar climate. Last Summer, however, as also the year before, I noticed some exceptionally fine beds of tuberous begonias. They were greatly admired by every passerby and commented upon as something far ahead of the usual run of plants in the bedding line. These beds were partially protected from the hottest rays of the sun by high trees, some twenty feet or so away, affording a light, airy, shifting shade from about 10 a. m. to 3 o'clock in the afternoon. But then, not everyone has such an admirable spot to set aside for these begonias. Any attempt to flower them in places exposed to drying winds and scorching sun will end in failure; nor will they be a complete success if bedded out under trees directly, or on the north side of a building. And, again, large plants in full bloom, such as we offer to the public as pot plants in June, are entirely unfit for bedding out, and the sales of such plants for that purpose will result in the certain loss of the plants' bloom and beauty and the probable loss of a customer. Plants, intended for borders in the open, should be started in the latter part of April, and come out of three

or four-inch pots in June. These may, if all other conditions are favorable, prove a decided success.

Tuberous-rooted begonias are profitable to grow where they are mainly wanted for interior decoration, where a brisk trade in medium-sized, very showy and effective pot plants is carried on; and, indeed, few plants will give greater satisfaction as house plants, or for a conservatory, than these. For this trade it pays to have them early. The bulbs, or corms, started in the middle of March, will grow into salable, blooming plants by the first of June. Starting the bulbs at once in pots is not as good a plan as starting them in flats, three or four inches deep, and of any convenient size. A light, sandy, porous soil, or leaf-mold with one-fifth of it well decayed manure, is good for this culture. On the surface of these boxes a little moss may be spread after the bulbs are in. The bulbs are planted a few inches apart and just deep enough so the top is visible. After a good watering, they are given a place on a warm bench and but little water is afforded after this until top growth shows. When they have made three or four leaves, they are potted up into four-inch pots and, later on, into their selling sizes. From that time on they will need great quantities of water, an abundance of fresh air and a light shading on very hot days.

Chrysanthemums.

For general stock, chrysanthemums may be propagated at any time during Spring up until June, but for the production of high grade flowers and for exhibition plants and blooms, early propagation is to be relied upon. Good cuttings can only be had from old stock plants, that occupied a light bench and have been well taken care of. Stout, straight growths, coming direct from the ball of roots, furnish better cuttings than are to be found in the side shoots on the old stump. A temperature of 50 degrees is high enough for the cuttings to root in. They should not remain too long in the sand, but be potted off as soon as rooted. Ordinary good soil is all they want at present. The shifting into larger pots should not be delayed too long in the case of exhibition plants, and some of those, propagated very early, will need it soon. A vigorous and rapid growth should, as much as possible, be encouraged, so that fine plants may be had for benching in early June.

Cannas.

Potted cannas, showing a well-developed, clean foliage and a spike or two of bloom, are good selling plants in May and June, although such plants are not any better for the open border than dry roots just starting into life. Some of the clumps, wintered over, should now be divided, and the pieces plunged into earth, sand or moss on a warm bench; or, as some do, they could at once be planted into four-inch pots and these placed on a bench in a warm house. In either case they will soon form roots and top growth. A better plan, at least a more economical one, is to remove the clumps from their winter quarters to a warm and fairly light place; let them there start their tops, and then divide with a sharp knife into as many pieces as there are green crowns. These are then potted up, and if kept in a warm and moist atmosphere and given all the light possible will be fine, stately plants in the Spring, quite effective in greenhouse and conservatory and even good enough for indoor decorative purposes. Among the newer introductions are some cannas that seem especially fitted for pot culture; they are dwarf and very free and the flowers of good substance and lasting quality. These should be chosen for such work. Cannas, started early, need little in the way of transplanting, and will bloom earlier if allowed to become thoroughly potbound.

FRED W. TIMME.

Pittsburg.

The Week's News.

J. W. Ludwig, P. Demas, and L. Niggel attended the inauguration of President Roosevelt in Washington. H. B. Beatty, treasurer of the S. A. F. O. H., wife and family, were also there. W. C. Beekert and G. and J. W. Ludwig got the Allegheny City contract for florists' supplies, seeds, etc., for the year.

Fire in the Allegheny market house threatened to wipe out the florists, but it was checked in time, and the only loss to the boys were a few soaked paper boxes.

Ed. Thiel, who formerly had a florist store on Federal street, Allegheny, is now in the employ of G. & J. W. Ludwig.

The Dutchmen have come to town, and there is no use trying to escape from them, for they'll stay here till they get an order.

Fred Burki met with a painful accident last week by falling into a pit which was carelessly left uncovered by workmen. Some of his ribs were broken. E. C. REINEMAN.

Newport, R. I.

News Notes.

It still keeps very cold, consequently there is very little counter trade as yet with the seedsmen. There is anywhere from ten to thirty inches of frost in the ground, and everything now points to a late Spring.

Mr. Weaver, of the George A. Weaver Company, has returned from Hot Springs, Ark., where he had been sojourning for some weeks to benefit his health.

John Robert Clark, the seedsman of the George A. Weaver Company, has resigned his position and returned to Boston, Mass.

The New York, New Haven & Hartford Railroad Company has added a heated car to the Thursday afternoon freight train from Boston, for fruit and vegetables for the local dealers here. The continued cold weather made this a necessity.

The regular meeting of the month of our Horticultural Society should have taken place last week Wednesday, but owing to a special Scotch concert given by the Jessie A. MacLachlan Scottish Concert Company, it was voted put over to March 15.

Carl Jurgens has been shipping to Welch Brothers, at Boston, Mass., some very elegant bulbous stock in large quantities. Mr. Jurgens' lily of the valley has been especially fine this Winter.

Mr. Smith, of the T. W. Emerson Company, Boston, Mass., has been here recently and reports business in all horticultural lines as picking up with all his New England customers.

Henry E. Anthony, the seed grower, of Portsmouth, R. I., was also a visitor.

F. W.

Boston.

News Items.

The following prizes have just been announced by Mr. Montgomery for the rose show of the American Rose Society. The Pierson-Sefton Company offer a silver cup, value \$50, for the best fifty blooms of roses, teas or hybrid teas, not over three varieties. Welch Bros. offer a prize of \$25 for the best vase of rose blooms in the hall, in addition to any other prize it may win. These are two valuable prizes, and although offered at a rather late date it is to be hoped there will be keen competition for them.

The Massachusetts Horticultural Society have sent out a circular asking that intending exhibitors at the Spring exhibition and annual show of the American Rose Society file their entries at least one week prior to the opening of the exhibition. It is to be hoped this request will be complied with as far as possible, as it will greatly facilitate matters concerning the arrangements for space in the various halls.

The entertainment committee of the Gardeners and Florists' Club met on Monday evening for the purpose of making arrangements for the entertainment of the visiting members of the American Rose Society during their convention.

Violets were the popular flower at the Boston College ball on Monday night, and these flowers were more in demand in consequence. William Sim, one of the largest growers of violets here, disposed of something like 25,000, and Oscar Dorr, another large grower, about half as many. These are considered pretty good cuts for one day.

The J. C. Budlong & Sons Company, of Auburn, R. I., are shipping daily to this market large quantities of roses and carnations of exceptionally fine quality.

Cards are out for the wedding of Grace Elizabeth, daughter of W. W. Edgar, of Waverly, to James McHutchison, New York, on Wednesday, March 15.

John Walsh, of the Park Street Flower Market, is still confined to his home through sickness.

The many friends of William E. Glidden, the popular salesman for the J. A. Budlong & Sons Company, are sorry to hear of his illness with typhoid fever. Invitations had been out for the wedding of Mr. Glidden to Miss May Maud Coy on March 8, but now the ceremony has been postponed to April 12. J. W. DUNCAN.

As Usual.

Orders are coming in at a satisfactory rate. HENRY FEDDER, New York.

St. Louis.

News of the Week.

Ed. Buechel, manager of the Riesens Floral Company, has now been confined to his room fourteen weeks with a broken limb. He says four more weeks and he will be out again.

C. Young & Sons Company are very busy this early with Spring mail orders. They report plenty of shipping and local plant orders the past week.

Ostertag Bros. had two large wedding decorations last week, which used up considerable stock. Henry Ostertag was defeated last Saturday for the office in the House of Delegates.

W. H. Kruse reports lots of work in tree planting, with plenty of outdoor work booked ahead.

George Augermuller has left the employ of C. A. Kuehn. He says he will probably open a wholesale commission house in St. Louis.

J. Slater & Co. will open the store on St. Louis avenue recently vacated by Adolph Brix. The latter's lease has expired, and Mr. Slater, who owns the building, will continue the business. Mr. Brix will open up two blocks away.

George M. Kellogg, of Pleasant Hill, Mo., spent a day here last week.

Fred. Ammann, who visited Springfield, Ill., last week, met quite a number of the Chicago florists at the State Capitol.

Mrs. Ellison, of the Ellison Floral Company, reports quite a busy week for the windup of the social season. Their new location is very attractive.

C. C. Sanders is building a new residence at his place, on the Henley road. At the Delmar avenue establishment everybody is busy with early planting.

Miss Rosa Arata has opened a branch store on Washington avenue, near Broadway.

The florist bowlers met on Monday night at the Palace alleys. Only seven members showed up. Four games were rolled. The high men were: Kuehn, 651; Beneke, 617; Miller, 617; Beyer, 593; Meinhardt, 571; Gerlach, 549, and Ellis, 475. Next Monday they will meet again. ST. PATRICK.

Philadelphia.

The Week's News.

The market has been rather dull this week, but this condition is not expected to keep up. The last two or three years Lent has not been felt like it used to be; with bright weather, no doubt business will move much better.

W. Atlee Burpee & Co. have purchased 86 acres of land in New Jersey. This will be used for experimental and trial grounds, in addition to their already large farm at Doylestown. The business of this firm has increased very much; this season two additional buildings, acquired last Fall, are being used, these adjoining the concern's seed warehouse and offices.

Albert M. Herr came down from Lancaster to attend the club meeting; he had been absent many meetings.

The decorations for the second assembly ball last week, by Habermehl's Sons, were very elaborate. In the ballroom, in addition to foliage plants, white and yellow flowering plants were used; and in the foyer, where the guests were received, a bank of foliage plants intermixed with Bougainvillea Sanderiana in full bloom. The supper tables were very elaborately decorated with flowers, each table being distinct from its neighbor.

William Graham Company have the decorations for the Purim ball next week, at Mercantile Hall. DAVID RUST.

FREDERICK, MD.—Edward H. Sharp, who conducts a greenhouse plant in the eastern suburbs of Frederick, has filed, through his attorney, a suit against the Mayor and Aldermen of Frederick for \$5,000 damages for losses alleged to have been sustained by Mr. Sharp by the failure of the water supply at his greenhouse. This is the second time the suit has been brought by Mr. Sharp, his previous suit, tried at the present term of court, having been nonprossed because of the failure to establish proof of a contract with the city to furnish him with water for his greenhouse.

WASHINGTON, D. C.—Roy Wilcox, of Council Bluffs, Iowa, was in town during the inauguration and rode on the staff of the Citizens' Committee in the parade, with the rank of colonel. M. C.

CANNAS

Dormant Roots { Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italia, Aus- } \$15.00 per 1000; \$2.00 per 1...
Large Pieces, 2, { tria, Queen Charlotte, Paul Marquant, Flamingo, Shenandoah } Mixed All Colors
3 and More Eyes { (dark foliage), Fair Persian, Morning Star, N. Washington } \$10.00 per 1000; \$1.50 per 1...

CLUCAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK

Mention the Florists' Exchange when writing.

Wm. Duckham } strong 2 1/2-inch pot plants
Dr. Enguehard } \$4.00 per 100; \$30.00 per 1000.
HENRY EICHHOLZ, Waynesboro, Pa.
Mention the Florists' Exchange when writing.

Alternanthera, Aurea Nina, yellow,
Rosea Nina, red and
Tricolor, dark brown.
Coleus, Golden Bedder, Best Yellow, Versachef-
colored varieties for hanging-baskets, window
boxes and vases. 60 cts. per 100, \$5.00 per 1000.
Cash with order or satisfactory references.
Baur Floral Co., Erie, Penn.
Mention the Florists' Exchange when writing.

CHRYSANthemUMS
ROOTED CUTTINGS
Per 100 Per 1000
Wm. Duckham, \$3.00 Miss Alice Byron, \$2.00
Black Hawk, 1.50 Nellie Pockett, 2.00
Appleton, 1.50 Mrs. Coombs, 1.75
Cremo, 1.50 Mrs. H. Robinson, 1.75
Dazzler, 2.00 Mutual Friend, 1.50
Glory of Pacific, 1.50 October Sunshine, 1.50
Lady Fitzwygram, 1.50 Polly Rose, 1.75
Bonnafton, 1.50 Timothy Eaton, 1.75
Maud Dean, 1.75 White Bonnafton, 1.60

CARNATIONS
ROOTED CUTTINGS
100 1000
Prosperity, \$2.00 \$15.00
Lawson, 2.00 15.00
Masco, 1.50 15.00
Queen Louise, 1.50 15.00
Gov. Wolcott, 1.50 15.00
May Naylor, 1.50 15.00
Joost, 1.25 15.00
Eldorado, 1.25 15.00
Bradt, 2.00 20.00
Euchantress, 3.50 35.00
Scott, 1.25 15.00
Ornated Bride and Bridesmaid Roses,
\$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR
Southport, Conn.
Mention the Florists' Exchange when writing.

CHRYSANthemUMS
DR. ENGUEHARD
Rooted Cuttings, \$3.00 per 100.
CASH, PLEASE.

J. HAUCK, 86 So. Grove Street
East Orange, N. J.
Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON
JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS
CARNATIONS and Novelities
in DECORATIVE PLANTS
Market and 49th Sts., PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

CHRYSANthemUM
WM. DUCKHAM
Rooted Cuttings, \$4.00 per 100.
Stock Plants, \$15.00 per 100.
From 2 1/2 in. pots, \$6.00 per 100.

CARNATIONS
Rooted Cuttings, White Lawson and Mrs. M. A.
Patten, \$6.00 for 100.

GALAX, green or bronze, 75c. per 1000.
FLORISTS' WIRE, No. 22 or 24,
cut 9 or 12 inches, 90c. per box.

C. L. HOWE
DOVER, N. H.
Mention the Florists' Exchange when writing.

AZALEAS for EASTER

All the best imported sorts—well budded, 50c.,
75c. and \$1.00 each. Extremely large plant, \$1.25.
PANSIES—Bignot and Ossier's strain. Large
transplanted plants from cold frames, 60c. per
100 by mail, \$2.00 per 1000 by express.

Per 100
CINERARIAS, 4 in. \$ 7.00
CINERARIAS, 5 in. 10.00
ASPARAGUS SPRENGERI, 4 in. 5.00
P. OBCONICA, 4 in. 7.00
P. OBCONICA, 5 in. 10.00
LOBELIA, 2 1/2 in. 1.00

C. WHITTON, City Street, UTICA, N. Y.
Mention the Florists' Exchange when writing.

CHRYSANthemUM
BRIGHTHURST

The best pink for single stem pot plants. A
rival to Merza, having the same dwarf, robust
habit, but in color, a clear, soft rose pink and of
excellent substance. Equally valuable as a
Commercial or Exhibition flower. Extra
strong stock ready now.

This and our other introductions of the year
50c. each; \$5.00 per doz.; \$35.00 per 100.
Remember EIGN NOVELTIES and
Standard Varieties. Send for 1906 Catalogue.

NATHAN SMITH & SON, - Adrian, Mich.
Mention the Florists' Exchange when writing.

Rooted Cuttings Fine healthy
CARNATIONS Stock
Ready now. Orders booked for future delivery.
100 1000
White Lawson (5000 ready now) \$7.00 \$60.00
Lady Bonntifnl, 6.00 60.00
Mrs. M. A. Patten, 6.00 60.00
Nelson Fisher, 7.00 60.00
Dahelm, 6.00 60.00
Flamingo, 6.00 60.00
Euchantress, 3.50 30.00
Boston Market, 2.50 20.00
The Queen, 2.50 20.00
Mrs. T. W. Lawson, 2.00 18.00
Gen. Masco, 2.00 18.00
Morning Glory, 2.00 15.00
Mrs. G. M. Bradt, 3.00 25.00
Melba, 1.50 12.00
Queen Louise, 1.50 12.00
White Cloud, 1.50 12.00
List of other varieties on application.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as de-
sired.
Bride, Bridesmaid, Golden Gate, from 2 1/2
inch pots, \$12.00 per 100. Killarney, \$18.00 per
100; Franz Deegen, from 2 1/2 inch pots, \$16.00 per
100.

OWN ROOT, FINE STOCK.
Bride, Bridesmaid, Golden Gate, \$4.00 per
100; \$38.00 per 1000.

GERANIUMS

Double and single varieties. 100 1000
Strong pot plants, \$3.00 \$25.00
Strong rooted cuttings, 2.00 15.00

VERBENAS

Best Mammoths, rooted cuttings, \$1.00 \$8.00

CHRYSANthemUMS
ROOTED CUTTINGS

Send for catalogue for varieties and prices.

MISCELLANEOUS

Ageratum, Cope's Pet, White Cap, 100 1000
P. Pauline, S. Gurney, L. Bonnet, \$1.00 \$9.00
Achyranthes, four colors, 1.00 8.00
Cannas, dry roots, named varieties, 2.00 18.00
Coleus, best bedding and fancy sorts, 1.00 8.00
Cuphea, 1.25 10.00
Fuchsia, double and single, 2.00 15.00
Feverfew, double white, 1.50 12.00
Heliotrope, light and dark, 1.25 10.00
Impatiens Sultanii, 2.00 10.00
Moon Vine, true white, 2.00 15.00
Salvia, Splendens and Bedman, 1.25 10.00
Salvia, new early flowering sorts, 1.50 12.00
SMILX, 2 1/2 in., \$2.50 per 100; \$20.00 per 1000;
3 in., \$3.00 per 100.
ASPARAGUS SPRENGERI, 3 in. pots, \$6.00
per 100; 3 1/2 in., \$8.00 per 100.

WOOD BROS., Fishkill, N. Y.
Mention the Florists' Exchange when writing.

New York.
News of the Week.

It will be "Rose Night" at t
meeting of the New York Floris
Club Monday evening, March 13,
7:30 o'clock in the Grand Opera Hou
Building, corner of Twenty-third str
and Eighth avenue. The Bowling Cl
will meet on the same day at 3 p. m
at the alleys in the Puritan Cafe, We
Thirtieth street.

At the Florists' Club meeting, Robe
Kift, Philadelphia, will read a pap
entitled "The Rose in Decorative Ar
which will no doubt be of much i
terest, as Mr. Kift is a well-know
speaker and a recognized authority
all matters pertaining to the decorat
side of the business. Importa
changes in the by-laws will come
for final consideration, and every me
ber should endeavor to be present.

Since the coming of Ash Wednesda
there has been a decided quietness
flower circles, but it is not expect
that this dullness will prevail for mo
than a few days, as usually, after t
first few days of Lent, business aga
assumes its normal condition.

James McHutchison, importer, a
Miss Grace Elizabeth, daughter of
W. Edgar, Waverly, Mass., will
united in marriage on Wednesday
March 15.

Mr. Walter, of the firm of Stumpp
Walter, seedsmen, has been at home
for several days, but is now on t
road to recovery.

At the meeting of the American I
stitute, horticultural section, on We
nesday evening, March 8, Professor
C. Corbett, of the Department of Agri
culture, Washington, D. C., and Patri
O'Mara, New York, were to be th
speakers on the subjects, "Can Spor
ing in Plants be Induced?" and "Spor
from a Florists' View." The weath
was so inclement that there was but
very sparse attendance, and no mee
ing occurred.

William Elliott & Sons will hold the
first auction sale of the season on Tue
day, March 14, when they will dispos
of a choice lot of rhododendrons, hard
roses and conifers, roots, etc.

Hitchings & Co., horticultural buil
ders, will in the near future remov
their New York offices further uptown.
For a number of years they have bee
located at 233 Mercer street. The fir
was established during the first half
of the last century, and their factories a
located in Jersey City. Just where th
new offices will be situated we are ye
unable to say.

Chicago.

News Notes.

The committee appointed by th
Florists' Club to appear before th
legislative appropriation committee a
Springfield, with other prominent flor
ists from the State, report that goo
progress was made in their efforts t
get the Legislature to appropriat
\$30,000 for State experimental work.

The organization of a State Florists
Association is under contemplation by
several prominent men identified wit
the trade. If this is formed, it wil
assist in the endeavor to have the fore-
going bill passed.

The Howe & Taylor Manufacturing
Company have leased a large space of
the Growers' Market, and put in a
stock of wire designs. These they wil
also manufacture there.

ROBERT JOHNSTONE.

CHRYSANthemUMS NOW READY

Wm. Duckham, Dr. Enguehard J. C. Nevill, F. S
Vallis, Ben Wells, Donald McLeod, rooted cuttings
\$3.00 per 100; 2 in. \$5.00 per 100. Emily Milchem
Mertham Yellow, Mrs. Wm. Duckham, ready Ma
1st. Send for regular list. Cash with order please
No order filled for less than one dollar.

R. ENGELMANN & SON, Pittsfield, Mass

BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE
YOUR CUSTOMER, WE HAVE PREPARED

Cultural Directions

COVERING A NUMBER OF THOSE PLANTS AND BULBS
MOST LARGELY IN DEMAND

THE "CULTURALS" have been written by experts; they are fuller, and con-
tain more detailed directions than it is possible to embrace in a catalogue.
Equipped with these, just hand one out with each sale, and save yourself
considerable present and future trouble, as the customer will then be able to consult
the directions instead of having to continually resort to you for advice.

The following "Culturals" will be ready March 25
Send in your orders now

AMARYLLIS (Hippeastrum) FREESIA PANSY
ANNALS FROM SEED GERANIUM PERENNIALS, Hardy
ASPARAGUS GLADIOLUS PRIMULA
CANNA GLOXINIA ROSES
CHINESE SACRED LILY HOUSE PLANTS, Care of SWEET PEA, The
CHRYSANthemUM HYACINTHS, Dutch and TRIFOLIUM AND IRIS
CLIMBING PLANTS, Hardy Roman TUBEROSE
COLEUS and other Bedders LAWNS TUBEROUS BEGONIA
CROCUS, Snowdrop and LILY CULTURE for House TULIP
Scilla Sibirica and Garden VEGETABLES
DAHLIA MUSHROOMS WATER GARDEN, How to
FERNS PALMS, House Culture of Make and Manage a

PRICE LIST

Printed on white paper, clear type, size 6 x 9 1/2 inches, in an assortment, your selection,
of not less than 100 of each, delivered carriage paid:

500 Cultural Directions for \$1.50
1,000 " " " " \$2.50

Sufficient space will be left at the bottom of each leaflet for your name, address, etc. If
you desire this imprint (3 lines) we will put same on for you, at 50 cents for 500, 75 cents for 1000.
Special quotations will be made on quantities of 10,000 "CULTURALS" or over.

A. T. De La Mare Ptg. and Pub. Co. Ltd.

Publishers The Florists' Exchange

P. O. Box 1697 NEW YORK

HAVE YOU received one of our Cut Flower Box
Price Lists? If not, write for one.
VAUGHAN & SPERRY 60 WABASH AVENUE
CHICAGO, ILL.

REED & KELLER

122 W. 25th St., NEW YORK
Importers and Manu- FLORISTS' SUPPLIES Galax Leaves and a
facturers of Decorative Greens.
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.
Mention the Florists' Exchange when writing.

60,000 Grafted Rose Plants

We are now grafting on English Manetti the above amount of all selected flowering wood. NO BLIND wood used at all. We offer for sale, delivery about April 1st, in 2 1/2-inch pots, thoroughly hardened off and ready to shift into 3 1/2-inch, the following:

Bride	Per 100	\$10.00
Bridesmaid	Per 100	10.00
La Detroit	Per 100	12.00
Gen. MacArthur	Per 100	12.00
Liberty	Per 100	12.00

ROOTED CUTTINGS—Ready Now.

Bride, Bridesmaid	Per 100	\$1.50
Chateau	Per 100	1.50
Liberty	Per 100	2.50
Perle	Per 100	2.50

CARNATIONS

Gov. Wolcott	Per 1000	\$12.50
White Cloud	Per 1000	12.50
Norway	Per 1000	12.50
Lawson	Per 1000	12.50
Morning Glory	Per 1000	12.50
Joost	Per 1000	12.50
Enchantress	Per 1000	25.00
Flamingo	Per 1000	50.00
Crusader	Per 1000	40.00
Estelle	Per 1000	25.00
America	Per 1000	12.50
Crane	Per 1000	12.50
Prosperity	Per 1000	12.50
Gaiety	Per 1000	15.00

All Plants Shipped from Hinsdale.
BASSETT & WASHBURN
 Greenhouses: HINSDALE, ILL.
 STORE:
 76 Wabash Ave., CHICAGO, ILL.
 Mention the Florists' Exchange when writing.

Asters.

Those believing the item of asters and the raising of this common garden annual of little importance and hardly worth considering, will probably modify their opinion when they learn that now hundreds of acres are set aside for this culture annually, and that, two years ago, a thousand dollars as the net returns from an acre of asters, or several hundred dollars from an ordinary garden-patch, was nothing unusual. Although not nearly as profitable as a few years ago, the raising of asters for their cut flowers still pays handsomely, where the grower sticks to the very best in asters obtainable, and where he succeeds in fighting his way clear of bugs, yellows, stem rot and all the many other evils that beset the plants.

The aster specialist of the present time has to be on the watch for trouble from early till late, and when it comes, which it is sure to do, he has his hands full. Some ten or fifteen years ago we could raise the very finest asters with both eyes shut; that was when nobody cared for them. Now, when we want them so badly, their culture has become a bitter and vexatious harassment. But supposing he succeeds in overcoming all these obstacles in their culture, the grower will encounter a fresh lot of drawbacks in the marketing of his product. His very finest asters, that should bring from 2c. to 4c. apiece, will just be ready for cutting when the market is overstocked with millions of the very same grade, hard to move and averaging figures, disheartening to grower and wholesaler alike, when, could they have been had a few weeks earlier, they would have brought fancy prices. Those who started asters early in January, expecting to reap an early crop of flowers, if these asters are of the early sorts, they will bloom in July, and if of the late varieties they will commence to flower in August; and so will all those asters sown now and as late as the beginning of May. It does not seem to matter much how soon the China asters are started, they will all bloom at their proper time. The only difference noticeable is, that those early sown will be somewhat taller and more subject to disease than those started late. March and April, I hold, is the best time to sow the seeds of all kinds of asters for the general bedding plant trade and for the florist's own use, excepting those wanted very late, which may be sown as late as July. These hardly ever pay, being short and stunted and having to compete with chrysanthemums. The seeds should be sown in the purest and freshest of soil, to which, if not nat-

urally sandy, a quantity of clean sand might be added, but no fertilizer of any kind. A rather cool place, say 55 degrees, is better for the seed boxes than one very warm. The seedlings should be transplanted either into other boxes, into frames or into small pots, before they are much over an inch high. Soil a little richer might then be used, and, later on a well-enriched piece of ground may be chosen for their culture, that being preferable to poor soil and not at all to be held responsible for stem rot and the many other hold-ups in aster culture. The little plants in seed box, bench or pots, need watching. A wilting of them, for the lack of water, followed by a spell of overwatering, is the very best form of an invitation extended to all sorts of trouble, and is invariably accepted. The plants should be hardened off quite early and, as soon as the weather permits, planted out in the field. The seeds, sown now, will result in good-sized plants for the bedding trade, and it pays to grow such plants in small pots.

F. W. TIMME.

ROOTED CUTTINGS CARNATIONS

Eachantress	Per 100	\$3.00	Floriana	Per 100	\$1.50
Lawson	Per 100	2.00	Morning Glory	Per 100	1.50
Queen Louise	Per 100	2.00	Gov. Roosevelt	Per 100	1.50
May Taylor	Per 100	1.50			

Strong healthy stock. Satisfaction guaranteed. Cash with order, please.
IEWETT CITY GREENHOUSES, Jewett City, Conn.
 Mention the Florists' Exchange when writing.

ROSES

From 2 1/2 in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000.
 Clothilde Soupert, best bedding and pot rose. Pink Maman Cochet, fine for Summer blooming. White Maman Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio
 Mention the Florists' Exchange when writing.

ROSES

Pot up now for Spring Sales.
 White and Pink, Mme. Cochet, Clothilde Soupert and Crimson Rambler, Field Stock, \$10.00 per 100. Philadelphia Rambler, 15c. See Shrubs, Vines, etc., advertised in this issue. Cash.

BENJ. CONNELL, West Grove, Pa.
 Mention the Florists' Exchange when writing.

BRIDE AND 'MAID

Strong 2, 3 and 4 eye cuttings, nothing smaller than two eye, rooted and ready for immediate delivery. \$1.50 per 100; \$12.50 per 1000.
 New hooking orders for Spring delivery, out of 2 1/2 in., \$3.00 per 100; \$25.00 per 1000. Out of 3 in., \$5.00 per 100; \$45.00 per 1000. Write for sample.

GEO. E. CAMPBELL Floutown, Penna.
 Montgomery Co.
 Mention the Florists' Exchange when writing.

GRAFTED ROSES

Bride and Bridesmaid
 Fine stock, from selected wood, some ready for 4-inch pots. I have only a few thousand more than I want for my own use.
 2 1/2-inch pots, \$10.00 per 100

R. T. MCGORUM, Natick, Mass.
 Mention the Florists' Exchange when writing.

200,000 YOUNG ROSES

FOR THE TRADE
LARGE ASSORTMENT H. P., H. T., TEA, Etc.
 All grown from wood taken from plants in the field. Figure this out for yourself—whether better than forced stock. Stock hard and easily shipped anywhere. Send for our low prices and let us tell you what we have.
CALIFORNIA ROSE CO., Los Angeles, Cal.
 Mention the Florists' Exchange when writing.

Save Money! Save Money!

Gain customers now and for future business, by advertising in **The Special Spring Edition of The Florists' Exchange**. Your "copy" sent in early will ensure our very best workmanship on your ads. No advance, and no reduction in regular rates, but you can rest assured on getting your money's worth, with interest.

Carnations

F. DORNER & SONS CO.
 LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

ROOTED CARNATION CUTTINGS

Potted and from Sand
 Nice clean stock of Enchantress, Nelson Fisher, M. A. Patten, Boston Market, Gov. Wolcott, White Cloud and Mrs. F. Joost. Last two varieties also unrooted.
 Prices on application.

C. G. VELIE & SON, Marlborough, N. Y.
 Valley View Greenhouses
 Mention the Florists' Exchange when writing.

CARNATIONS

Chrysanthemums and Violets
 Rooted Cuttings. Send for List
WILLIAM SWAYNE, P. O. Box 226, Pa.
 Kennett Square.
 Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS.

	100	1000		100	1000
Lady Bountiful	\$6.00	\$50.00	Adonis	\$2.50	\$20.00
The Belle	6.00	50.00	Lawson	1.50	12.50
Flamingo	6.00	50.00	Prosperity	1.50	12.50
Nelson Fisher	6.00	50.00	Nelson	1.50	12.50
Mrs. Patten	6.00	50.00	Gov. Wolcott	1.50	12.50
Eachantress	3.00	25.00	Fairmaid	1.50	12.50
Manley	3.00	25.00	White Cloud	1.50	12.50
Boston Market	2.50	20.00	Morning Glory	1.50	12.50
Harry Penn	2.50	20.00	Floriana	1.50	12.50
			Joost	1.00	8.00

CERANIUMS
 Rooted Cuttings, at \$2.00 per 100, in the following varieties: A. Ricard, S. A. Nutt, Marvel, Beate Poitevine, M. Chavellerie, Mme. Jaulin, Mrs. E. G. Hill, Mrs. Landry, Dryden, Franck Perkins Mrs. Crabbs.
TRIGO, \$4.00 per 100.
FERNs—Boston Ferns, 2 1/2 in., \$4.00 per 100; 3 in., \$6.00; 4 in., \$12.00; 5 in., \$20.00; 6 in., \$40.00; 7 in., \$90.00. We have an especially large quantity of 2 1/2 and 3 in. sizes.
 Cash or C. O. D.
W. J. & M. S. VESEY, Fort Wayne, Ind.
 Mention the Florists' Exchange when writing.

The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.
 Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.
 Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.
 Delivery strictly in rotation, beginning April first.

PRICES

OWN ROOT	GRAFTED
\$25.00 per 100	\$30.00 per 100
55.00 per 250	70.00 per 250
100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories
NATICK, MASS.
JOHN N. MAY, Summit, N. J.
 Mention the Florists' Exchange when writing.

ROSES

CARNATIONS and CHRYSANTHEMUMS
 Write For Prices
JOHN N. MAY, Summit, N. J.
 Mention the Florists' Exchange when writing.

NEXT SATURDAY WEEK

An advertising opportunity that should not be neglected.
Purchasers waiting for your offers.

An issue that will be read from cover to cover, and distributed
from the Atlantic to the Pacific.

Our Sixteenth Annual Special Spring ..and.. Easter Trade Edition

THIS Special appears at the most opportune time of year for hundreds of advertisers. Spring Surpluses, Easter Stock, and the usual run of planting-out material, will be largely in demand, as will also be the many seasonable offers of the Seedsmen and Nurserymen.

The object of this Spring Special is to give our advertisers the opportunity of the year to secure their share of the business and the profits which are at this time available.

DATE OF ISSUE

Saturday, March 25

We therefore solicit your special advertising for this edition, confident in the belief that you will find your outlay well rewarded.

Extra features of interest in both reading matter and illustrations will greatly enhance the value of this Special Edition.

Write your advertisement now. Make it bold and prominent. Tell your story in an interesting way. THE FLORISTS' EXCHANGE will do the rest. The earlier we receive your "copy" the more time we will have in which to make it attractive. Send it in to reach us by the 20th of March, if possible.

**A Business Edition for Business Men in an
Unsurpassed Business Bringer**

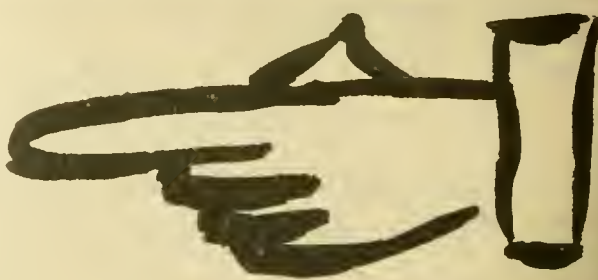
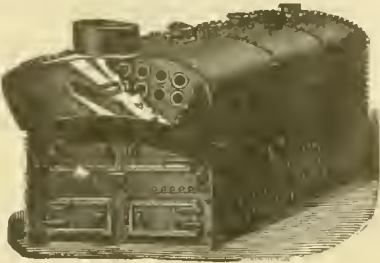


P. O. BOX 1697
NEW YORK CITY

Contents.

Table with 2 columns: Item Name and Page Number. Includes sections like 'A Valuable Book', 'American Rose Society', 'Bowling', 'Business Difficulties', 'Carnation Crisis', etc.

Kroeschell Bros. Co. IMPROVED Greenhouse Boiler 33 ERIE ST., CHICAGO



ORDER NOW

Prices will be higher later on. Place your order now and save money. Will ship Boiler when wanted; you do not pay until Boiler is shipped. Write for information and prices

LIST OF ADVERTISERS

Table listing various advertisers and their page numbers, including Acheson L. W., Allen J. K., Anderson & Christensen, Aschmann G., etc.

Table listing various advertisers and their page numbers, including Meserve E. R., Metropolitan Mstl., Michell H. F., etc.

Table listing various advertisers and their page numbers, including Carnations, Chrysanthemums, Cineraria, etc.

Table listing various advertisers and their page numbers, including MODEL EXTENSION, Carnation Supports, Chrysanthemum Novelties, etc.

INDEX TO STOCK ADVERTISED

Table listing various plants and seeds, including Asparagus, Asters, Azaleas, Begonias, etc.

Special Spring Trade Edition ISSUED MARCH 25. SEND YOUR ADV. NOW.

JAMES E. BEACH 2019 Park Avenue, BRIDGEPORT, CONN. Mention the Florists' Exchange when writing.

arch 11, 1905

J. K. ALLEN

Wholesale Commission Dealer in Cut Flowers
 Telephone, 106 W. 28 St., NEW YORK
 Open at 7 Mad. Sq. 8 A. M.
 Consignments Solicited.
 Prompt Payments.
 Mention the Florists' Exchange when writing.

C. BONNET G. H. BLAKE
BONNET & BLAKE
 Wholesale Florists
 6 Boerum Place, BROOKLYN, N. Y.
 Telephone 4638 Main.
 Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
 Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE
 Sixth Ave. and 26th St.
 Loogen Building NEW YORK
 Open every Morning at Six o'clock for the Sale of Cut Flowers
 Wall Spacs for advertising purposes to Rent
J. DONALDSON, Secretary
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 Always ready to receive Fine Stock
WILLIAM H. GUNTHER
 30 West 29th Street
 Phone, 551 MADISON SQ. NEW YORK
 Violets, Roses, Carnations, Orchids
 ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION
"VICTORY"
 To be disseminated 1906. Also a complete line of choicest flowers.
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CUT FLOWERS
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 113 W. 30th St., New York
 Telephone, 851 Madison Square

HICKS & CRAWBUCK
 Wholesale Florists
 And Dealers in FLORISTS' SUPPLIES
 108 Livingston Street
 Phone, 3660-3661 Main BROOKLYN, N. Y.

JULIUS LANG
 Wholesale Florist
 53 WEST 30th STREET
 NEW YORK
 Consignments Solicited. Telephone, 280 Madison Sq.

All Choice Cut Flowers in Season
ALFRED H. LANGJAHR
 55 West 28th St., New York
 Telephone 3924 Madison Square.
 ESTABLISHED 1891 BUY FROM SHIP TO TRY **ME**
 Mention the Florists' Exchange when writing.

JAMES McMANUS Telephone 769 Madison Square
50 W. 30th St., New York
 Beauties, Meteors, Brides and Bridesmaids are the leaders.
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & HUGHES
 Wholesale Florists
 55 and 57 West 26th Street, NEW YORK
 SPECIALTIES Violets, Carnations and Roses
 Shipping orders receive prompt attention. Consignments Solicited.
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TRAENDLY & SCHENCK
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 AND CUT FLOWER EXCHANGE
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 Mention the Florists' Exchange when writing.

YOUNG & NUGENT
 WHOLESALE FLORISTS
 42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY
 WHOLESALE COMMISSION FLORIST
 Receiver and Shipper of all varieties of Cut Flowers
 Telephones: { 2200 Madison Square
 { 2201 Madison Square
 57 West 28th Street, NEW YORK

Wholesale Prices of Cut Flowers, New York, March 10, 1905.
 Prices quoted are by the hundred unless otherwise noted.

A. BEAUTY, fancy-special	25.00 to	35.00	Carnations	Inf'r grades, all colors.....	.75 to	1.00
" extra	12.00 to	20.00		STANDARD } White.....	1.00 to	1.50
" No. 1	8.00 to	12.00		VARIETIES } Pink.....	1.00 to	1.50
" No. 2	3.00 to	6.00		} Red.....	1.00 to	1.50
" No. 3	1.00 to	2.00		} Yel. & Var..	1.00 to	1.50
Bride, 'Maid, fancy-spe'	8.00 to	10.00		*FANCY-- } White.....	1.00 to	2.00
extra	4.00 to	6.00		(The highest } Pink.....	1.00 to	2.00
" No. 1	2.00 to	3.00		grades of } Red.....	1.00 to	2.00
" No. 2	1.00 to	2.00		standard var.) } Yel. & Var..	1.00 to	2.00
" No. 3	1.00 to	2.00		NOVELTIES	2.00 to	3.00
Golden Gate	2.00 to	8.00	LILY OF THE VALLEY	1.00 to	2.00	
Liberty	3.00 to	25.00	MIGNONETTE, ordinary	1.00 to	4.00	
Meteor	1.00 to	6.00	fancy	4.00 to	6.00	
Mme. Abel Chatenay	1.00 to	6.00	NARCISSUS, Paper White.....	.50 to	1.00
ADANTUM.....	.50 to	.75	Ordinary Yellow.....	.50 to	1.00
CROWANUM.....	.50 to	.75	Double Yellow	1.00 to	2.00
ASPAERUS	25.00 to	50.00	PANSIES, per dozen bunches.....	.00 to	.25
Sprenger's bunches	15.00 to	35.00	ROMAN HYACINTHS	1.00 to	2.00	
CALLAS	5.00 to	8.00	SMILAX	10.00 to	15.00	
CATTLEYS	50.00 to	60.00	STOCKS, per bunch.....	.10 to	.25
CYPRIPEDIUMS	6.00 to	10.00	SWEET PEAS.....	.50 to	.75
DAISIES.....	.50 to	1.50	TULIPS	1.00 to	2.00
FREEBIAS, per bunch.....	.10 to	.25	VIOLETS.....	.15 to	.20
LILAC, per bunch.....	.50 to	.60	specials.....	.20 to	.35
LILIES	3.00 to	8.00				

WALTER F. SHERIDAN
 Wholesale Florist
 Telephone, 902 Madison Square
 39 WEST 28TH ST., NEW YORK
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
 American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
 Telephone, 1998 Madison Square
JOHN I. RAYNOR, 49 West 28th St., NEW YORK

We have a fine grade of everything in market at present.
 Send us a Trial Order and we will do the rest.
EDW. C. HORAN
 55 West 28th Street
 Telephone, 421 Madison Square
NEW YORK
 CUT FLOWERS AT WHOLESALE
 Mention the Florists' Exchange when writing.
 Receiving Daily Fine PRES. CARNOT KAISERINS METEORS BEAUTIES Etc.

Providence, R. I.
 he Week's News.
 William Butcher has decided to retire and has sold his plant to a Philadelphia party. This is one of the oldest established businesses in town, and has been especially well known for the quality of its landscape and gardening work.

M. J. Leach, of Pawtucket, recently celebrated his sixtieth birthday, and is now contemplating a visit from the Florists' Club at a near date.
 The Rhode Island greenhouses have a great line of hydrangeas for Easter. W. Edgar, of Waverly, Mass., inspected them recently and would like to buy the entire lot.
 Frank Sullivan, of Westminster, is reporting the largest line of funeral work locally.
 Macnair spent most of last week in New York and Boston looking around for Easter novelties.
 Business is reported good, with fair prices, and plenty of stock in sight.
 C. S. MACNAIR.

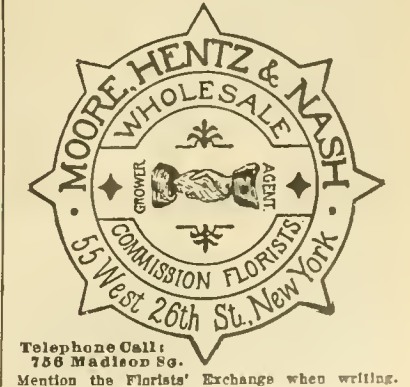
Cincinnati.
 News Items.
 Martin Reukanf was in the city Saturday on his way to the sunny South.

W. E. Hall, Clyde, O., sent the writer a few blooms of his new scarlet carnation, parentage Prosperity and a crimson. The stems are three feet in length, strong and wiry, calyx splendid; four-inch blooms. Mr. Hall says he has been growing this variety since 1902. It is an easy doer and very productive. The flower is of good substance and fine form, and the color is good. It looks to me as though there was a place for it.
 Next week I hope to tell you all about the carnations at our annual show, to be held Saturday. E. G. GILLET.

Milwaukee.
 News Notes.
 The Florists' Club intends having a carnation night at its next meeting. Plans are also on the way for holding a Spring exhibition open to the public.
 There is a heavy stock on the market now in nearly all lines of seasonable flowers. There seems to be an over supply of bulbous stock; violets are also moving slowly. There are enough carnations and roses to go around, and fancy grades find a ready market. There is also a large variety of blooming plants in the market, but growers complain of poor sales. RASTUS.

KANSAS CITY, MO.—Plans for holding a flower show in Kansas City this Fall are being considered. W. L. Rock received a letter recently from the directors of Convention Hall asking him to get the florists together for the purpose of considering the feasibility of the show.

A. L. YOUNG & CO.
 WHOLESALE FLORISTS
 54 West 28th Street, New York
 Receivers and Shippers of CUT FLOWERS.
 Consignments solicited. Prompt settlements



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 Mention the Florists' Exchange when writing.
Satisfaction Is Yours
 when you advertise in THE FLORISTS' EXCHANGE because it is the Leading Trade Paper.

The Florists' Exchange

GARDENIAS \$3.00 Per Doz.
WHITE VIOLETS

Special price on regular orders and in quantity

SAMUEL S. PENNOCK
 THE Wholesale Florist of Philadelphia

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R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses, Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN 7.30 A.M. to 8.00 P.M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

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FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.
 504 Liberty Ave., PITTSBURG, PA.

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CARNATIONS

In Any Quantity. No better stock coming to this market

THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A.M. to 8 P.M. 1217 Arch St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

White Lilac, Gardenias, Orange Blossoms, Daffodils

and other seasonable **SPRING FLOWERS**

Philadelphia Wholesale Flower Market
 1235-37 Filbert Street, PHILADELPHIA, PA.

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SCRANTON FLORIST SUPPLY COMPANY 201 North Seventh Ave. SCRANTON, PA.
 Importers and Manufacturers of **FRESH GALAX and LEUCOTHOE**
ALL FLORISTS' SUPPLIES SEND FOR CATALOGUE
 Mention the Florists' Exchange when writing.

GYGAS LEAVES

The very best that have ever been sold in this market, also medium quantities for sale at very moderate prices.

L. WERTHEIMBER & CO., Foreign & Domestic Specialties, 39 Barclay St., New York.

Mention the Florists' Exchange when writing.

"Standard for Quality"
GALAX LEAVES, LEUCOTHOE SPRAYS
GREEN SHEET MOSS

WM. G. SMITH, Marion, N.C.

Sold in New York by L. J. Kreshover; Philadelphia, S. S. Pennock; Buffalo, Wm. F. Kasting; Albany, H. L. Menard; Pittsburg, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Renne & Pino.

Mention the Florists' Exchange when writing.

MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager
 FANCY FERNS, \$1.50 per 1000.
 DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.
 Mention the Florists' Exchange when writing.

UNRIVALED COLLECTION OF

SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$6.00; 25-lb. case, \$3.25.

GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.

Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. **Green Sheet Moss**—Per bbl. sack, \$2.50.

All Kinds of Florists' Supplies.

L. J. Kreshover, 112 West 27th Street, New York, Tel. 697 Madison Sq.

Mention the Florists' Exchange when writing.

N. LECAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214 Madison Square
 Stands at Cut Flower Exchange Coogan Bldg., W. 28th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and LeucotHOE Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves
 75c. per 1000.

Mention the Florists' Exchange when writing.

FANCY OR DAGGER FERNS
 \$1.25 per 1000.

GALAX, brilliant bronze or green, 75c. per 1000, \$6.50 per case of 10,000. **Laurel Festooning**, hand-made, full size, 4c., 6c. and 8c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle. **Southern Wild Smilax**, \$5.50 per 50 lb. case. **Laurel Wreaths** and **Prince's Pine Wreaths** made all sizes and prices. **Prince's Pine** by the lb. and made into toping. Tell us your wants and we will name you prices.

CROWN FERN CO. MILLINGTON, MASS.
 Telegraph Office: New Salem, Mass.
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THE AMERICAN CARNATION
 Price, \$3.50

A. T. DE LA MARE PTG. & PUB. CO. LTD.

A. L. FORTUNES

Wholesale and Retail Dealer in **DAGGER FERNS** and **GALAX LEAVES**

Bronze or Green Galax, 75c. per 1000; \$8.50 per case. **SPECIAL**, Our Dagger Ferns, best quality, selected No. 1, \$1.00 per 1000, full count.

ONCE TRIED ALWAYS PREFERRED

431 State Street, NEW HAVEN, CONN.
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A. J. FELLOURIS

Wholesale and Retail Dealer in all kinds of **Evergreens** **Galax** Bronze or Green

\$1.00 Per 1000

FERNS, Fancy, \$1.50 per 1000
 Dagger, \$1.00 per 1000

468 Sixth Ave., New York

BETWEEN 28th and 29th STREETS
 TELEPHONE 4009R MADISON SQUARE

Mention the Florists' Exchange when writing.

HARDY CUT FERNS

Fancy and Dagger, \$1.50 per 1000; discount on large orders. **Sphagnum Moss**, first quality, 60c. per bbl.; second quality, 30c. per bbl. **Laurel Roping**, hand made and well put together, 4c. per yd. **Spruce Bush**, for cemetery use. **Elm and Maple Trees**, for planting. **Bonquet Green**, for Easter.

Cash with all orders or no attention paid.

Thomas Collins, Hinsdale, Mass.

Mention the Florists' Exchange when writing.

BERGER BROS. WHOLESALE FLORISTS

Bell and Keystone Phones 1220 Filbert Street, PHILADELPHIA
 Mention the Florists' Exchange when writing.

CALL ON **EUGENE BERNHEIMER** FOR PROMPT DELIVERY ON
Carnations, Roses and Spring Flowers 11 South 16th Street, PHILADELPHIA

Mention the Florists' Exchange when writing.

HARDY CUT DAGGER AND FANCY FERNS

\$1.50 per 1000.

WILD SMILAX, \$4.00 and \$7.00 per case.
GALAX, New crop. Green and bronze. \$1.00 per 1000.

Headquarters for all **FLORISTS' SUPPLIES**, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelle, Cyana Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 5c. and 6c. per yard..

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mas s
 L. D. Telephone, Main 2818.

HIGH GRADE SOUTHERN WILD SMILAX
 AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

Special facilities for handling large orders. Write, Wire or 'Phone
E. A. BEAVEN, Evergreen, Alabama

Not to Be Represented
 in our Special Spring Trade Issue of March 25 means that the grower who has stock to sell will be **OUT OF POCKET.**

READY NOW 2,000 HARRIS EASTER LILIES!
 1 1/2 to 4 ft. high, with fine foliage.
 10 cents per bud or flower, in pot or cut.

CHRISTIAN DEHN
 178-80 Beekman St., Saratoga Sp'gs, N.Y.
 Mention the Florists' Exchange when writing.

Worcester Conservatories
 Wholesale Growers of **CUT FLOWERS**

Prompt attention given all orders.
WORCESTER, MASS.
 Mention the Florists' Exchange when writing.

Headquarters in Western New York
 For **ROSES, CARNATIONS** and all kinds of Seasonable Flowers.

WM. F. KASTING
 Wholesale Commission Florist

ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS

383-87 Ellicott St. BUFFALO, N.Y.
 GIVE US A TRIAL WE CAN PLEASE YOU

Mention the Florists' Exchange when writing.

Cleveland.

News Notes. The unfortunate accident which occurred March 3 on the Pittsburg & Fort Wayne Railroad was instrumental in promoting a healthy movement in the disposal of cut stock. Good roses and carnations, white plentiful, command the maximum price. Bulbous stock moves slowly. The craft extends its sympathy to James Wilson and brothers, who buried their mother on Friday, March 3. Mrs. Wilson had five sons, four of whom are florists. Miss Anna L. Westman has just recovered from an attack of inflammatory rheumatism. Smith & Fetters will remove to their new store at 169 Euclid avenue, April 1. Mrs. Caspar Aul is still very ill. O. G.

Cromwell, Conn.

Mr. and Mrs. Frank A. Pierson have returned from Washington, where they were as the guests of Congressman Lilly, of Waterbury, to attend the inaugural ceremonies. Wallace R. Pierson reached home this week from Southern California, where he spent the winter. Returning by the Southern route he stopped in Texas, and also made a short trip into Mexico, of which the readers of The Florists' Exchange will hear more later. H.

WORCESTER, MASS.—Fisher, formerly Fisher & Son, report that outside of holiday season they never had as much business as they are doing at the present time. There was some talk of closing up their branch store, but there also trade picked up, and the store is still continued. George E. Fisher, of this firm, has severed his connection with his father, and about February 1 assumed the management of the store of Patten, the florist, at Lowell, Mass.

Inaugural Day here was celebrated by H. F. Littlefield in the opening of his branch store. A. J. Maher and Miss Annie Berglund will run the new branch. Miss Elizabeth Wilson, who has been associated with her father, J. Wilson, Burlington, Vt., for many years, has entered the employ of Mr. Littlefield.

The Massachusetts Fruit Growers' Association met here March 8 and 9. March 8 occurred the annual banquet of the Horticultural Society, followed by a ball in the evening. About 375 attended the banquet and more in the evening. March 9 the society held its weekly exhibition, consisting principally of fruit and vegetables.

CAROLUS.

LOUISVILLE, KY.—Joseph Coenen announces the sale of his interest in the firm of Coenen & Bohman to his partner, John Bohman, the sale to take effect July 1. Mr. Coenen intends going West, but has not decided positively where he will locate. Adam Heitz is putting up two new houses, each 22x145 feet, one of which will be devoted to roses, the other to carnations. A. R. B.

SYRACUSE, N. Y.—The Oakwood Cemetery Association has broken ground for a new addition to its conservatories. The house will be 150x18 feet, devoted to carnations.

P. R. Quinlan & Co. have also commenced the erection of two large rose houses at Onondaga Valley. J. B. B.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always. Size No. 0 3x4x20 \$2.00 per 100; \$19.00 per 1000 1 3x4x16 1.50 2 3x4x18 2.00 3 3x4x18 2.50 4 3x4x24 3.75 5 4x4x22 3.00 6 4x4x28 3.75 7 6x16x20 5.50 8 3x7x21 3.00 9 5x10x35 6.50 10 7x20x30 7.50 11 3x5x30 3.00 Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.

THE LIVINGTON SEED CO., Box 104, Columbus, O. Mention the Florists' Exchange when writing.

Wm. J. BAKER Wholesale Florist 1432 S. Penn Square, PHILADELPHIA, PA. Seasonable Cut Flowers Fine Quality Both 'phones.

DUMONT & CO. Wholesale Florists Carnations a Specialty No. 1305 Filbert St., Philadelphia Bell and Keystone 'Phones.

WM. J. MOORE Wholesale Florist 1235-37 FILBERT STREET Philadelphia Flower Market Bldg. PHILADELPHIA, PA. Bell and Keystone 'Phones. Consignment of CARNATIONS and ASPARAGUS, Solicited.

EDWARD REID Wholesale Florist 1526 Ransdell Street, PHILADELPHIA Bet. Market and Chestnut Streets Choice Stock Always on Hand Telephone 1-42-26-A. Mention the Florists' Exchange when writing.

A DAILY CUT FROM 40 GROWERS We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main. Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE. E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

J. B. MURDOCH & CO. Wholesale Florists FLORISTS' SUPPLIES 545 Liberty St., PITTSBURG, PA. Long Distance 'Phone, 1435 Court. Mention the Florists' Exchange when writing.

J. B. DEAMUD Successor to Illinois Cut Flower Co. Wholesale Cut Flowers Consignments Solicited. 51 and 53 Wabash Avenue, CHICAGO

SINNER BROS. Wholesale Growers and Shippers of CUT FLOWERS 58-60 Wabash Ave., Chicago, Ill. With the Flower Growers' Co. TELEPHONE, CENTRAL 8067. All telephone and telegraph orders given prompt attention.

VAUGHAN & SPERRY 58-60 Wabash Ave., CHICAGO WHOLESALE FLORISTS Florists' Supplies All Cut Flowers at Ruling Market Prices

CHARLES W. McKELLAR Wholesale Commission Florist and Dealer in all Florists' Supplies 51 WABASH AVENUE, CHICAGO Correspondence Invited from Growers of Specialties in Cut Flowers Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, St. Louis. Lists various flower types like A. BEAUTY, BRIDE, GARNATIONS, etc. with prices per 100.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co. MILWAUKEE, WIS. Mention the Florists' Exchange when writing.

Wired Toothpicks 10,000, \$1.50; 50,000, \$6.25 MANUFACTURED BY W. J. COWEE, Berlin, N.Y. Samples free. For sale by dealers. Mention the Florists' Exchange when writing.

BOSTON, MASS.

WELCH BROS. PROPRIETORS CITY HALL CUT FLOWER MARKET 15 PROVINCE ST.—9 CHAPMAN PL. Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268. Mention the Florists' Exchange when writing.

H. G. BERNING Wholesale Florist 1402 Pine Street, ST. LOUIS, MO. Mention the Florists' Exchange when writing.

HOLTON & HUNKEL CO. Wholesale Florists Florists' Supplies Manufacturers of Wire designs. 457 Milwaukee Street, MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103. Mention the Florists' Exchange when writing.

Unminced Words.

THE FLORISTS' EXCHANGE is the best-paying trade medium to the advertiser to-day. Its Spring Edition will be issued March 25. You can't afford to be out of it.

HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?



It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of one hundred Pounds.

Per doz.
No. 1 will fit from 2 to 5-inch pots 30c.
No. 2 will fit from 5 to 8-inch pots 40c.
No. 3 will fit from 8 to 12-inch pots 50c.
By mail 10c. extra per doz. Sample pair 10c., postpaid. See last week's issue for advertisement of Florists' Letters, etc.

W. C. KRIGK 1164-86 Brooklyn, N. Y.
Greene Ave.
Mention the Florists' Exchange when writing.

Best kind, best of its kind for all hand work, is the
Success Knapsack Sprayer
Knapsack and Bucket Sprayer Combined.
Brass pump with bronze ball valves, 5 gal. copper tank, mechanical agitator; pump worked with either hand. Arranged for easy carrying and handling.
WE MAKE 20 STYLES SPRAYERS.
Hand, Bucket, Knapsack, Barrel, Field, Power. We meet all wants. Send for free catalog.
THE OEMING CO., SALEM, OHIO.
HENION & HUBBELL,
Western Agts., Chicago

Mention the Florists' Exchange when writing.

Sun Cured Cypress
GREENHOUSE MATERIAL
a750
HOT-BED SASH.
Tennessee Red Cedar posts
Pecky Cypress bench lumber.
FOLEY ventilating apparatus
Galvanized vent sash hinges
screw eyes, screwhooks, Unills,
Galvanized turnbuckles & wire.
Fittings for purlin and
ridge supports.
Free illustrated Catalogue!
FOLEY MFG. Co.
-CHICAGO-
471 W. 22ND ST.

Mention the Florists' Exchange when writing.

H. KENNEY
88 Rochester Ave., Brooklyn, N. Y.
Telephone, 742-A Bedford
WIRE Designs, assorted, \$10.00 per 100.
Select Spba num **MOSS \$1.50** per bale
Green **MOSS 75c.** per bag. Can deliver
from 1 to 100 bales at short notice. Will ship
to any part of the country.
Mention the Florists' Exchange when writing

HOTHOUSE GLASS
and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
10 Desbrosses St., New York
Mention the Florists' Exchange when writing.

CASPER LIMBACH
GREENHOUSE GLASS
A SPECIALTY
Window Glass. Painters' Supplies.
32 Washington Ave., Pittsburg, Pa.
31st Ward.
Mention the Florists' Exchange when writing

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

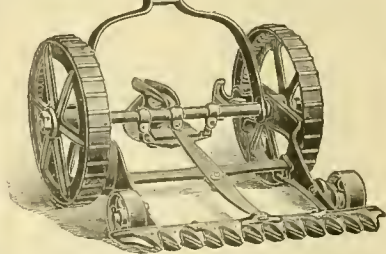
"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION
Mention the Florists' Exchange when writing.

Clipper Lawn Mower Co. DIXON, ILL.
The MOWER
that will Kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealers for them. If they have not got them, below is the price: No. 1 12-in. Mower, \$6; No. 2—15-in. Mower, \$8; No. 3—18-in. Mower, \$7; No. 4—21-in. Mower, \$8. Send draft, money order or reg. letter.
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GLASS
For GREENHOUSES, ORAPERIES, HOTBEDS CONSERVATORIES, and all other purposes Get our figures before buying. Estimates freely given
N. COWEN'S SON, 392-94 W. Broadway, NEW YORK
Mention the Florists' Exchange when writing

THE JENNINGS IMPROVED IRON GUTTER
PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.
DILLER, CASKEY & CO. Successors to JENNINGS BROS.
S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.
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EUREKA GREENHOUSES
Send for catalogue Greenhouse Material, Composition Posts Get the best
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.
Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS
THE WHILLDIN POTTERY COMPANY
PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.

National Florists' Board of Trade
NEW MANAGEMENT. Tel. Call, 655 John. HARRIS H. HAYDEN (Late Manager of the Nepera Chemical Company), President EDWARD MCK. WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer
56 PINE ST., Wallace Bldg., N. Y. CITY (Rooms 611-612)
Mention the Florists' Exchange when writing.

CEMENT BENCHES
NIAGARA CEMENT & CONCRETE CO.
NORTH TONAWANDA, N. Y.
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STANDARD FLOWER POTS
Packed in small crates, easy to handle.
Price per crate
1500 2 1/2 in. pots in crate, \$4.88 120 7 in. pots in crate, \$4.20
1500 2 3/4 " " " 5.25 60 8 " " " 3.00
1000 3 " " " 5.00 48 9 in. pots in crate, \$3.60
800 3 1/2 " " " 5.50 48 10 " " " 4.50
500 4 " " " 4.50 24 11 " " " 3.60
300 5 " " " 4.51 12 12 " " " 4.50
144 6 " " " 3.16 6 18 " " " 4.50
Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts. 81 Barclay St., N. Y. City
Mention the Florists' Exchange when writing.

NICO=FUME
TOBACCO=PAPER INSECTICIDE BY FAR THE BEST.
NICO=FUME SHEETS ARE READY FOR USE NO FOLDING IS REQUIRED JUST HANG EACH SHEET FROM THE HOLE PUNCHED IN ONE END. THEN LIGHT LOWER END. BLOW OUT FLAME AND LET THE SHEET BURN
No 1 LIGHTING (SHEET HUNG FROM PLANT STICK) No 2 SMOOKING
FOR SALE BY SEEDSMEN
24 Sheets, 75c.; 144 Sheets, \$3.50; 288 Sheets, \$6.50 (only 2 1/2 c. each).
PACKED IN FRICTION-TOP TINS, Preventing Loss by Evaporation.
Mfg. by Kentucky Tobacco Product Co. LOUISVILLE, KY.
Mention the Florists' Exchange when writing.

Automatic Greenhouse VENTILATORS
From \$25.00 up. Send for circular.
The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.
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SHEEP MANURE
Pulverized. Free from all Adulteration In Bags, \$18.00 per Ton
Special price on car load lots in bulk
ROBERT SIMPSON, Clifton, N. J
Mention the Florists' Exchange when writing

Nothing better can be made—or we would make them.
SYRACUSE RED POTS
will satisfy the critical and careful greenhouse manager.
Syracuse Pottery Co., SYRACUSE, N. Y.

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ESTAB. 1765
A. H. HEWES & CO.
No. CAMBRIDGE MASS L. I. CITY N. Y.
CATALOGUE FREE.

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GREENHOUSES.
MATERIAL FURNISHED AND MEN TO SUPERINTEND ERECTION IF DESIRED.
CYPRESS SASH BARS
ANY LENGTH UP TO 32 FEET OR LONGER.
THE A. T. Stearns Lumber Co., NERONSET, BOSTON, MASS.
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GREENHOUSE LUMBER

THE BEST RESULTS

In commercial growing are largely effected by having the best houses.

OUR DESIGNS embody the best features of greenhouse construction, and our estimates are always based on the very best grade of Gulf Cypress, this is absolutely free from sap.

QUICK SERVICE is assured in filling orders. Our new detail sheet mailed on request.

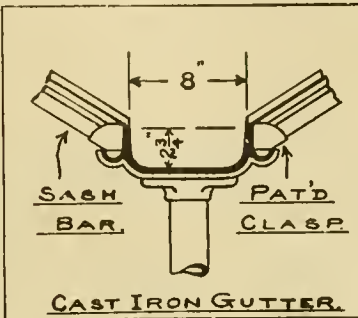
RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

Use Lord & Burnham Co.'s

Cast Iron Gutters




For your Greenhouse. They are straight, durable, and easily set in place. Being exposed to the inside heat of the house, they readily free themselves from snow and ice. Our gutters are provided with grooves to catch drip from roof, and patent iron clasps for fastening sash bars, also fittings to fasten the posts underneath. These gutters can be used with any style of house.

PRICES UPON APPLICATION

Catalogues of Greenhouse Construction, Heating and Ventilating will be mailed on request. Address New York Office.

LORD & BURNHAM COMPANY

New York Office General Office and Works
ST. JAMES BLDG., 1133 BROADWAY IRVINGTON-ON-HUDSON, N. Y.



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The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation.

The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market.

The Standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.

E. HIPPARD, Youngstown, O.



MASTICA

FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.
170 Fulton St., NEW YORK



Mention the Florists' Exchange when writing.

75,000 Square Feet Glass Surface

The above figures represent commercial heating contracts already signed for the season of 1905.

A SAMPLE COPY OF SOME OF THE LETTERS ON FILE AT MY OFFICE:

LYONS FAAMA, N. J., Feb. 1st, 1905.
Ma. Wm. LUTTON. Dear Sir:—I wish to state that I am well pleased with the heating of the two new carnation houses, that you installed for me last summer, the boiler works splendid, and is all that it is represented to be, I shall take great pleasure in recommending you to any persons contemplating heating work.
Yours very truly,
WM. G. MULLEN.

An opportunity to estimate on your proposed heating or repair work will be to your interest.

WM. H. LUTTON, Telephone 174 J, Bergen, West Side Ave. Station, Jersey City, N. J.
Eastern Agent for FURMAN and KROESCHELL BOILERS.
Mention the Florists' Exchange when writing.

Mention the Florists' Exchange when writing.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

GIBLIN & CO., Utica, N.Y.


Mention the Florists' Exchange when writing.

Evans Improved Challenge

Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.

Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, IND.



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CYPRESS

GREENHOUSE MATERIALS OF ANY DESCRIPTION

JOHN C. MONINGER CO.

111-125 Blackhawk St
Cor. Hawthorne Ave.
CHICAGO, ILL.



Mention the Florists' Exchange when writing.



Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the Best that Can be Produced.

Catalogue, plans and estimates free on request.

A. DIETSCH & CO., Patentee, 615-21 Sheffield Ave., CHICAGO.

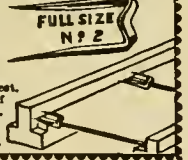
Holds Glass Firmly

See the Point of FULL SIZE No. 2

PEERLESS

Glazing Points are the best. No right or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREEH,
714 Chestnut St., Phila., Pa.



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GULF CYPRESS Greenhouse Material

Cut and Spliced Ready for Erection

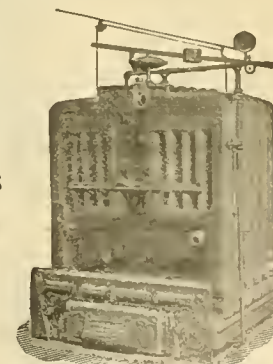
Hot Bed Sash

Pipe, Fittings, Ventilating Apparatus

GREENHOUSE GLASS

We furnish everything for Building Heating Installed

Send for Prices and Catalogue



S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N.Y.

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Scollay Invincible Boilers

FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

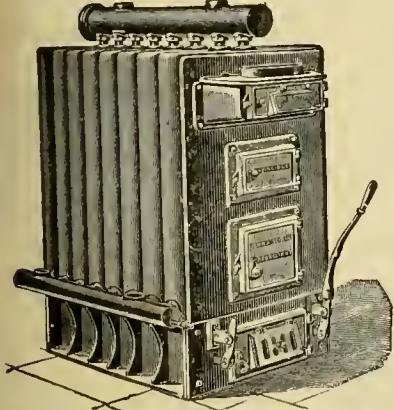
Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.

Horticultural building of every description.

JOHN A. SCOLLAY

72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.

Established 42 Years



Mention the Florists' Exchange when writing.

KING CONSTRUCTION COMPANY
 North Tonawanda, N. Y.,
 and Toronto, Canada.
 New Greenhouse Catalogue ready for
 distribution. Send for it.

Mention the Florists' Exchange when writing.

ASPARAGUS DECUMBENS, 3 in. pots, 750
 per doz., \$5.00 per 100.
 ASPARAGUS PLUMOSUS, fine plants, 3 in.
 pots, \$5.00 per 100.
 ASPARAGUS SPRENGERI, 2 in. pots, \$2.00
 per 100; \$15.00 per 1000; 500 at 1000 rate.
 ASPARAGUS SPRENGERI, strong, 3 in., 750.
 per doz.; \$5.00 per 100.
 CARNATIONS. Rooted cuttings. Write for
 prices and varieties.
 CLEMATIS PANICULATA, 4 in., \$1.50 per
 doz.; \$10.00 per 100.
 11th & Jefferson Sts.,
C. EISELE, PHILADELPHIA, PA.



Hitchings' NEW MOGUL BOILERS

For Hot Water or Steam
 HOT WATER Radiation from
 4,200 Square Feet and Up.
 STEAM Radiation from 2,500
 Square Feet and Up.
 Send four cents postage each
 for fully illustrated catalog
 on Greenhouse Construction
 and Heating and Ventilating.

HITCHINGS & CO.
 Horticultural Architects
 and Builders
 233 Mercer St., NEW YORK.
 ESTABLISHED 1844.

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A. HERRMANN
 Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES
 FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK
 OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.
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GEO. M. GARLAND
 Iron Cutters and Posts
 Patented December 27th, 1898.
 Send for Catalogue.
 Garland's Gutters will keep snow and ice
 off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

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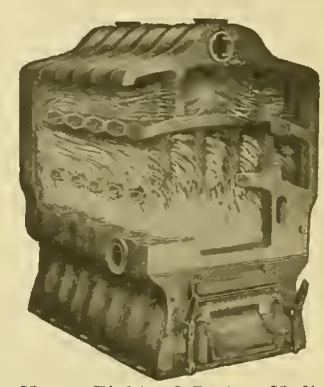
NOVELTIES for EASTER in large assortment
 including Stuffed
 Chickens, Ducks, Rabbits, Meadow Larks, and Full Size
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Twig Baskets, metal lined, several styles; Swan-Shaped Baskets;
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THE PIERSON-SEFTON Co.
 Horticultural Architects and
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 West Side Ave., So.
 JERSEY CITY, N. J.




Pierson Boilers

For Steam and Water
 are unsurpassed for efficiency
 and economy

Messrs. Righter & Barton, Madison, N. J., write: "August 5, 1904. The two
 'Pierson' sectional hot water boilers installed for our new houses one year ago gave excep-
 tional satisfaction during the past winter, the most severe for many years, easily fulfilling
 what was expected of them, at the same time proving to be economical.
 "We found them very easy to manage, that they responded promptly and heated the
 water in short time, thus giving splendid control of temperature in houses when sudden
 drop took place outside."

This is only One of Many
WE ALSO MANUFACTURE AND SUPPLY
 FITTINGS, VALVES, PIPE AND EVERYTHING FOR HEATING
 Write for Catalogue and Prices

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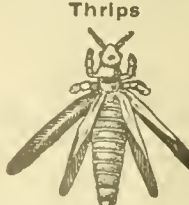
AUCTION TUESDAY, MARCH 14
 At 54 & 56 Dey St., at 11.30 A. M.

of ROSES, Dwarf and Standard; CLEMATIS, Named; Also
 RHODODENDRONS, HYDRANGEAS, Standard and Dwarf;
 CONIFERS, BULBS, ROOTS, Etc.

WM. ELLIOTT & SONS, New York

NICOTICIDE KILLS

Green Fly Thrips

Mr. J. A. Budlong, Chicago,
 March 11, 1904, says:
 "We have been using Nicoticide
 on our whole place now for some
 time and find it the most satisfac-
 tory fumigant we have ever used.
 We heat entirely by steam, and paint
 it on the pipes when hot. This
 application works well and is cer-
 tainly very effectual."

THE TOBACCO WAREHOUSING & TRADING CO., LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

"Absolutely Safe and Reliable. Ask Your Friends"

THERE IS NO ECONOMY
 in buying cheap tank or tower. Your bill for repairs will be heavy

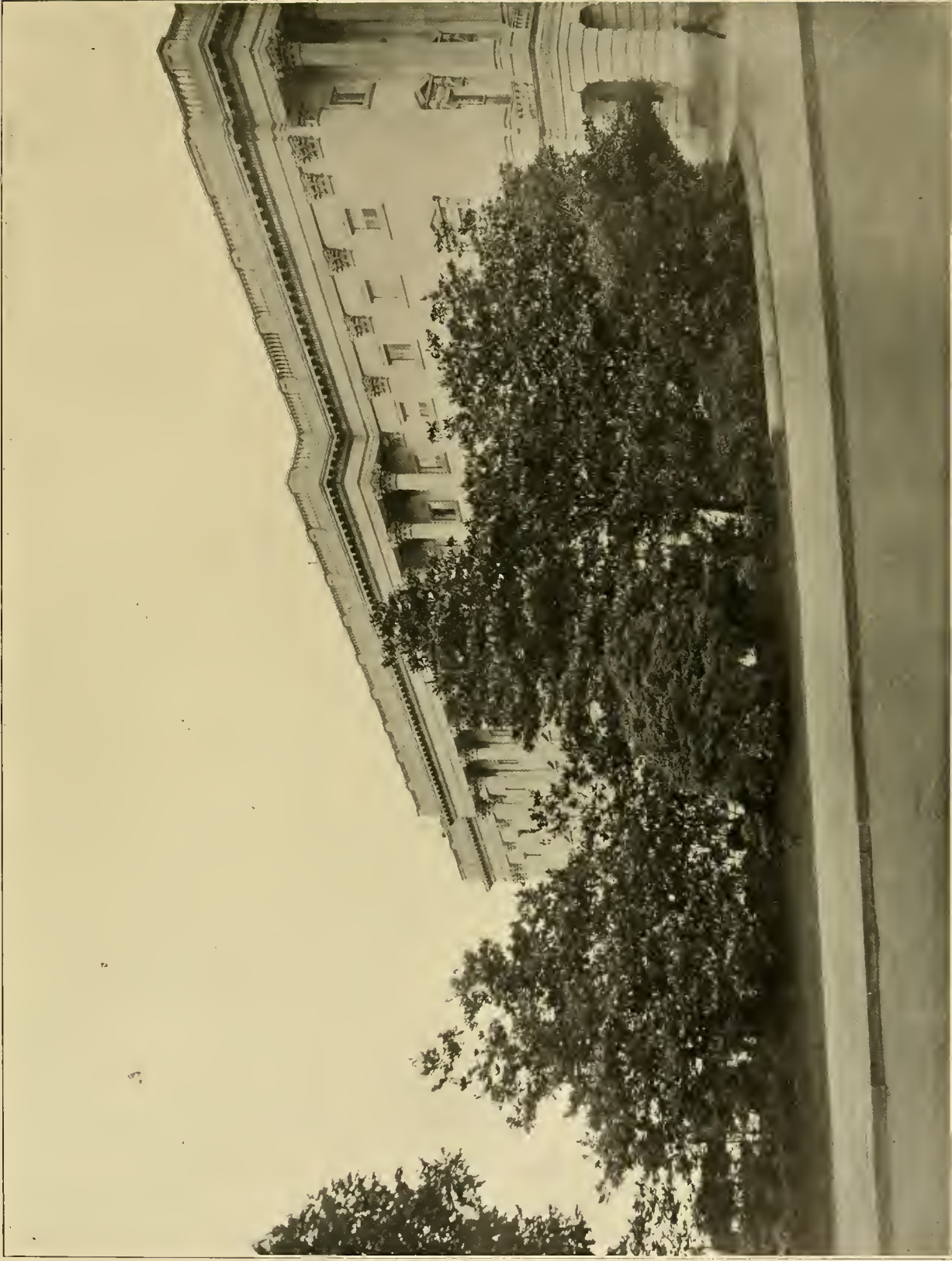
**A Caldwell Cypress Tank
 and A Caldwell Steel Tower**

last a lifetime. A coat of paint is all they need to make them as good as
 new, and it increases the efficiency of your water supply, having the
 tank high in air. Let us send you a catalogue and price list.

W. E. CALDWELL CO., Louisville, Ky.

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Our Gallery of Fine Specimens



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THICKET OF MAGNOLIA GRANDIFLORA

Growing close to the Capitol Buildings at Washington, D. C. No other broad-leaved Evergreen would have answered as well in such a position for such a grouping as these Magnolias do. The photograph was taken at the close of June, and the trees were then in flower. Some of the large, white blossoms have been caught by the camera, but one has to see them in their natural state to know how beautiful they are.

THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 11

NEW YORK, MARCH 18, 1905

One Dollar Per Year

CARNATIONS **STRONG ROOTED CUTTINGS**

READY FOR IMMEDIATE DELIVERY except where noted
WE OFFER FIRST-CLASS STOCK OF THE FINEST VARIETIES

VARIEGATED LAWSON This variety, which we are introducing this season we are sure will prove to be the very best variegated sort. Pure ivory white, with delicate carmine pencillings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, says that he knows that this variety will out-bloom the favorite Mrs. M. A. Patten three to one. It has the Lawson habit and stem, and is bound to give satisfaction. \$12.00 per 100; \$100.00 per 1000.

RED LAWSON A bright red sport of Lawson that is bound to be popular, and will be grown where Lawson is popular. \$10.00 per 100; \$75.00 per 1000.

CARDINAL Bright cardinal, or crimson-scarlet. Won first prize for best 100 scarlet, first prize for best 50 carnations, any color, first prize for best 50 scarlet seedlings, Chicago. \$12.00 per 100; \$100.00 per 1000.

FIANCEE (April delivery.) The Queen of pink carnations; in a class by itself. Magnificent flowers, strictly fancy in every respect. \$12.00 per 100; \$100.00 per 1000.

FRED. BURKI Recommended as an extra free-blooming white variety and a claimant for popular favor. \$12.00 per 100; \$100.00 per 1000.

WHITE LAWSON We consider this variety, which we introduced last season, the most profitable white carnation ever sent out. We think it will outdo any other white two to one. It has given great satisfaction. When the flowers are left on the plants until fully developed they are much larger than Mrs. Thos. W. Lawson. We believe this will occupy among white carnations the same place that Mrs. Thos. W. Lawson does among pink carnations. Remember that we are headquarters for it. Splendid stock, ready for immediate delivery. \$7.00 per 100; \$60.00 per 1000.

DAHEIM Dark crimson; grand stiff stem; Calyx never bursts. Free and abundant bloomer, developing very quickly. We consider this the best all-round crimson carnation. \$6.00 per 100; \$50.00 per 1000.

MRS. M. A. PATTEN This grand variegated carnation has given splendid satisfaction. \$6.00 per 100; \$50.00 per 1000.

ENCHANTRESS Freest blooming, bringing highest market prices. In great demand. \$4.00 per 100; \$30.00 per 1000.

MRS. THOS. W. LAWSON \$3.00 per 100; \$20.00 per 1000.

PROSPERITY A magnificent fancy carnation. \$3.00 per 100; \$20.00 per 1000.

We are now prepared to book orders for 1906 for
THE COMING SCARLET CARNATION
VICTORY
This is a real bread-and-butter variety. An early, free, and abundant bloomer, with good stem a magnificent keeper and shipper; flowers of the largest size, commanding the very highest price. This is going to be a money-maker.
Orders will be filled in rotation, as received. Delivery beginning December next.
\$12.00 per 100; \$100.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

GRAFTED STOCK NOW READY.



Kaiserin, } \$15.00 per 100
Carnot, } \$120.00 per 1000

OWN ROOT STOCK.

Kaiserin, } 2 1/4 in. pots, \$4.00
Carnot, } per 100;
Bride, } \$35.00
Bridesmaid, } per 1000.

AMERICAN BEAUTY, 2 1/4 in., \$6.00 per 100; \$50 per 1000.

W. H. ELLIOTT, Brighton, Mass.

BULBS For Spring Planting and Summer Flowering

BUY FROM HEADQUARTERS:

Per 100		1000	
GLADIOLUS—Selected Bulbs.			
American Hybrids, mixed.....	\$1 00	\$8 50	
Very fine mixed	90	7 50	
Second size mixed	65	5 00	
White and Light, best to be had....	1 50	13 50	
GLADIOLUS—Florists' Forcing Sorts.			
Augusta, 1st size	3 00	25 00	
" pure white, selected,	4 00	30 00	
May, Daybreak color.....	1 50	12 00	
Shakespeare, white and rose....	4 50	40 00	
BEGONIAS—Tuberous-rooted.			
Single, bulbs 1 1/4 in. and up, separate colors, white, red, pink, yellow and orange	2 00	18 50	
Double, large bulbs, 1 1/4 in. and upward.....			
Separate colors, or mixed.....	3 50	32 50	
CALADIUMS—(Elephant's Ear).			
Bulbs, 6 to 8 in. in circumference..	1 50	12 50	
" 8 " 12 "	3 00	25 00	
" 10 " 12 "	5 00	45 00	
" 12 in. and over, \$1.50 per doz.....		10 00	
Fancy-Leaved, named sorts, large bulbs, \$1.25 per doz.....	7 50	60 00	
Mixed sorts, large bulbs, 80c. per doz.....	6 00	55 00	
GLOXINIAS—Choice Stock.			
Named varieties, very large bulbs; separate colors: white, purple, red, blue, spotted and tigered. 3 50 30 00			
All colors mixed, 50c. per doz... 3 00 28 50			
DAHLIAS. Large Field Clumps			
Named kinds. Separate. Our selection. Ask for list of named sorts.			
Cactus, Show, Fancy and Pompon, \$5 50	\$45 00		
Double Mixed, all colors.....	5 00	40 00	
TUBEROSES.			
Excelsior Double Pearl, Doz.			
Mammoth bulbs, 6 to 8 in., \$0 30	2 00	15 00	
4 to 6 in. around.....	20	75 6 50	
1st size, 3 to 4 in.....	15	40 3 50	
LILIUM.			
Anatum, 8 to 9 in.....	75	4 25 38 00	
" 9 to 11 in.....	1 25	7 50 67 00	
Speciosum Rubrum, 8 to 9 in.....	1 00	6 00 50 00	
9 to 11 in.....	1 50	7 50 70 00	
Speciosum Album, 8 to 9 in.....	1 25	7 00 60 00	
9 to 11 in.....	2 00	12 00	
MONTBRETIAS, Named sorts			
	1 50	12 00	
OXALIS, in variety			
	25	1 75	
TIGRIDIAS, mixed			
	2 00	15 00	
TRITOMA PFITZERI			
	8 00	55 00	
ISMENE GRANDIFL'A			
	7 50	55 00	
MADEIRA VINES.			
Large roots			
	1 50	10 00	
IRIS, Japan or Kamperi.			
Grown from originally imported stock, 1/2 single, 1/2 double, named sorts.....			
	\$1.00	per doz. 7 00 65 00	
Mixed sorts, 1.00			
	5 00	45 00	
GERMAN IRIS, named			
	3 00	25 00	
Mixed			
	2 00	15 00	

CANNAS Large dormant pieces, with two to three eyes. For varieties and prices see our ad. in this issue, page 323.



CLUCAS & BODDINGTON CO., GREENWICH ST. N. Y. CITY

Corner Jane Street. Telephone, 1063 Chelsea.
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

Mention the Florists' Exchange when writing.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled high centered flower of fine symmetrical form, 3 inches in diameter, born on strong, stiff stems, 18 inches and upwards in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

ROOTED CUTTINGS		TWO-INCH POTTS	
ETHEL WARD.....	\$7.00 per 100	PROSPERITY	\$2.00 per 100
THE PRESIDENT.....	\$60.00 per 1000	ENCHANTRESS.....	\$4.00 per 100
WHITE LAWSON.....	\$4.00 per 100	GOLDEN EAGLE.....	\$5.00 per 100
ENCHANTRESS.....	\$30.00 per 1000	OCTOROON.....	\$50.00 per 1000
CHRISTMAS EVE.....	\$5.00 per 100	WHITE LAWSON.....	\$60.00 per 1000
GOLDEN EAGLE.....	\$40.00 per 1000	ETHEL WARD.....	\$7.00 per 100
LAWSON.....	\$3.00 per 100	CARDINAL.....	\$12.00 per 100
PROSPERITY.....	\$25.00 per 1000		\$100.00 per 1000
MACKINAS.....	\$2.00 per 100		
THE BELLE.....	\$15.00 per 1000		
JUDGE HINSDALE.....			
MRS. PATTEN.....	\$6.00 per 100		
NELSON FISHER.....	\$50.00 per 1000		
OCTOROON.....			
FLAMINGO.....			

50 of a kind at 100 rate; 250 of a kind at 1000 rate

COTTAGE GARDENS COMPANY (INC.), QUEENS, N. Y.
C. W. WARD, Manager

Mention the Florists' Exchange when writing.

IDES OF MARCH

SHOULD REMIND YOU OF SOME OF THESE ITEMS



SWEET PEAS

Mont Blanc.....	per lb.	45 cts.
Blanche Ferry, extra early	"	30 "
Countess of Radnor.....	"	30 "
Salopian.....	"	30 "

FRESH SEED OF 1904

ASTERS, all standard varieties,		
	per trade pkt., 25 cts.	
SMILAX.....	per oz., 35 ct.	
SALVIA Splendens Bonfire,		
	per trade pkt., 25 cts.	
MUSA ENSETE (just received)	per 100 seeds, 90 cts.	
DRACÆNA INDIVISA,	per oz., 30 cts.	

ROOTS

Lily of the Valley Clumps, 100.....	\$3.00
" Pips, case of 2500,	24.00

FERTILIZERS

PERUVIAN GUANO, fresh imported, 100.....	\$2.25
STERILIZED SHEEP MANURE, 100 lbs., \$1.25; ton.....	20.00
BAMBOO CANES, 5 to 8 ft., 1000 lots only.....	6.00

WM. ELLIOTT & SONS, NEW YORK

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Thorburn's Seeds

LILY OF THE VALLEY PIPS

LARGEST AND FINEST STOCK IN SPLENDID CONDITION
Per case of 3000 for - - - \$24.00
Two or more cases at \$7.50 per 1000

J. M. THORBURN & CO.
36 Cortlandt St. New York
Mention the Florists' Exchange when writing.

NEW Flower Seeds

ASTERS—Best German Grown

Queen of the Market.....	1/4 oz.	50	1.75
Victoria.....	1/4 oz.	50	1.75
Giant Victoria.....	1/4 oz.	60	2.00
Pæony Fl. Perfection.....	1/4 oz.	45	1.50
Simplex Branching, Home-Grown.....	1/4 oz.	20	60

Above in Separate Colors or Mixed.
Fresh Tobacco Stems.....\$1.50 per bale of 300 lbs.
W. C. BECKERT, Allegheny, Pa.
Mention the Florists' Exchange when writing.

F. W. O. SCHMITZ

PRINCE BAY, N. Y.
Wholesale Importer and Exporter of
Bulbs, Plants, Roots, Etc.
All Inquiries Cheerfully Answered
Mention the Florists' Exchange when writing.

COLD MEDAL STRAIN BEGONIAS

TUBEROUS ROOTED

Single White.....	Per doz.	100	\$0.35	\$2.25
" Yellow.....	"	100	.35	2.25
" Nankoen.....	"	100	.35	2.25
" Pink.....	"	100	.35	2.25
" Rose.....	"	100	.35	2.25
" Red.....	"	100	.35	2.25
" Dark Red.....	"	100	.35	2.25
" Salmon.....	"	100	.35	2.25
" Orange.....	"	100	.35	2.25
" Mixed.....	"	100	.30	2.00

STUMPP & WALTER CO., 50 Barclay St., New York

Branch Store 404 East 34th St., N. Y.

Mention the Florists' Exchange when writing.

We catalogue this season the earliest market potato ever produced in the United States.

GREGORY'S SEEDS

We catalogue a new drumhead cabbage which in the government test surpassed all varieties found in this Country and Europe. Catalogue free.

J. J. H. GREGORY & SON, Marblehead, Mass.

Mention the Florists' Exchange when writing.

200,000 AUGUSTA GLADIOLUS

IN DIFFERENT SIZES
1st size, 2 inch and up.
2d size, 1 1/2 inch, 1 1/4 inch.
3d size, 1 1/4 inch, 1 1/2 inch.

WHITE & LIGHT
1st size, 1 1/2 inch, 1 1/4 inch.
2d size, 1 1/4 inch, 1 1/2 inch.

Ask for prices on the different sizes; send stamps for sample.
Long Island is known all over the world for the production of the best Gladiolus Corms. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.
Address all orders to
ROWEHL & GRANZ, Hicksville, L. I., N. Y.
Mention the Florists' Exchange when writing.

CANNAS Dormant roots, 2, 3 and more eyes, Alba, Austria, Allemania, Burbank, Buttercup, P. Vaughan, Mme. Ormay, Black Prince, Bouvier, P. Marquand, Italia, Egandale, Robusta, Metallica, red leaf, \$2.00 per 100; \$15.00 per 1000; mixed, \$10.00 per 1000.
Shellroad Greenhouses, Grange P. O., Ballou, Md.
Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA
Blue List of Wholesale Prices mailed only to those who plant for profit.
Mention the Florists' Exchange when writing.

QUALITY SEEDS & BULBS PLANTS
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York.

Mention the Florists' Exchange when writing.

1904 CROP ASPARAGUS SEED

Plumosus Nanus.....	Per 100	55c.	Per 1000	\$3.50
" Robustus.....	"	85c.	"	7.50
" Sprengerii.....	"	15c.	"	1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.

MOORE & SIMON, Seed Growers
207 Market Street, PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

DAHLIAS

Mrs. Winters, the World's best white, strong tubers, \$10.00 per 100. Ingeborg, England, best scarlet cactus, \$3.00 per doz., \$20.00 per 100.
Many other novelties and standard varieties.
Wilmore's Dahlias have long been celebrated for prize winning.
Also Double Field-grown HOLLY-HOCKS, true to color, \$3.00 per 100. Send for catalogue.

W. W. WILMORE
Dahlia Specialist, Box 382, DENVER, COL.
Mention the Florists' Exchange when writing.

SILVER RIBBON GRASS

The New Hardy Perennial
The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS
ROCHESTER, N. Y.
Mention the Florists' Exchange when writing.

Seasonable Seeds for Florists' Use

VAUGHAN'S ASTERS

"THE CARLSON," The Early Late Variety

White, Rose, Pink, Lavender, Marquis-Pink, Violet-Blue, Daybreak, Pink and Mixed. Each, trade pkt., 20c.; any 3 for 50c.; or per 1/4 oz., 30c.; oz., \$1.00.

Branching or Simple. Best Late Variety.		
White.....	Trade pkt., 10c.	
Rose pink.....	1/4 oz., 20c.	
Lavender.....	1/4 oz., 8c.	
Red.....	Lb., \$8.50.	
Purple.....		
Light blue.....	Trade	
Daybreak pink.....	pkt., 4 oz. Oz.	
Mixed.....	lb., \$8.00; \$0.10 \$0.20 \$0.50	
Vaughan's Upright White		
Branching.....	.10	.20 .85
Vaughan's Upright Pink		
Branching.....	.10	.20 .65

NEW EVER-BLOOMING ASTER, "IDEAL"

Best Early Variety.
This new Aster produces, perhaps, more salable cut flowers to a plant than any other kind. The plants grow from 18 to 18 inches high and are in bloom from the beginning of August to the end of September almost uninterruptedly. In shape the flowers resemble the Victoria type, except that the petals are looser so as to give the flowers a very graceful appearance. White, light blue, dark blue, crimson; each, trade pkt., 15c.; 1/4 oz., 30c.; oz., \$1.00.

THE NEW CACTUS ASTER PATRICK HENRY

This is one of the best white Asters to cut. The plants grow about 18 inches high; the flowers are pure white, measure about 4 1/2 inches across and are double to the center. The petals are twisted or rather rolled like those of a Cactus Dahlia, hence its name. The plants bloom early, about with the Giant Comet Aster. Pkt., 25c.; 1/4 oz., \$1.00.



Vaughan's Aster "The Carlson."

Asparagus Plumosus Nanus

Northern Greenhouse-Grown Seed. Per 100 seeds, 50c.; 250 seeds, \$1.15; 1000 seeds, \$4.00. Price for larger lots on application.
Southern Outdoor-Grown Seed. Per 1000 seeds, \$3.00, 5000 seeds, \$12.50.
ASPARAGUS PLUMOSUS ROBUSTUS.
NEW. 100 seeds, \$1.00; 1000 seeds, \$9.00.

ASPARAGUS DECUMBENS. Fine for Cut. 100 seeds, 50c.; 1000 seeds, \$1.00.
COMORENSIS. Like Plumosus, but grows taller and quicker and is darker in color; sold for cut. 100 seeds, \$1.00; 1000 seeds, \$7.50.
TENUSSIMUS. 100 seeds, \$1.25; 250 seeds, \$2.65.
COBEA SCANDENS. Trade pkt., 10c.; oz., 40c.; lb., \$1.00.

SWEET PEAS. Oz. 1/4 lb. Lb.
Best White—Dorothy Eckford, \$0.10 \$0.25 \$0.75
Best Lavender—Lady Griseld Hamilton .05 .15 .40
Best Red—King Edward VII. .10 .25 .75
Best Pink—Lovely .05 .10 .30
Best Bright Blue—Mrs. Geo. Higginson, Jr. .35 .95 3.50
Best Bright Blue—Flora Norton .30 .80 3.00
Best Pink and White—Florence Fraser. .15 .45 1.75

RADISH. Scarlet Globe, Vaughan's Select stock. Oz., 10c.; 1/4 lb., 25c.; lb., 70c.
LETTUCE, Black Seeded Simpson, Vaughan's Select stock. Oz., 10c.; 1/4 lb., 25c.; lb., 80c.
Grand Rapids Foreign. Oz., 10c.; 1/4 lb., 30c.; lb., \$1.00.
EGG PLANT. N. Y. Improved. Pkt., 5c.; 1/4 oz., 15c.; oz., 25c.

TOMATO. Pkt. 1/4 oz. Oz.
Earlana..... \$0.10 \$0.25 \$0.40
Early Michigan..... .10 .15 .25
Cream City..... .10 .15 .25
Dwarf Champion..... .10 .15 .20
New Stone..... .10 .15 .25

CELERY. White Plume..... .10 .15 .25
Snow White..... .10 .15 .25

CABBAGE. Early All Heads. Oz., 20c.; 1/4 lb., 80c.

10 PER CENT SPECIAL CASH DISCOUNT. On orders over \$2.00 for Flower Seeds if the Cash is enclosed. This discount does not apply to Asparagus Seed. Cash discount on this 2 per cent.

VAUGHAN'S SEED STORE
84-86 Randolph Street, CHICAGO 14 Barclay Street, NEW YORK
Mention the Florists' Exchange when writing.

CHINESE :: HERBACEOUS PÆONIES
 SPLENDID ROOTS, WITH 2 TO 5 EYES

Double White.....	Per doz. \$1.50	Per 100 \$10.00	Double Red.....	Per doz. \$1.25	Per 100 \$8.00
Double Pink.....	1.25	8.00	Double Dark Red.....	1.25	8.00
			Double Mixed, all colors.....	1.00	6.00

SAGO PALM STEMS (Cycas Revoluta)

Just received an importation of splendid shapely stems, ranging in weight from 1 to 5 lbs. and 5 to 10 lbs. each. Per lb., 12c.; 10 lbs., \$1.00; 25 lbs., \$2.25; 100 lbs., \$9.00. Special quotation on case lots of 300 lbs.

EXCELSIOR DOUBLE PEARL TUBEROSES

Fine bulbs, 4 to 6 inches in circumference, 75c. per 100; \$7.00 per 1000; 5000 at \$5.50 per 1000. Prices of **Feru Balls, Lilium Auratum, Album, Rubrum** and other spring bulbs will be mailed on request. Get our New Wholesale List.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.
 Mention the Florists' Exchange when writing.

FERN BALLS

EXTRA GOOD.
 7x9 in., each, 30c.; dozen, \$3.00.
FERN DESIGNS IN ALL SORTS.
 Send for List.

Asparagus Plumosus Nanus Seed
 Greenhouse Grown

Germination the highest. To dispose of a large lot QUICKLY, as long as stock lasts. 100, 40c.; 500, \$1.75; 1000, \$3.00; 2000, \$5.50. Write for prices on larger lots.

Send for Our NEW Catalogue.
H. H. BERGER & CO. 47 BARCLAY ST. NEW YORK
 Mention the Florists' Exchange when writing.

For Early Forcing Try Our **GOLDEN SPUR**

They can be forced for Christmas. Write us.
HUBERT & CO., Mt. Vernon, N. Y.
 N. LE PAGE, Rep.
 Mention the Florists' Exchange when writing.

RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.

W. W. RAWSON & CO. Seedsmen,
 12 Faneuil Hall Square, BOSTON, MASS.
 Mention the Florists' Exchange when writing.

ROSES

100 varieties of Hardy Herbaceous Plants in 2 in. pots. Will be ready for delivery May 1st. 50,000 field-grown Phlox, in 30 varieties, \$8.00 per 100.

LARGE SHRUBS

HYDRANGEA P. G., WEIGELA, ALTHÆA, SPIRÆA Prices and varieties given in wholesale list.	HYDRANGEA P. G.—	Per 100
AMPELOPSIS VEITCHII— Per 100	3 to 4 ft., XX heavy.....	\$11.00
Field-grown, 2 years, No. 1.....	3 to 4 ft., very fine.....	8.00
X heavy.....	2 to 3 ft., good.....	8.00
	1 1/2 to 2 ft.....	5.00
	Last Summer's propagation.....	2.00

BOXWOOD.

3 to 4 inches.....	\$15.00 per 1000	5 to 8 inches.....	\$50.00 per 1000
4 to 5 inches.....	30.00	From 9 inches to 4 feet, quoted in wholesale list	

EVERGREENS, in quantities. HEMLOCKS, SPRUCE, PINES, RETINISPORAS, and many other varieties.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

CYCAS STEMS

FRESH IMPORTATION

We have just received a splendid lot of dormant stems weighing from 1/2 to 6 lbs. Just the size for making good salable plants. Prices are right.

12c. per lb.; \$9.00 per 100 lbs. Case of 300 lbs., \$25.00. 25 lbs. and over at 100 rate.

Write for our complete list of SEEDS, BULBS, FLORISTS' SUPPLIES, Etc., free for the asking.

HENRY F. MICHELL CO. 1018 MARKET STREET, PHILADELPHIA, PA.
 SEED GROWERS AND IMPORTERS

Lily of the Valley for Easter



We have in cold storage in **PERFECT CONDITION** for immediate forcing a limited quantity of selected high-grades **LILY OF THE VALLEY**. There is sure to be a demand and ready sale for this at Easter, especially in flower in pots. We offer as follows:

- Dreer's "Peerless" Pips** The very highest quality, in cases of 1000 each, \$12.00 per case.
- Dreer's "Berlin" Pips** A strictly high-grade, in cases of 1000 each, \$11.00 per case.
- Dreer's "Hamburg" Pips** A fine quality, in cases of 1000 each, \$10.00 per case. Also in cases of 2500 pips, \$24.00 per case.

NOTE—On account of the pips being frozen we cannot break cases. It takes from 21 to 25 days to force pips into flower.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.
 Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.

Catalogues free on application.

WEEBER & DON, Seed Merchants and Growers,
 114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

DANGER!!

In Cheap Seeds. Why Not Get the Best?

NEW ASTER KATE LOCK

Has been grown 48 inches high

Blooms from five to six inches in diameter with very high centers, stems from 38 to 43 inches, shown at largest exhibitions in Canada and taken everything before it; colors, Daybreak-white and mixed. \$2.00 per 1,000 seeds, not less than 1000 seeds sold (no agents). Do not send checks. Originator, **J. H. LOCK, 41 Manchester Av., Toronto, Ont.**

GLADIOLI

Groff's Hybrids, Silver Trophy strain	Per 100 \$2.00	Per 1000
Small Seedlings of same.....	75	
Groff's Hybrids, Crawford's stock	1 50	\$10 00
Small Seedlings of same.....	50	
Lemoine Hybrids, mixed named varieties	1 25	10 00
Lemoine Hybrid Seedlings	1 25	10 00
Childs's Seedlings	1 25	10 00

May, Augusta and Isaac Buchanan bloomers, \$1.50 per 100; \$2.00 per 100, first sizes.

Superb Mixture, composed of most of the hybrids familiar in commerce, 3/4 in. to largest sizes, \$1.25 per 100.

All stock f.o.b.; packing free.

My soil, climate and method is well adapted to the growing of sound, firm stock.

JOHN H. UMPLEBY

F. R. D. LAKE VIEW, N. Y.
 Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

An effort to have pumpkin seeds classified as drugs has been unsuccessful.

In a recent decision of the General Appraisers certain peas classified on the basis of 118 pounds to the case were held to be dutiable on the basis of 114.35 pounds to the case, as claimed by the importers.

NEW YORK.—Vaughan's Seed Store handed this week a carload each of onion sets and Kentucky blue grass.

THE CROSS FERTILIZATION OF PEAS.—The late Mr. Thomas Laxton, who may be said to have followed Thomas A. Knight and Dr. Laxton in the work of the scientific cross fertilization of culinary peas, has left on record a few conclusions he came to in reference to the work. He found that the results of experiments in crossing peas tended to show that the color of the immediate offspring, or second generation sometimes follows that of the seed-bearing parent, is sometimes intermediate between that and the pollen-bearing parent, and is sometimes distinct from both; and although at times the seed partakes of the color of the pollen parent, it was not ascertained by Mr. Laxton ever to follow the exact color of that of the pollen parent. In shape the seed was frequently found to assume an intermediate character, but also followed that of either parent. In the second generation, in a single pod, the result of a cross made between peas differing in shape and color, the seeds were sometimes all intermediate, sometimes they represented either or both parents in shape or color, and sometimes both colors and characters, with their intermediates, appeared. The results also seemed to show that the third generation, that is

CANNAS

Dormant Roots (Large Pieces, 2, 3 and More Eyes) Chas. Henderson, F. Vaughan, A. Bouvier, Mme. Crozy, Italia, Austria, Queen Charlotte, Paul Marquant, Flamingo, Shenandoah (dark foliage), Fair Persian, Morning Star, M. Washington } \$15.00 per 1000; \$2.00 per 100. Mixed All Colors } \$10.00 per 1000; \$1.50 per 100.

CLUCAS & BODDINGTON CO., 812-814 Greenwich St., NEW YORK

Mention the Florists' Exchange when writing.

CRIMSON RAMBLER 3500 No. 1 1/4 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$15.00 per 100.

HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.
 Mention the Florists' Exchange when writing.

to say, seed produced from the second generation or the immediate offspring of a cross, frequently varied from its parents in a limited manner—usually in one direction only, but the fourth generation was found to produce more numerous and wider variations, the seed often reverting partly to the color and character of its ancestors of the first generations, partly partaking of the various intermediate colors and characters, and partly sporting quite away from any of its ancestry. These sports appeared to become fixed and permanent in the next and succeeding generations; and the tendency to revert and sport thenceforth seems to become checked, if not absolutely stopped. These experiments further tended to show that the height of growth is singularly influenced by crossing. A cross between two dwarf peas commonly produced some dwarf and some tall; but, on the other hand, a cross made between two tall peas did not exhibit a tendency to any diminution in height. Further, no perceptible difference appeared to result from reversing the parents; the influence of the pollen of each parent at the climax of the fourth generation producing similar results. The moral of all this appears to be that in the case of seedling peas from cross-fertilized varieties no fixity of character can be assured until the fourth or fifth generation.—Argus, in Horticultural Advertiser.

popularize the growing of giant cinerarias in separate colors. The white, blue, white and blue, and red and white varieties are well worthy of cultivation; the pink (a beautiful shade of "old rose") may please lovers of tints, but will fail to satisfy the popular taste. The habit of all the above is faultless. As regards primulas, it is evident that the new, large-flowered, semi-double forms are driving the old-fashioned, small-flowered double varieties out of cultivation. The former can be had in all the principal colors, and the seed being more easily obtained, is not so costly, and in general of stronger growth and very reliable, the trade in it is bound to increase. At the same time, the old varieties are more useful for bouquets and buttonholes. In the stellata selection, a rich deep crimson variety which has passed into one of the leading retail houses for distribution next season is the only novelty worth noting; the semi-double forms are valueless. EUROPEAN SEEDS.

CATALOGUES RECEIVED.

G. BRUNNER'S SONS, Cincinnati, O.—Price List of Roses.

C. PETRICK, Ghent, Belgium.—Illustrated Catalogue of Decorative and Flowering Plants.

F. R. PIERSON COMPANY, Tarrytown, N. Y.—Select List of Flower and Vegetable Seeds, Grass Seeds, Insecticides, etc.

HENRY KRÖDER COMPANY, Passaic, N. J.—Illustrated Descriptive Catalogue of You-See-Ka Ventilating Apparatus.

POMONA NURSERIES, Palmyra, N. J.—Illustrated Catalogue of Small Fruits, Fruit and Nut Trees, Ornamental Shrubs, etc.

CHARLES BLACK, Hightstown, N. J.—Price List of Fruit Trees, Ornamentals, Small Fruits; also of The Ward Blackberry.

HOYT PLANT AND SEED COMPANY, St. Paul, Minn.—Catalogue of Hardy Northern-grown Plants, Seeds, Nursery Stock, etc. Illustrated.

L. BOEHMER & CO., Yokohama, Japan.—Wholesale Price List of Bulbs, Flowering Trees and Shrubs, Conifers, Dwarf Trees, Economic Plants, etc.

J. A. SIMMERS, Toronto, Ont.—Catalogue of Seeds, Plants, Bulbs, Supplies, etc. Illustrated; contains interesting lists of novelties and specialties.

PERRY'S HARDY PLANT FARM, Winchmore Hill, London, Eng.—Catalogue of Border and Rock Plants, Nymphaeas, Florists' Flowers, Fruits, etc.

THADDEUS N. YATES & CO., 7356 Germantown avenue, Philadelphia.—Trade List of Hardy Deciduous and Evergreen Trees, Shrubs, Vines, etc. Illustrated.

THE BLUE HILL NURSERIES (Julius Heurlin), South Braintree, Mass.—Illustrated Catalogue of Herbaceous Plants and Conifers; very complete and interesting lists.

BAY STATE NURSERIES (Windsor H. Wyman), North Abington, Mass.—Catalogue and Wholesale Trade List of Nursery Stock; also Wholesale Price List of Herbaceous Perennials.

SAMUEL C. MOON, Morrisville, Pa.—Catalogue of Ornamental Trees and Shrubs; beautifully and profusely illustrated. The Japanese barberry and Picea excelsa inversa have been selected as cover illustrations. An interesting and valuable catalogue.

FREDERICK ROEMER, Quädlinburg, Germany.—Novelties in Flower Seeds for 1905. These include Helianthus cucumerifolius, Lilliput (compactus procumbens), Begonia semperflorens, Fairy Queen, Double Hybrid Everblooming Holylocks, and a number of interesting new things in asters.

Notes from Holland.

The Winter of 1904-1905 was a remarkably soft one here, with only a few cold days. The reed covering has been lifted from the hyacinths, and they seem to be healthy and strong. The most early varieties, viz., La Neige, Maria Cornelia, Emilia, Norma, etc., are showing their buds. Tulips are as strong as the hyacinths, but it will be some time yet before we can see their buds. Crocus and snowdrops are in bloom now. Some varieties of narcissus are very premature; single and double Von Sion will be in bloom after a few sunny days. Just now big snowflakes are whirling through the air, but they will not do any harm, as the temperature is mild. We hope no frosty days and nights will come this Spring, because the bulbs are too far advanced to stand these, without being damaged.

Trade prospects are very favorable. It is strange, but very true, that countries having heretofore always soft winters, experienced a very severe one in 1904-1905. In Italy and the south of France outdoor cut flowers were frozen. American and Canadian florists should note that Europe will want considerably more bulbs from our country on account of the failure of the French outdoor cut flowers, and the good market for our products in 1905.

J. B.

European Notes.

Business with the wholesale houses has been a little easier during the past week, but a fair number of filling up orders indicate that trade generally is in full swing. The drought last year made the growing of peas for the markets unremunerative and, as a consequence, the demand for these is much lighter; on the other hand, beans, especially the pole varieties, simply coined money for the lucky growers, and today everybody is anxious to be in the swim next season. But bad crops and short supplies render this a costly and difficult undertaking.

The continuance of fine, bright weather is bringing primulas and cinerarias on with great rapidity. Sutton & Sons are making a great effort to

Calendar Received.

From Messrs. Holton & Hunkel, Milwaukee, Wis., a very pretty calendar.

ROSES! CLEMATIS!

To close out our surplus on these items we are making low quotations on

Strong 2 Year Dormant Plants—Crimson Rambler, White Rambler, Pink Rambler Yellow Rambler, Mme. G. Lulzet, Magna Charta, Frau Karl Druschki.

Strong 2 Years—Clematis Jackmanni, Henryll, Mme. E. Andre, Ramona Ampelopsis Veitchli. Write for prices.

Bride, Perle, Cochet Pink and White, Golden Gate and many others, from 5 in. pots, at \$10.00 per 100.

W. & T. SMITH COMPANY, Geneva, N. Y.
 Mention the Florists' Exchange when writing.

YOU MISS

YOUR OPPORTUNITY TO SECURE YOUR SHARE OF A PROFITABLE TRADE WHEN YOU FAIL TO ADVERTISE IN OUR SPECIAL SPRING EDITION.

DAHLIAS

Over 200 Distinct Varieties

New and up-to-date in all classifications. List and prices on application.

PALISADES NURSERIES, Sparkill, N. Y.
 Mention the Florists' Exchange when writing.

Summer Flowering BULBS

Ismene Grandiflora.....	100	1000
Madeira Vines	\$6.00	\$50.00
Spotted Callas	1.00	8.00
Tritoma Pfitzeri	3.00	25.00
Gladioli, mixed, 1 1/4 in. diam.,.....	7.00	60.00
	.60	5.00

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC.

Eight per cent. discount for cash. Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.
 Mention the Florists' Exchange when writing.

TREES & SHRUBS WANTED

By the 100 of Each

AMELANCHIER ALNIFOLIA, 3 to 4 ft.
 CHIONANTHUS VIRGINICA, 4 to 5 ft.
 VIBURNUM LENTAGO, 3 to 4 ft.
 VIBURNUM OPULUS; Syn. OXYCOCUS, 3 1/2 to 4 ft.
 RHODOTYPUS KERRIOIDES, 2 to 3 ft.
 HIBISCUS, 3 to 4 ft. (Single flowering).
 SYRINGA LIQUSTRINA, 4 to 5 ft.
 STAPHYLEA COLCHICA, 4 to 5 ft.
 LINDERA BENZOIN, 3 1/2 to 4 ft.
 CRATÆGUS CRUS-GALLI, 4 to 5 ft.
 PINUS AUSTRIACA, 4 1/2 to 5 ft.
 PINUS MUGHO, 2 1/2 ft. high.
 PINUS SYLVESTRIS, 4 to 5 ft.
 TAXUS BACCATA, 3 to 3 1/2 ft.
 NORWAY MAPLES, 4 to 5 in. cal.
 BETULA ALBA, 2 in. cal.
 JUGLANS NIORA, 3 in. cal.
 LIQUIDAMBAR STYRACIFLUA, 3 in. cal.
 CASTANEA AMERICANA, 3 in. cal.

Send particulars and cash quotation to

FRED'K W. KELSEY
 150 Broadway, New York
 Mention the Florists' Exchange when writing.

PEACOCK'S DAHLIAS

Send for Beautifully Illustrated Descriptive Catalogue and Trade List for 1905, now ready.

L. K. PEACOCK, Inc., Atco, N. J.
 Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE **GRAND PRIZE** For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Offer's Hybrids and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR COWEE, Gladioli Specialist, Meadowvale Farm, Berlin, New York**
 Mention the Florists' Exchange when writing.

LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an unintroducted seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.
WEST GROVE, PA.
 Mention the Florists' Exchange when writing.



ASPARAGUS

Plumosus Nanus Seed.

(ASPARAGUS FERN). We are headquarters.

GREENHOUSE-GROWN.

New Crop Seed

GUARANTEED OVER 80 PER CENT, GERMINATION.

100 seeds for	\$0.50	2,000 seeds for.....	\$6.50
500 seeds for	2.00	5,000 seeds for.....	15.00
1,000 seeds for	3.50	10,000 seeds for.....	25.00

PALISADES NURSERIES, Sparkill, N. Y.

Mention the Florists' Exchange when writing.

PAEONIAS Large Roots 3 to 5 Eyes

We have a few Paeonias that we wish to sell his Spring and have reduced prices much below last Fall's rates.

\$10 00 per 100; \$90 00 per 1000
 Camille Callot, rose, changing to white;
 Jomte de Manteuil, dark rose; Delacheil,
 purple-crimson; Dortens Coors, bright pink;
 Duc de Wellington, white and sulphur; Fran-
 cois Ortelat, dark crimson; Grandiflora
 Rosea, bright rose; La Sublime, rich crimson;
 Mme. Lebon, cherry red; Rosa Superba,
 deep rose. These prices are for good general
 assortments only.

LACKSON & PERKINS CO., Newark, New York
Mention the Florists' Exchange when writing.

WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

GLADIOLI BULBS

SHAKESPEARE, sizes 1 and 2; E. SCRIBE, 1 and 2; No. 1900, 2, 3 and 4; AUGUSTA, 2, 3 and 4, also small Augusta about 1/2 to 3/4 in., at \$3.50; and 6-16 to 1/2 at \$5.00 per 1000. Cash with order.

John Fay Kennell, R.F.D., CHILI, MONROE CO., N.Y.
Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus SEED

250,000 present season growth \$2.25 per 1000. In quantity to suit. March delivery. Early orders requested.

REES & COMPERE, R.F.D., Long Beach, Cal.
Mention the Florists' Exchange when writing.

GLADIOLI, Etc.

Per 100	Per 1000
Gladioli Groff's..... \$1.25	Eriochthys Revenne \$2.00
mixed..... 1.00	Gaillardia, Grand... 2.00
Spotted Leaf Calla... 2.00	Shasta Daisy..... 2.00
Myrtle, Hardy..... 1.00	Hardy Pinks, Field... 3.00
Sweet William cl'ps 2.00	Stokesia Cyanæa... 3.00
Madras Vine Tubers, 30c., 50c., 75c., \$1.00.	

S. J. CALLOWAY, Eaton, Ohio
Mention the Florists' Exchange when writing.

When in Europe come and see us and inspect our extensive Nurseries. Gouda is our railroad depot
Hardy, Fancy Ornamental Nursery Stock
J. BLAAUW & CO.

BOSKOOP, HOLLAND
Catalogue free on demand. Headquarters for the famous Colorado Blue Spruces—purest, bluest strain
Mention the Florists' Exchange when writing.

KOSTER & CO.

Hollandia BOSKOOP, HOLLAND
Nurseries
Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.
RHODODENDRONS, H. P. ROSES, Etc.
Catalogue free on demand.

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PEONIES CHOICE WHITE

Strong divided plants, 3 to 5 eyes in quantity.
Festiva Maxima..... \$0.35
Queen Victoria..... \$0.12
Golden Harvest..... \$0.20

Order at once for Spring delivery.
PETERSON NURSERY,
505 W. Peterson Ave. Chicago, Ill.
Mention the Florists' Exchange when writing.

WHAT DO YOU WANT?

2000 Hydrangea Paniculata Grandiflora, 2 ft. 8c., 1 ft. 5c. 2000 Hydrangea Otaksa, for 4 in., 8c.; 3 in., 4c. 2000 Spiraea Anthony Waterer, 2 years, strong, bushy, 6c.; medium, 4c. 1000 Clematis Paniculata, 3 years, heavy, 10c. Clematis Jackmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Vetchii, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyanæa, field-grown, \$3.00 per 100. 5000 best shrubs and vines, dahlias, etc. Send for list.

BENJ. CONNELL West Grove, Pa.
Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.
THE WM. H. MOON CO., Morrisville, Pa.
Mention the Florists' Exchange when writing.

RHODODENDRONS

Maximum, per 100, 6 in., \$5.00; 12 in., \$10.00; 20 in., \$15.00; 30 in., \$20.00; 40 in., \$25.00; 60 in., \$40.00; one or more stalks, with grub, 50c. to \$1.00 each. Choice plants. Cash with first order.
Send for price list of Trees, Plants, etc.

J. N. PRITCHARD, ELK PARK, N.C.
Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET

2 to 3 ft., 3 to 5 canes.....	Per 1000	\$18 00
18 to 24 in., 2 to 4 canes.....		12 00
15 to 20 in., 1 to 2 canes.....		8 00
DEUTZIA, PRIDE OF ROCHESTER		
Strong clumps.....		60 00
2 to 3 ft.....		30 00
Transplanting size.....		10 00

W. B. COLE, - PAINESVILLE, OHIO
Mention the Florists' Exchange when writing.

THE BEST ADDRESS FOR DUTCH BULBS AND PLANTS

K. VAN BOURCONDIËN & SONS
Wholesale Bulb Growers
HILLEGOM, HOLLAND
Until May write to
K. H. VAN BOURCONDIËN
Care Maltus & Ware,
136 Water St., - New York
Mention the Florists' Exchange when writing.

SURPLUS STOCK

3000 Heavy Niagara, and 500 Diamond Grapes, \$17.00 per 1000. 500 Extra Mince. Planter Roses, 2 yrs., \$5.00 per 100. A few pounds bronze foliage Anna Seed, 50c. per lb. A few pounds Stokesia Seed, \$1.00 per oz. \$12.00 per lb. 5000 nice plants, Sarracenia, Drummondii and Peitainia. Special prices on these and other hardy native plants. Send us an order at once. 5 per cent. discount if cash accompanies the order.

SOUTHERN FLORAL NURSERY CO.
FRUITDALE, ALA.
Mention the Florists' Exchange when writing.

FRANK ELMER CONINE, The Reliable Nurseryman and Landscape Gardener, STRATFORD, CONN. ESTABLISHED 10 YEARS.

All varieties and sizes of Shade and Deciduous and Evergreen Ornamental Trees, Shrubs, Roses, Climbing Roses, Vines, Japanese Maples, Herbaceous Plants, etc. Everything to the Horticultural line. Plants large enough to produce immediate effect. Personal attention given to my business. Packing grounds open April 1 to June 1. You have tried other Nurserymen and often been disappointed in the stock. Will you continue? Give us a trial if you are particular. No disappointed customers on our books. No apologies necessary.
Mention the Florists' Exchange when writing.

Now in City Limits

NURSERY STOCK

Will be Sold Cheap to Clear Ground

2,000 Elms, good heads and straight, 8 to 10 ft.
2,000 Norway Maples, 12 to 15 feet.
500 Horse Chestnut, fine tops, 8 to 10 feet.
4,000 Shrubbery, in variety, 3-4 yrs., bushy.
300 Norway Spruce, bushy, fine trees, 8 to 10 feet.
100,000 California Privet, 2 and 3 years, bushy, 2 1/2 to 3 1/2 feet.
Price on application. Correspondence solicited.

CARLMAN RIBSAM, 51 Wall Street, Trenton, N. J.
Mention the Florists' Exchange when writing.

Large Shrubs

VIBURNUM TOMENTOSUM, fine bushes, \$25.00 per 100.
DEUTZIA and HALEZIA, 6 to 8 ft., \$20.00 per 100.
CRIMSON BARK DOGWOOD, 4 to 5 ft., \$16.00 per 100.
TREE ALTHEAS, 7 to 9 ft., \$6.00 per dozen.
Large Assortment of Trees and Shrubs.

SAMUEL C. MOON, MORRISVILLE, PA.

Mention the Florists' Exchange when writing.

LARGE TREES

Maple, Norway, fine Straight Stock, 2-2 1/2, 2 1/2-3, 3-4 in. diameter. Maple, Silver, 2-2 1/2, 2 1/2-3, 3-4 in. diameter. Maple, Negundo, 2-2 1/2. Linden, American, 2 1/2-3, 3-4 in. diameter. Argentea, 1 1/2-2, 2-2 1/2, 2 1/2-3. European, 1 1/2-2, 2-2 1/2. Poplar, Carolina 1 1/2-2, 2-2 1/2, 2 1/2-3. Lombardy, 1 1/2-2, 2-2 1/2. Bolleana, 1 1/2-2, 2-2 1/2.
Besides the above we have large stock of Plane, Ash, Birch, Willows in strong stock.
Evergreens in large sizes and great variety.
Flowering Shrubs in large variety.
California Privet, 2 years, 2-3 ft., very low in price. The above stock is all in very fine condition and will please. Get our prices.

OAK PARK NURSERIES, M. F. TIGER, Proprietor, Telephone Call, 23 F. PATCHOUE, L. I.
Mention the Florists' Exchange when writing.

Vegetable Plants

Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.
Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.
Write for price list.

J. E. HUTTON & SON CONYNGHAM, PA.

Mention the Florists' Exchange when writing.

HELP! HELP! HELP!

I have a surplus of 200,000 CALIFORNIA PRIVET, 2 and 3 years, in all sizes, and I want you to help me dispose of it. This Privet is well grown, well graded, strong and stocky, and I am sure it will please you. It will pay you to let me quote you before you buy.

C. A. BENNETT, ROBBINSVILLE, N. J.
Mention the Florists' Exchange when writing.

Ornamental Trees and Shrubs

The Ornamental Department of our business has been a specialty with us since the foundation of these Nurseries, fifty-two years ago. We have large blocks of Oriental Planes, Sugar and Weir's Maple, Pin and Red Oaks, Lombardy Poplars and Weeping Willows, also fine specimen Hemlock Spruce from 2 to 5 feet.
Fifty Acres of Shrubs of the best kinds for ornamental effect. Fifty varieties of Lilacs, eighteen of Altheas, seventeen of Spiræas, nine of Deutzias and a large stock Viburnum tomentosum. Trade Lists for Spring, 1906, mailed to applicants.

HOOPES BRO. & THOMAS, Maple Ave. Nurseries, West Chester, Penna.
Mention the Florists' Exchange when writing.

Bloodgood Nurseries, Inc.

Established 1790
Successors to KEENE & FOULK, Flushing, N. Y.

Norway Maples, 1 1/2 to 3 in. diameter. Silver Maples, 1 to 2 1/2 in. diameter.
Sugar Maples, 1 to 2 1/2 in. diameter. American Elms, 1 1/2 to 3 1/2 in. diameter.
Salsburia adiantifolia, 6-12 in., and a large stock of assorted shrubs. Rhododendron Hybrids.
Rhododendron Maximum, Kalmia latifolia, fine collected plants in carload lots.
Hybrid Perpetual Roses. Deciduous Shrubs. California Privet, 1 to 4 1/2 ft.

REASONABLE PRICES
Mention the Florists' Exchange when writing.

PRIVET FOR SALE

Three hundred and fifty thousand (350,000) plants, all sizes, and of 2, 3 and 4 years old. All cut back, and now forked with three or four stems. Suitable for quickly making a thick hedge. We offer in four sizes, 2, 3, 4 and 5 feet high. Prices cut in half. F.O.B. Bristol, Pa.; terms 30 days from date of shipment. Do you want any—what size and how many? Orders now booked for shipment in March and April.

D. LANDRETH SEED COMPANY, Bristol, Pennsylvania
Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

GRADING OF NURSERY STOCK.—The subject of a uniform system of grading nursery stock is a matter which should be looked into, says L. A. Berckmans in the National Nurseryman, and the nurserymen from the different sections of the country should practice more uniformity of grade. At the next meeting of the American Association of Nurserymen we think it would be well that a committee should be appointed to thoroughly investigate this matter and establish a schedule of rules for grading different classes of nursery stock. If this could be accomplished it would save an immense amount of dissatisfaction and sometimes litigation between the nurserymen and the purchaser. Some nurserymen caliper at the ground line, others at the junction of bud with stock, and others

the caliper governs, but it is customary to give the approximate heights, measured from the ground."

Pruning Trees.

When large fruit and other trees are headed back closely, as they often are from necessity, there will form a crop of many small shoots to repair the loss of tops. These young shoots are nearly always too numerous, and need attention at once, just as a young tree does, the character of which is being formed. There is no use in leaving the whole crop. One will, in time, starve to death the others, and better therefore to remove the superfluous number at once, that the support they would take be given to those left. If a half dozen shoots spring out to take the place of one large one sawed off, very likely if two are left it will be sufficient.

Old trees are often cut back unnecessarily severe. Fruit trees, especially, if headed back entirely at one time lose several years, while the young shoots are growing to a bearing size. It is often practicable to prune in such a way that new growth is assured, while all the bearing, older branches, have not been sacrificed.

With shade trees, as well as with fruit trees, it is often possible to prune without a too great cutting away of the branches at one time. Sometimes storms break a limb or two, and then the whole tree is cut back to conform to the remaining length of the broken

planted stock which is reset is the better for such pruning, unless it is very much desired that the branches should be from the ground up. Even in this case the side branches should be shortened in to within an inch or two of the main stem. But do not cut off the main shoot. Oaks do not like heading back, and when so treated, they are sometimes a long while in making a new leader.

It is a great help toward success to set out oaks early. In fact, the oak should be one of the first things planted. Where Winters are not severe, it is a good plan to set them out in Autumn, and in the Southern States Fall planting is recommended. It seems that oaks do not like disturbance after the sap becomes active. It must be but a small and a well rooted tree that will be successful if transplanted after buds have swelled preparatory to making leaf.

Nurserymen find two oaks, the bicolor and the palustris, to transplant much better than others, and perhaps it is this that has helped along their popularity. Both make more small roots than do other sorts. The bicolor, or meadow white oak, as it is called, makes a massive tree. The palustris, pin oak, is admired for its pyramidal habit, pretty foliage and half drooping lower limbs.

Environment Changing Character of Trees.

Mr. Burnet Landreth's observations on the change in character of the lima bean from a climbing vine to one not so free to climb when grown without poles, accords with instances known to gardeners and others interested in plant life. Plants accommodate themselves to their surroundings, without doubt. Among the instances that come to mind as I write, there is that of the wistaria. As a vine, how it does grow and what a length of rope-like shoots it makes in a year! Treat it as a standard and the lengths of 25 feet or more it made as a vine are represented by some of from three to four feet only. The poison vine is another. As a vine, it ascends very tall trees. When it has no support, or but a stump of a tree to which to attach itself, it is but a weak shrub. In former times, before the changing of plants to suit environments was well understood, the changed appearance of this poison vine gave rise to the belief that the two were distinct species, and to the climber was given the name of *Rhus radicans* and to the shrub form, *R. toxicodendron*. Place the latter near some support to-day, and it will climb fast enough.

I have before called attention to the fact that of trees that grow both North and South, say the willow oak, for it is wild here at Philadelphia, seedlings from seed obtained far south continue growing much later in Autumn than our own, and for this reason are less hardy, the wood not ripening well. And this is true of all seedlings from seed from the South. The trees of the South have not to hasten to ripen their wood as ours have, and the character of later growing is partly fixed. I say partly, because after the seedlings have grown North a few years they lose their late growing habit and fall in with Northern ways.

I remember John Fraser, of Huntsville, Ala., telling me some years ago of a difference he had found in the pushing into growth of some plum stocks of a certain kind, one lot grown North, the other South. I think it was the Southern grown ones which he said pushed growth earlier than the others.

Quite recently Mr. Saunders and others, who have been experimenting with trees and shrubs in the Northwest Provinces of Canada, have found that seeds from trees as far north as possible are more likely to thrive than those from the same species farther south, and this many others have found to be true.

JOSEPH MEEHAN.

Azalea Amoena.

Whether planted as isolated specimens or arranged in groups, this favorite azalea never fails to excite admiration. The illustration represents this plant serving the purpose of an ornamental hedge, and right well does it adapt itself to such. Usually, one is accustomed to see single specimen plants or small groups, but a hedge of such, from 200 to 250 feet long, is rather uncommon. Around the middle of May *Azalea amoena* comes into flower, and at that time this hedge is a sight well worth seeing. When one pauses to consider that individual plants produce flowers in such great numbers as to envelop the whole plant in a claret colored cloak, some idea can be formed of the dazzling beauty of this hedge. The hedge illustrated grows upon the estate of Dosoris, Glen Cove, L. I. *Azalea amoena* proves itself perfectly hardy, having survived the rigors of the past Winter. The leaves are small and evergreen. This azalea should certainly be more extensively used in landscape work and results from it will not prove disappointing.

JOHN F. JOHNSTON.

Glen Cove, L. I.

NURSERYMEN

Will find it a profitable business proposition to place their advertising with THE FLORISTS' EXCHANGE. We issue a Spring Edition, next week, March 25.



PART OF 200-FOOT HEDGE OF AZALEA AMOENA AT DOSORIS, L. I., IN FLOWER MAY 18, 1904

Photo by John F. Johnston

at various other places. We think the caliper should be taken about four inches above the junction of bud with stock. This would be well above the swelling and would be fair for all parties. Grafted stock, of course, should be calipered at the ground line. Again, some nurserymen will bud certain trees, such as pecans, chestnuts, etc., from one to three feet above the ground, but in quoting this stock give the height from the ground and omit to state that the trees are top worked at so many feet (giving distance from the ground), and also fail to state the growth of the bud or graft. We think it would be well to bring this matter before the nurserymen previous to the meeting, as it is high time that the matter of grading be carefully considered, and, if possible, permanently settled.

Another important item suggests itself to me. It is well enough to apply the sixteenths of an inch rule to seedlings and small stock for grafting or lining out, but when it comes to the regular grades of trees I think the sixteenths of an inch should be eliminated, and nothing but the eighths of an inch used.

In the same periodical, W. F. Helkes, who introduced the caliper in grading trees 45 years ago, says: "It has been my practice, and I believe it has been pretty generally accepted that the proper place to caliper a tree in case of a bud inserted near the ground, is three inches above the point of union; in the case of a root grafted tree, it should be calipered three inches above the ground. Seedlings sold as such for grafting, for transplanting or for budding should be calipered at the collar; rooted cuttings at the ground. In the case of top worked trees the caliper should be used three inches above the ground and a description of the top be given. In describing a grade by caliper,

ones, perhaps rendering the whole tree less valuable than it was, when a little thought would have made it of good appearance without such a general cutting back.

Much of successful pruning depends on the knowledge of the pruner. Good taste must be his property and a good knowledge of the peculiarities of growth of the trees he prunes. When branches are but twigs, they are given but little attention; but when of larger size they make much work, which would have been saved had they been cut away when a pocket knife would have done it.

In nurseries not many trees remain until of a large size, so that the art of pruning is not so much of a necessity as it is to the professional pruners found near all large cities. But even moderately sized trees can be greatly increased in value when of good appearance, and now is the time when some profitable work in that line could be done.

Transplanting Oaks.

To say the oak is a difficult tree to transplant is but telling what every one almost knows already. Small sizes may be set out with but little loss, having in mind seedlings and transplanted stock of not more than three to four feet high. It is often the case that nurserymen let beds of seedlings go until the plants are three to four feet high. While the work would be safer with plants of less size, these three to four foot ones will do very well, if dug carefully and well pruned and set out early. Seedlings of this size will have but few side shoots, but those they have should be cut away entirely, and even trans-

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Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

	Per doz.	Per 100		Per doz.	Per 100		Per doz.	Per 100
Acanthus Mollis, 4-in. pots.....	\$1.25	\$10.00	Campanula Carpatica, Blue, 4-in. pots.....	.75	6.00	*Helianthus Davidiana.....	.75	6.00
Latifolius, 4-in. pots.....	1.25	10.00	White, 4-in. pots.....	.75	6.00	*Mollis.....	.75	6.00
Achillea Filipendulina, 4-in. pots.....	.75	6.00	Grandis, 3-in. pots.....	1.00	8.00	*Multiflorus fl. pl.....	.75	6.00
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Napulus, Strong.....	1.25	10.00	*Gigantea Meerheimi, New; 3-in. pots.....	1.25	10.00	*Soleil d'Or.....	.75	6.00
Adonis Pyrenaica, Strong.....	1.25	10.00	Pyramidalis, Strong 1-year-old plants.....	1.00	8.00	*Tomentosum.....	.75	6.00
Vernalis, Strong.....	1.00	8.00	Pucclata, 4-in. pots.....	.75	6.00	*Wolley Dodd.....	1.00	8.00
Agrostemma Coronaria, 4-in. pots.....	.75	6.00	Rapunculoides, 4-in. pots.....	.75	6.00	*Heliosais Picheriana, 4-in. pots.....	.75	6.00
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*Anemone Liliastrium, Strong.....	.75	6.00	Calumers lucida, 3-in. pots.....	.75	6.00	*Scaber Major, 4-in. pots.....	1.00	8.00
*Lilligo, Strong.....	.75	5.00	*Caryopteris Mastacanthus, 3-in. pots.....	.75	6.00	Hemerocallis Dumortieri, 4-in. pots.....	.75	6.00
Ajuga Reptans Variegata, 3 in. pots.....	1.25	10.00	Casua Marylandica, Strong, 1-year old.....	.75	6.00	Fulva, 4-in. pots.....	.75	6.00
Genevensis, 3-in. pots.....	1.00	8.00	Cerastium Tomentosum, 3-in. pots.....	.75	6.00	Flava, 4-in. pots.....	.75	6.00
*Alyssum Saxatile Compacta, 3-in. pots.....	.75	6.00	*Ceanothus Gloire de Plantiers, 4-in. pots.....	2.50	20.00	Kwanso fl. pl. 5-in. pots.....	1.00	8.00
*Flora Plena, 4-in. pots.....	2.50	18.00	*Centaura Montana Alba, 4-in. pots.....	1.25	10.00	Midlandford, 4-in. pots.....	1.00	8.00
*Anemone Japonica, A fine stock of the usual winter killed sort frequently sent out, but vigorous growing plants from 3-in. pots.....	.75	6.00	*Cephalaria Alpina, 4-in. pots.....	1.00	8.00	Thunbergi, 4-in. pots.....	1.00	8.00
*Anemone Japonica, Semi-double, rosy carmine.....	.75	6.00	*Tartaria, 4-in. pots.....	1.00	8.00	Aurantiaca, 5-in. pots.....	3.50	28.00
*Alba, Large, pure white.....	.75	6.00	Chelone Lyonii, 4-in. pots.....	1.00	8.00	Major, 5-in. pots.....	3.50	28.00
*Elegantissima, New semi-double satiny rose.....	1.25	10.00	Obliqua Alba, 4-in. pots.....	2.00	15.00	Florham, 5-in. pots.....	3.50	28.00
*Lady Ardilaun, Large single white.....	.75	6.00	*Chrysanthemum Maximum Triumph, 4-in. pots.....	.75	6.00	Heeperia Matronalis, 4-in. pots.....	.75	6.00
*Prince Henry, New double, deep pink.....	2.00	15.00	*Burbank's Shasta Daisy, 2 1/2-in. pots.....	.60	4.00	Heuchera Alba, 3-in. pots.....	1.00	8.00
Queen Charlotte, Semi-double.....	.75	6.00	*Cimicifuga Acernum, Strong roots.....	2.00	15.00	Sanguinea, 3-in. pots.....	1.00	8.00
*Alba France plink, the finest of all.....	.75	6.00	*Dahurica, Strong roots.....	2.00	15.00	Ribicosa Militaris, Strong, two-year.....	.75	6.00
*Rosea Superba, Silvery rose; or white.....	1.00	8.00	*Racemosa, Strong roots.....	1.00	8.00	Moschutos, Strong, two-year.....	.75	6.00
*Whirlwind, Grand double white.....	.75	6.00	*Simplex, Strong roots.....	3.50	25.00	Crimson Eye, Strong, two-year.....	.75	6.00
Anemone Pennsylvania, 3-in. pots.....	.75	6.00	*Clematis Davidiana, Strong, one-year.....	.75	6.00	*Hollyhocks, Double, one-year-old, to color.....	1.25	10.00
Burkiana, 3-in. pots.....	.75	6.00	*Recta, Strong, two-year.....	1.50	12.00	*Double, one-year-old, mixture.....	1.00	8.00
Aquilegia Blanda, Caryophyllid, Chrysantha, Chrysantha Alba, Californian Hybrid, Grandulosa Major, Hayloggenesis, Nivea Grandiflora, Skinneri and Vulgaris Flore Plena, Strong; 4-in. pots.....	.75	6.00	*Integrifolia, Strong, two-year.....	1.25	10.00	Single, one-year-old, mixture.....	1.00	8.00
Andromeda, 4-in. pots.....	.75	6.00	*Coreopsis Leucolata Grandiflora, Strong, Heavy, 4-in. pots.....	.75	6.00	Allegheny, one-year-old, mixture.....	1.00	8.00
*Arabis Alpina, 3-in. pots.....	.75	6.00	*Delphinium Belladonna, Very rare, strong plants.....	2.50	20.00	*Hypericum Mossaricum, 3-in. pots.....	1.00	8.00
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Artemisia Abrotanum, 4-in. pots.....	.75	6.00	*Sulphureum, Strong plants.....	2.00	15.00	Incarvillea Delavayi, Heavy, 3-year.....	1.50	12.00
*Stellaria, 3-in. pots.....	.75	6.00	*Dianthus Barbatua (Sweet William), Large clumps.....	.75	6.00	Inula Britannica, 4-in. pots.....	.75	6.00
*Asclepias Tuberosa, Strong one-year-old roots.....	.75	6.00	*Latifolius Atrococcineus, 2 1/2-in. pots.....	.50	4.00	Floribunda, 3-in. pots.....	1.00	8.00
*Asters, Hardy Alpine varieties, 3-in. pots.....	.75	6.00	*Dictamnus Fraxinella Alba, Strong plants.....	1.25	10.00	Grandulosa Grandiflora, 3-in. pots.....	1.00	8.00
*Asters, Hardy Michaelmas varieties, 3-in. pots.....	1.00	8.00	*Ruhra, Strong plants.....	1.00	8.00	Oculus Christi, 4-in. pots.....	1.00	8.00
Amellus Besarabicus, Lilac blue, 12-in. Elegans, Large light blue flowers, 18-in. Amethystinus, Amethyst blue, 3 ft. F. W. Burbidge, Bright, rosy lilac of large size, 3 1/2 ft. Horizontalis, Small, rosy lilac flowers. Lewis, Light blue, September ad October, 4 ft. Longifolia Formosissima, Deep lilac, shaded purple, 4 ft. Mad. Soyaense, Bright, rosy lilac, 15-in. Mrs. F. W. Baynor, Light purplish crimson, 3 ft. Nova Anglie, Large, bluish purple, 3 ft. Rosea, Bright rose colored, 4 ft. Parnicoides, White, Useful for cutting, 13-in. Robert Parker, Large, lavender blue, 4 ft. Snowflake, Pure white, of small size, but freely produced. Star Bright, White tinted with bluish, 4 ft. Thos. S. Ware, Large, rosy lilac, 3 1/2 ft. Top Sawyer, Delicate soft blue, 4 ft. White Queen, Large, broad petaled, white, 3 1/2 ft.								

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Will move, this spring, a block of fine stocky trees; twice transplanted. In good roots, stems, caliper and tops they will please critical buyers. Low rates for March and April orders. Sizes 6 to 7, 7 to 8, 8 to 9, 9 to 10, and 10 to 12 feet.

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Cleveland, O.

News Notes.

There is quite a demand for sham-rock; the sale is in excess of last year's. Everything goes—oxalis, white clover, and true shamrock.

The appraisers for the Cleveland Floral Company, Messrs. Ed. Kendel, Fred Moritz and D. Charlesworth, have estimated the value of the greenhouses, stock, etc., at \$27.

G. Standley has given up the store at Woodland avenue and Wilson street, and gone into the real estate business.

Chas. H. Wilson has taken over the Jennings avenue greenhouses, formerly controlled by the Cleveland Floral Company.

H. R. Carlton, of Willoughby, has opened a flower store in connection with his greenhouses; he will handle a few seeds, also.

Caspar Aul, who has greenhouses on Lee avenue and Doan street, is building an apartment house on a portion of his property. O. G.

Newport, R. I.

Trade Conditions.

Cold nights with the mercury 20 degrees or lower continue, and while it gets quite warm in the middle of the day, very little frost is coming out of the ground. All signs point to a late Spring. The seedsmen are not nearly as busy as they were a week ago; it has been so very cold.

Potatoes to be used for seed purposes are being fast disposed of, but at low rates—\$2.50 to \$3.25 per barrel.

Mr. and Mrs. William J. Matsen are entertaining Miss Hall, of London, at their home on Harrison avenue.

St. Patrick's Day here is a half-holiday, and it looks now like a good business day for our florists. F. W.

NEWPORT, R. I.—John A. Scollay, the Brooklyn (N. Y.) hot water and steam engineer, has just replaced a Scollay boiler in the estate of W. H. Maher, that has been in service 29 years, with one of the firm's improved Scollay boilers. This is certainly a good record for the Scollay boiler.

POMONA, N. C.—The J. Van Lindley Nursery Co. are preparing to build two more new greenhouses to meet their ever increasing demand—one, 30x100 feet, for asparagus and smilax, and one, 24x212 feet, for violets. Among carnations we find the greatest demand for Enchantress and Mrs. T. W. Lawson. Flamingo has proved to be a good variety with us; we shall increase our planting of it the coming season; also a bright red sport of our own, which we have tested for the past two years and find very satisfactory. Funeral work has been brisk lately, helping us up all surplus stock. F. J. McS.

Finds It Helpful.

I read your paper with much interest each week and find the articles very helpful. RUSSELL S. BENNETT, Mass.

THE HARDY ANNUAL OF THE CENTURY

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Seeds in original packets at 25c. each.

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Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced.

Consult any grower who has bought Scottii and he will tell you that it is as far ahead of the Boston as that variety is ahead of all other introductions. See my ad. on page 295 of last week's FLORESTA'S EXCHANGE for full particulars.

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Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; Hibernian and Boston Ferns, 6 in. pots, \$25.00 per 100; 8 in., \$40.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. *Latania Borbonica*, 3 in., pots, \$6.00; 4 in. \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up.

Kentia Forsteriana and *Belmoreana*, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 6 in. pots, \$50.00. 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35. each. *Arca Lutescens*, 4 in., \$20.00; 5 in. \$50.00 per 100; 6 in., \$1.00 each. Larger plants from \$1.50 up.

Arancaria Excela, 4 in., 45c.; \$5.00 per doz. 6 in., \$1.00. Larger plants from \$1.50 up. *Arancaria Compacta*, from \$1.00 to \$5.00 each. *Peperomia Urtica*, 6 in. pots, 50c. *Dracena Indivisa*, 6 in. pots, \$15.00 per 100. *Phoenix Reclinata*, 6 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pot, \$9.00 per doz. Larger plants from \$1.00 up. *Phoenix Canariensis*, fine specimens, from \$3.00 to \$35.00 each. *Azalea*, 10 in.-12 in., \$35.00 per 10. Larger sizes at lowest rates. Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa.
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Many acres, including all the best commercial and florists' varieties. Send for list with prices.

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Mention the Florists' Exchange when writing.

100,000 STRONG

One and two-year Palmetto Asparagus; varieties of Strawberries; Ward Blackberry (see for descriptive circular) one of the most reliable for family or market; other small fruits. Peas and other fruit trees. Low Prices for First-Class Stock.

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JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiræa Japonica, Liliun Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilac, Hydrangea in sorts, Clematis and H. F. Roses in the best sorts.

PRICES MODERATE

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FOR SPRING

We offer a general assortment of **NURSER STOCK**, including a fine assortment of **Apple, Pear, Cherry, Plum and Peach** in all grades, **Shade and Ornamental Trees, Shrubs and Roses.**

CALIFORNIA PRIVET, 1 & 2 1/2 Smock Peach Pitts

Send List for Prices.

Franklin Davis Nursery Co.
Baltimore & Paca Sts., BALTIMORE, MD.

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Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collection in this country.

Gold Medal—Paris—Pan-American—St. Louis, 102 prizes New York State Fair, 1904.

Illustrated Descriptive Catalogue FREE on Request.

ELLWANGER & BARRY
Mt. Hope Nurseries, Rochester, N. Y.
Drauer 1044 U Established 65 Years.

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New Hydrangea AZUREA Sky Blue

Well rooted cuttings, \$6.00 per 100; \$25.00 per 500.

HYDRANGEA OTAKSA Cuttings well rooted, \$4.00 per 100. Immediate delivery.

DOROTHY PERKINS and FARQUHAR Roses
Dormant, one-year-old plants from open ground \$8.00 per 100; \$35.00 per 500; \$60.00 per 1000.

DELIVERY AS SOON AS WEATHER PERMITS.

ANTON SCHULTHEIS, College Point, L. I., N. Y.

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Purely a Business Proposition.

You're seeking trade?
We can help you find it.
Advertise
in our Spring Edition,
March 25, 1905.

EMERSON C. McFADDEN

Wholesale Florist and Grower
Specialties
ASPARAGUS-SMILAX-ROSES
Tel. 28 A SHORT HILLS, N. J.
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Arrived in fine condition. Cattleya Mendellii, Dendrobium Wardianum, Oncidium Tigrinum, Ungulicatum and Lælia anceps.
We have also for immediate delivery fine grown bulbs of Calanthe Veitchii.

LAGER & HURRELL, Summit, N. J.
Orchid Growers and Importers
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ARAUCARIA EXCELSA

From \$1.25 to \$2.00 each.
Kentia Belmoreana, from 50c. to \$5.00 per doz.
Rubber Plants, from \$6.00 per doz. up.
Cyclamen, \$3.50 per doz. up.

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NO. CAMBRIDGE, MASS.
Mention the Florists' Exchange when writing.

Boston Ferns

Extra fine stock, cut from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100.
Kentia, Rubbers, Asparagus, Plumose Nanas. Cash or references, please.

L. H. FOSTER, 45 King St. DORCHESTER, MASS.
Mention the Florists' Exchange when writing.

10,000 FERNS

Fine bushy plants in 2 in. pots. The hardiest and best varieties for fern dishes, \$3.00 per 100.
Pteris Tremula, 3 1/2 in. pots, in perfect condition, 6c. Aspidium Tansetense, 3 in., fine stock, 6c. Boston Ferns, 5 in., strong, 20c.
CASH, PLEASE.

R. G. HANFORD, Norwalk, Conn.
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JOSEPH HEACOCK WYNCOTE PA.
Grower of

KENTIA BELMOREANA AND KENTIA FORSTERIANA
Mention the Florists' Exchange when writing.

KENTIA BELMOREANA

Fine, healthy stock, ready for a shift, \$40.00 per 100.

A. SCHMITT, Cleveland, O. Station H.
Mention the Florists' Exchange when writing.

FERNS, COCOS and KENTIAS

I make a specialty of Small Ferns for jardiniere, etc. A good variety of the right kind, 2 1/2 in., \$3.00 per 100. Cocos and Kentias, fine for centers, 10c. ea.; \$9.00 per 100. Boston and Pierson Ferns, 2 1/2 in., \$1.00 per 100. Dracena Indivisa, 8 in., 50c. and 50c. ea.; 4 in., 10c. Geranium Mme. Salteri, 2 1/2 in., \$2.00 per 100.

H. WESTON, HEMPSTEAD, N. Y.
Mention the Florists' Exchange when writing.

ROSES

Pot up now for Spring Sales.
White and Pink, Mme. Cochet, Clothilde Souper and Crimson Rambler, Field Stock, \$10.00 per 100. Philadelphia Rambler, 15c. See Shrubs, Vines, etc., advertised in this issue. Cash.
BENJ. CONNELL, West Grove, Pa.
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BRIDE AND 'MAID

Strong 2, 3 and 4 eye cuttings, nothing smaller than two eye, rooted and ready for immediate delivery, \$1.50 per 100; \$12.50 per 1000.
Now booking orders for Spring delivery, out of 2 1/2 in., \$3.00 per 100; \$25.00 per 1000. Out of 3 in., \$5.00 per 100; \$45.00 per 1000. Write for sample.

GEO. E. CAMPBELL Flourtown, Penna. Montgomery Co.
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ROSES

From 2 1/2 in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000.
Clothilde Souper, best bedding and pot rose. Pink Maman Cochet, fine for Summer blooming. White Maman Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio
Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON
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ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS
Market and 49th Sts., PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

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AMERICAN BEAUTY, \$5.00 per 100; \$45.00 per 1000. Clean, healthy stock, from 2 1/2 in. pots. Sample on request.

STOCKTON & HOWE, Princeton, N. J.
Mention the Florists' Exchange when writing.

GRAFTED ROSES

Bride and Bridesmaid

Fine stock, from selected wood, some ready for 4-inch pots. I have only a few thousand more than I want for my own use.

2 1/2-inch pots, \$10.00 per 100
R. T. MCGORUM, Natick, Mass.
Mention the Florists' Exchange when writing.

ROSES

CARNATIONS and CHRYSANTHEMUMS

Write For Prices

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

200,000 YOUNG ROSES

FOR THE TRADE

LARGE ASSORTMENT H. P., H. T., TEA, Etc.
All grown from wood taken from plants in the field. Figure this out for yourself—whether better than forced stock. Stock hard and safely shipped anywhere. Send for our low prices and let us tell you what we have.

CALIFORNIA ROSE CO., Los Angeles, Cal.
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ROSES

2 1/2 in. BRIDE and BRIDESMAID, clean, vigorous stock, ready for shift or planting. Order now and get the pick of 10,000 of them.

\$3.50 per 100; \$30.00 per 1000.

PITTSBURG ROSE & CARNATION CO.

FRED. BURKI, President

Crystal Farm, Gibsonsia P. O., Pa.
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Maman-Cochet Roses

Extra strong, two year old field-grown, own root plants. White and pink.

Bdl. of 10, \$1.25; per 100, \$11.00; per 1000, \$100.00.

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Mention the Florists' Exchange when writing.

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FOR

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Rose Hill Nurseries

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The New Rose WELLESLEY

is a welcome addition to the list of forcing roses.

Color is bright pink, with reverse of petals clear silvery pink, thus producing a combination that is exceedingly effective either in daylight or in artificial light.

Growth is very free and exceptionally vigorous and will prove satisfactory every month in the year.

Delivery strictly in rotation, beginning April first.

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OWN ROOT	GRAFTED
\$25.00 per 100	\$30.00 per 100
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100.00 per 500	130.00 per 500
200.00 per 1000	260.00 per 1000

Waban Rose Conservatories

NATICK, MASS.

JOHN N. MAY, Summit, N. J.

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Keen advertisers are availing themselves of the unsurpassed occasion offered by sending us in generously large orders.

Are we in receipt of yours?

THE SIXTEENTH ANNUAL
Special Spring Trade Edition

OF



WILL BE ISSUED

SATURDAY, MARCH 25, 1905

It will be distributed from the Atlantic to the Pacific. It will be read from cover to cover. There will be sufficient contents—reading, advertising and illustrations—to make it more than ordinarily keepable.

We cannot guarantee insertion of advertisements received after the first mails of Thursday morning, March 23, and the earlier in advance of that date we receive yours the better we can do by you in display.

Don't Stay Out!

Quickly Address:

THE FLORISTS' EXCHANGE
 P. O. Box 1697, New York

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INDEX TO STOCK ADVERTISED

Index to stock advertised, listing various plant categories like Acaulium, Achyranthus, Ageratum, etc.

Table of Contents, listing sections like Among Growers, Azalea amena, Books Received, etc.

List of Correspondents.

List of correspondents and their addresses, including names like ALLEHENY, PA., BALTIMORE, MD., etc.

FINEST GERANIUMS IN AMERICA

Sound big, but true. Personally selected and imported by a gentleman for his own conservatory. He sold his property and I got the Geraniums.

WILLIAM T. JAMES, Flushing, N.Y.

Mention the Florists' Exchange when writing.

BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

Cultural Directions

COVERING A NUMBER OF THESE PLANTS AND BULBS MOST LARGELY IN DEMAND

THE "CULTURALS" have been written by experts; they are fuller, and contain more detailed directions than it is possible to embrace in a catalogue.

- List of plants and directions: ANARYLLIS (Hippeastrum), FERNIS, MUSHROOM CULTURE, etc.

500 Cultural Directions for \$1.50, 1,000 for \$2.50

Published on white paper, clear type, size 6 x 9 1/2 inches. Sufficient space will be left at the bottom of each leaflet for your name, address, etc.

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FOUNDED IN 1886



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsman and the Trade in general

Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY by

A. T. DE LA MARE PTG. AND PUB. CO. LTD.

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P. O. Box 1697. Telephone, 3765 John

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One-half inch, 75c.; ¾ inch, \$1.00; 1 inch, \$1.25. Special positions extra. Send for Rate Card, showing discount of 10c., 15c., 25c. or 35c. per inch on continuous advertising. For rates on Wants, etc., see column for Classified Advertisements.

Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's Index will be found on page 331.

News of the Week in Brief.

There is some talk of establishing a flower market in Pittsburg, Pa.

R. G. Lambros, a retail florist, of Milwaukee, was forced into bankruptcy the past week.

George C. Watson, seedsman, Philadelphia, has made an assignment for the benefit of his creditors.

E. D. Adams, the secretary and treasurer of Comstock, Ferris & Co., seed growers, Wethersfield, Conn., is dead.

The Pittsburg florists are to form a bowling club so as to take part in the S. A. F. O. H. contest at Washington.

Some fears are entertained that the present weather will force Easter stock prematurely, and that a shortage in some lines may be expected.

According to Printers' Ink the number of persons engaged as gardeners, florists, nurserymen, seedsman, etc., in the United States is 62,418.

The Providence (R. I.) florists are being sorely tried by the methods employed by the "rape chaser," and are considering ways and means of obtaining relief therefrom.

Luther Burbank has been presented with the first semi-centennial gold medal of the California Academy of Sciences, for meritorious work in developing new forms of flower, fruit and plant life.

The annual show and convention of the American Rose Society occurs in Boston next week, March 23 to 26 inclusive. Another special prize—a silver cup, value \$25—has been donated. A grand exhibition is promised.

A new by-law of the city of Montreal, Quebec, requires that all florists' stores there must close on Wednesday and Thursday evenings at 7 o'clock. A vigorous protest is being made by the craft to have this objectionable stricture repealed.

The Chicago Florists' Club is considering the advisability of instituting a life-membership in that organization. The intention is to use the moneys derived from such membership in the securing of a permanent home for the club, with bowling alleys and all other necessary equipment.

Richard Witterstaetter's new carnation Aristocrat, scoring 93 points, was awarded the S. A. F. O. H. silver medal by the Cincinnati Florists' Society at its recent exhibition. H. Weber & Sons' My Maryland captured the S. A. F. O. H. bronze medal; the variety scored 91 points.

The New York Florists' Club, at its meeting Monday last, discussed the most valuable characteristic in the rose, carnation, chrysanthemum and fern. The discussion was most interesting. See report in this issue. At next meeting the club will tackle the question, Why are carnation growers more progressive than rose growers?

Our Special Edition Next Week.

Next Saturday, March 25, we shall issue our sixteenth Annual Spring Edition. It will well maintain, in every particular, the high standard of its predecessors which have been so successful, from the standpoints of the advertiser, the reader and the publisher.

There is no trade paper devoted to the interest of the florist, nurseryman and seedsman that is so widely read, both at home and abroad; none from whose pages more extracts are made by other similar periodicals than The Florists' Exchange. This is an evidence, and a most conclusive one, of the great intrinsic merit, the high character and serviceableness of its reading matter.

It is, of course, natural that where a paper presents material from which its readers benefit, its clientele should be a large one. As a corollary, the paper that circulates among the largest number engaged in this business, is the best paper in which to advertise. The Florists' Exchange is that paper.

Our Spring editions, in the issuance of which others have emulated us, were inaugurated to afford to the trade in general an opportunity to make a drive in the advertising line at a period when big returns were an unfulfilling result. Our endeavor has been to make these special editions worthy of the occasion. Hence their popularity. This has not been secured by meaningless pictorial effects, but by substantial, timely and appropriate literature.

Our wideawake advertisers have long since learned that The Florists' Exchange stands second to none in its class as a paying advertising medium. Their continued confidence in its business-drawing powers is exemplified by the large number of advertisements that have already reached us. Others of our tradesmen desirous of securing their share of the going business should lose no time in placing their "copy" in our hands.

Remember, it is circulation among readers that insures returns. We have the circulation; our readers are the best buyers in this business. You should get close to them, and this you can only do by advertising in The Florists' Exchange.

Next week, March 25, we shall issue our Sixteenth Annual Special Edition.

Past successes, present popularity, paying results to patrons win for us a big advertising patronage and for our advertisers a large share of the Spring trade.

State Aid Sought for Illinois Florists.

The florists of the State of Illinois, supported by the State Florists' Association and the Chicago Florists' Club, are endeavoring to secure from their Legislature an appropriation of \$10,000 for the erection of glass structures in which can be conducted, under the direction of an advisory committee of the association, experimental greenhouse work relative to the combating of insect and fungus pests, and other problems that confront florists in their daily operations. We present, in another column, some statistics, showing the magnitude of the florist industry in Illinois, which will be a revelation to those who have given the subject little or no consideration. The amount of money invested in floricultural pursuits in that State, according to the 1900 census report, was \$4,648,056, a figure which has been greatly augmented since that time. The State has been quite liberal in its appropriations for experimental work connected with agriculture, and for orchard investigations, etc.; and, it is asserted, "the only reason the florists have not had similar appropriations is because they have not asked for an appropriation for experimental work." The florists have now concluded to ask aid in the direction indicated. They are entitled to it, and should get it. Not only is such experimental work necessary for the florist industry of the State, per se, but as a precautionary measure in protecting both agricultural and other horticultural interests in the State as well, for several diseases and insect pests that occur in greenhouses are likewise troublesome outdoors, and vice versa, and the prevention of their spread is imperative.

We trust the Illinois State Legislature will, in its wisdom, see the great benefit sure to accrue from the granting of the appropriation asked, and its application as indicated. This, that honorable body and its individual members, will be more likely to grasp if the matter be presented to them intelligently by every florist in the State, who should urge its need, its advantage, and the deservedness of its most favorable consideration and concession.

The experiments which the Illinois florists desire that their State Experiment Station shall conduct will not be locally beneficial, but generally advantageous to the florists throughout the country. Therefore, the efforts of the Illinois tradesmen along the lines mentioned, should be supported by the craft as a whole, and backed by each and every national, State, and local organization of florists in the United States.

OUR READERS' VIEWS

Pole Lima Beans.

Editor Florists' Exchange:

By the way Mr. Burnet Landreth concludes his article on "Pole Lima Beans," I judge that he would not be offended if I should venture to disagree with him. I cannot believe that simply because lima beans are allowed to lie on the ground without being afforded poles to climb, that they will in a few years lose their inherent tendency. If such is the law, then it ought to work both ways; and thus, by supporting carnations in an upright position, we ought in time to have a plant able to stand alone; or by disbudding, or allowing only the center bud to remain, we might reasonably expect to get a race of flowers with stiff stems and single buds. Now, I do not say that this will not some day be an accomplished fact, but it will come about in another way. Some conditions of environment, presumably climate and soil, will have a certain effect on the plant as to change in time its structure, and so make the variation the plant breeder is on the lookout for; this change, as it suits his ideal, he will endeavor to isolate and fix.

It seems to me, then, that the failure of beans to climb well after being grown in the climate of California a few years is caused by the plants undergoing a change; and, if as is probably the case, the plants are not "rogued" so as to take out all that become dwarfed, and, on the other hand, only those that show the proper vigor of growth saved for stock, then the product would certainly deteriorate. In fact, I feel safe in saying that this would happen even if the plants were carefully trained to poles.

All garden peas have tendrils and will climb brush if it be placed for them, but where is any garden pea seed grown on brush? Again, take the cowpeas; some varieties are dwarfed and show little or no desire to climb; yet others climb and twist around one another in great confusion. There is no doubt but that the dry climate of California is liable to produce many undesirable variations in plants that naturally require humid conditions. That these should be weeded out is in the interest of the seed grower.

College Park, Md.

THOS. H. WHITE.

The Boston Flower Show.

Editor Florists' Exchange:

Your correspondent, W. N. Craig, in his letter in your issue of March 11, tries to lead your readers so far away from the facts of the subject under discussion that I am again compelled to crave a portion of your valuable space for a few more remarks.

Mr. Craig states that "we are not especially concerned with the fact that some other societies, which hold one or at most two exhibitions a year, go to the trouble of numbering the exhibits and placing the names in sealed envelopes." Now, if the committee is composed of "wide-awake, practical men," as Mr. Craig asserts it is, the members of it would be much concerned in the workings of other societies and would watch their every action so that they might be better able to improve their own, as the times demand.

I am perfectly well aware that methods different from the one now employed by the committee in question were tried a few years ago, and I am also well aware of the facts of the case as to why the scheme was not successful. The chairman of the committee on prizes at that time foresaw that a change was necessary, and worked hard to adopt a system which would be more satisfactory, not only to the committee itself, but to the exhibitors and the public at large. I am also well aware that the chairman received no support from his compeers, who were so much in favor of the antiquated methods used today and were so unbending and certain there was no need of a change; but believed that what had been good enough for their forefathers was also good enough for them. This was why the scheme was a failure—not that it increased the labors of the committee. It lessened them.

I do not agree with Mr. Craig that placing the names of exhibitors on the exhibits before the judging was done has never caused dissatisfaction. From time immemorial there has been more or less dissatisfaction with the doings of this committee. Perhaps Mr. Craig has forgotten that in the year 1902, in his correspondence of the Boston news in American Gardening in the issue of August 2, in his report of the exhibition of July 26, he wrote: "Hardy herbaceous plants in thirty varieties brought out three good collections. W. J. Clemson (E. Powell, gardener) and Carl Blomberg winning in the order named. In our opinion, Mr. Blomberg's display was much the best, however, as it contained a better variety of plants than the collection which received the first prize, and they were beautifully staged, the colors being harmoniously arranged and all the specimens correctly named, the Latin and popular titles, natural order and habitat being given, all of which made the exhibit quite educational. Julius Heurlin's unplaced collection should have been given second place. Several plants were incorrectly named in the first prize collection, and we think the committee should take this matter into consideration at future shows."

In the issue of September 13 from his pen came: "At large exhibitions it would be infinitely better to

have one or two expert judges from outside the society. Another needed change is to exclude all exhibitors and the general public from shows until the judging is completed. Other cities enforce this rule, and so should Boston. It is perfectly absurd to see exhibitors following the committee around and even giving them their opinions, or objecting to their awards, as we have seen in Boston."

Again, in the issue of October 11, speaking of the same committee, he wrote: "We hope in another year to find some radical changes made in this and other directions to keep the society abreast of the times."

Again, on November 15, in his report of the chrysanthemum show, Mr. Craig wrote: "We thought Mr. Barr's flowers better, but Mr. Newell's plants had rather better foliage and were of a little better form."

Now, these and other writings of Mr. Craig's in the journal from which these were taken, go to show that there was dissatisfaction then as now, and that as times change so also must the workings of the society and its committees change. Why should the present committee hang on to these medievalisms?

Mr. Craig again tries very hard to take your readers off the main issue when he says that "my statements were meant to make the members of the committee scratch their heads and smile." I never was more serious in any of my writings, and no criticisms would have been made if they were not justly deserved. I am thankful to note, however, that the committee "will endeavor to walk more circumspectly," etc., and, if they do, I shall take great pleasure in giving them the commendations they will have earned, and be justly entitled to.

JOHN W. DUNCAN.

The Freesia and Its Improvement.

Editor Florists' Exchange:

From time to time there have appeared in several trade papers questions on the subject of freesia cultivation, from which I conclude that it is very little understood. It has been advised by some to plant freesia bulbs at different times to get a succession of bloom. Now, this is wrong; for in all the years I have grown freesia, which is over twenty, I have found that no matter when they are planted, be it July or October, if grown in the same temperature they will bloom at the same time; but with this difference—the early planted bulbs will produce fine flowers with nearly two feet of stem, while the late planted ones will produce inferior blooms with not more than six inches of stem. And there will be a great difference in size of bulbs in favor of the early planted ones, when lifted. I don't wish to be understood to say that freesia cannot be made to bloom at different times, for it certainly can; but only by being grown in different temperatures. I grow from 75,000 to 80,000 bulbs a year; they are all planted at once, very early in August, and those on the warm ends of the benches commence to bloom early in January and are all cut off before the bulbs on the cool ends commence to flower; and they, in turn, are gone before those planted in still cooler houses commence. I cut freesia from early in January until late in April. The cooler freesia is grown, the finer the flowers will be, and the stiffer the stems.

I have been a large grower of freesia for many years. I think I was one of the first, if not the first, to grow it commercially in North America. About twenty-two or twenty-three years ago, when a boy, I came from Germany, and commenced to work for a florist in Douglaston, L. I., a friend of my father, the late Albert Benz. Shortly after I came to him he received from Germany a package of very small freesia bulbs, about a handful. He told me they were a new discovery, and had been sent to him by the discoverer (who had found them in South America) for him to try. [The freesia is a native of South Africa.—Ed.] He planted them very carefully himself. He took the few flowers he got to a dealer in New York, who bought them with his other flowers; but it was a long time after that before freesia cut much of a figure. It is only within the last ten or twelve years that freesia has had any prominence, and during that time it has made rapid strides in favor.

The freesia, as generally grown, is of a very inferior sort. No one seems to think of improving the mixture; much less have they thought of getting out new kinds by fertilization. Now, I know that the freesia is capable of vast improvement, and it won't be many years before the mixture now grown will have to be given up; for there is no reason why time and space should be taken up with poor stock that can only be used for design work, when, for the same time and space, we might have a flower that would rank with the carnation for decorative purposes. Every other flower in turn has been taken up for improvement; why not the freesia, since it is capable of wonderful improvement, which I have already proved to my entire satisfaction? I have obtained a freesia that is as superior to *F. refracta alba* as Mrs. T. W. Lawson carnation is to Wm. Scott, and I expect to get a freesia with bells like young Easter lilies. I am sure that with careful fertilization we would get a freesia of immense size that will take its place among the foremost flowers when in season. If this proves of any interest, I will give my method of culture for the benefit of those concerned. [Please do.—Ed.]

R. FISCHER.

Long Island.

Thuja Gigantea.

The following interesting notes on the Thuja gigantea come from one of our friends in Victoria, British Columbia—G. A. Knight, and for which he has our best thanks:

This magnificent tree grows very abundantly in British Columbia, and undoubtedly is the most useful; but not the most valuable tree here; its uses are many. Our greenhouse post and sash, also our labels are of cedar. The Indians built their houses with split cedar in days gone by and made their canoes out of solid logs. It is wonderful how they did it with only stone and bone tools, but I am told that they used fire to a great extent. These canoes run from very small to very large, seating from one to seventy Indians. Sash and doors, shingles, telegraph and telephone poles, etc., are also made of cedar. Our shingle export trade is very heavy to the Northwest. The wood is very light and resists decay when in contact with the ground more than any other wood that we have growing here. I have found it dipping its graceful branches in the salt water at high tide; at an elevation of four thousand feet, and probably it grows much higher. It grows most abundant in rich, moist bottoms, and attains great size; some have a butt diameter of fifteen to seventeen feet, and run from one hundred to one hundred and fifty feet high. The largest trees are nearly all hollow, and they taper very rapidly, so do not cut so much lumber as one would be inclined to think. Although such a giant, I have employed it very successfully for the last fifteen years as a stock for the *Blota aurea* and elegantissima.

As evidence of how the same common name will be given to many trees, notice how red cedar is given this tree, *Thuja gigantea*, in British Columbia. The original red cedar is *Juniperus virginiana*; but this



THE LATE CHARLES T. SIEBERT.
(See Obituary, page 301, last week's issue.)

common name as well as cedar is applied to many trees nowadays.

The use of the Thuja gigantea as a stock for the Chinese section, the biola, is not generally known. But the typical Chinese one, *orientalis*, is so easily obtained that its use as a stock is almost universal. JOSEPH MEEHAN.

BOOKS RECEIVED.

ANOTHER HARDY GARDEN BOOK. By Helena Rutherford Ely. Publishers, The Macmillan Company, New York. Illustrated.

The mission of this book is set forth by the author as follows: "It is not intended to be a treatise upon any of the subjects referred to, or in any way to take the place of the many admirable books upon gardening. It is a brief statement of simple methods of conducting gardening operations, particularly in the small home garden." Mrs. Ely has succeeded in the culmination of her humble pretensions in producing a readable, instructive volume. She talks in an entertaining way on the vegetable garden, giving, occasionally, cooking recipes, on fruits, trees, perennials, lilies, work in the flower garden, etc., and for the most part her cultural directions could be safely followed by the average amateur gardener, for whom, of course, she writes. It is unfortunate, however, that so many lapses occur in the orthography of the plant nomenclature, due largely to carelessness in the proof reading, as the names are at times correctly spelled, at other times misspelled. We believe that where a plant is recommended by an author, he or she should first of all ascertain what it is they are really talking about, and that, as far as possible, correct varietal or specific names should be given as leading to an easier acquisition by readers of the plants suggested for various purposes. Defects of this character are not uncommon in Mrs. Ely's otherwise very serviceable book.



Ellis D. Adams.

Ellis D. Adams, secretary and treasurer of Comstock, Ferre & Co., Wethersfield, Conn., died on the 10th inst., after an illness of about one month. He had been in rather feeble health for the past two years, but his death was hastened by an attack of acute Bright's disease. Mr. Adams had been connected with this firm, in the seed business, for nearly thirty-five years, commencing in 1870 when he was 23 years of age. He was born in the town of Wethersfield, and had always lived there. He was a man respected and held in high esteem by all who knew him. He leaves a widow and two children.

Gathered and Gleaned.

"I am a gatherer and compiler of other people's stuff."

Recently I overheard a conversation between two worthy representatives of prominent firms concerning the Baby Rambler rose. Both agreed that this dwarf rose makes a pretty plant, but that for an Easter subject it would never, in their opinion, supplant its climbing confrère. On the other hand, it would prove an acquisition at Christmas if properly treated. Another feature for this rose was said to be that, after being sold at Easter as a window plant, it can be planted out in the garden, where it will continue to bloom for a long period.

Said a prominent New York grower and importer to me, the other day: "We growers are considering the advisability of starting a growers' association, admitting to membership only those who cultivate and sell plants. We believe an organization of this kind, where prices can be discussed with a view to some sort of standard values being maintained, has become an absolute necessity. Our present national and local associations cannot, by force of circumstances, discuss that and other questions of equal importance; and there is certainly a great need of prices being regulated, so that at least a modest living can be made by the man who grows the stock." I understand the matter has been under advisement for some time, and that the initiatory steps, looking to organization, will soon be taken.

A very interesting question was recently broached by a worthy member of the commission house fraternity, viz.: What is the most valuable characteristic in a trade paper man? That some of these individuals believe, and no doubt rightly so, that they have valuable characteristics is a foregone conclusion. To determine which is the most valuable attribute might be a difficult matter, all depending upon the point of view of the man attempting it. The newspaper representative may perhaps believe that his most valuable characteristic is that said to be possessed by one of the fraternity, in influencing growers in the matter of consigning their shipments with the consequent belief that he can "make or mar" the wholesale man. Another might think that to tell the truth in his paper every week was the most valuable characteristic in himself and for all concerned. Yet another may be under the impression that his most valuable attribute is knowing how to use good judgment as to what is fit to print, and what is of no value to anybody after it is printed. A not very erroneous belief would be that the most valuable characteristic in a trade paper man is his ability to serve his employers in the best manner possible, to state things as they are without fear or favor, so that all concerned may be benefited by his work, and no one harmed thereby.

I was much amused to learn from a metropolitan wholesale commission man of the tactics adopted by a certain scribe for a horticultural trade paper, to ingratiate himself into the good graces of the female bookkeepers now employed by some commission houses. This party—a benedict, too—buys for each lady clerk, at Christmas, a box of candy, which is presented in proper form, with all the suavity and politeness of a Chesterfield. The best of the joke is that the candy supplied did not suit the high epicurean tastes of the recipients, and was unceremoniously turned over by the fair ones to their sterner co-workers, for munching and disposal. One wonders what remunerative influence the females afford for the outlay.

THE GATHERER.

THE MILWAUKEE (WIS.) FLORISTS' CLUB has decided to hold a flower show in May.

AMONG THE GROWERS.

Henry A. Dreer, Inc., Riverton, N. J.

There is a great amount of pleasure to be derived from a visit to this immense establishment at this time of the year, in seeing the vast array of stock, all prepared ready for the general rush of orders when the season opens up. But, no matter when one goes to Riverton, the benches in the packing shed are always full. Here comes one order clerk with a wheelbarrow full of cocos, another with a load of dormant roses; yet another is seen with a flat full of hardy pinks in pots on one shoulder, and a pick on the other shoulder (the pick was what he dug out the order with); from another direction comes a lot of privet for a Southern order.

It has been usual to see a lot of azaleas on hand at this time of year, but owing to Easter, 1905, coming so late, a change in policy had to be made this year. It has been usual to hold azaleas and deliver as customers wished them, up to within a few weeks of Easter; but, this season, all orders were booked for delivery not later than January. This firm sold more azaleas than ever before; their customers, on having the situation explained to them, gladly accepted the terms for Fall and Winter delivery, as they clearly saw how these plants would handicap the proper filling of Spring orders, if not gotten out of the way early. So with azaleas out of the way, the facilities for the convenient arrangement of stock have

among these are *Kentia Sanderi*, and some grand specimens of *Phoenix Roebelini*. There is at present a block of 300 plants of *Dracæna Goldæana* in 4-inch pots, perfect plants, a credit to the establishment, as they certainly could not be duplicated in quantity or quality to-day.

The firm is also very strong on *pandanus*, a fine stock of both *Sanderi* and *Veitchii* in good commercial sizes being on hand.

Ferns.

This department, which has assumed such large proportions, is, as usual, busy in pushing along the small ferns for the Summer and Fall orders. Two houses are entirely taken up as seed houses, with thousands of 6-inch pots. Here we see ferns in all stages, from spores just planted up to seedlings so far developed that they were, on the day of our visit, being transplanted into flats by men who do scarcely anything else the year around, and thereby have become expert in handling these minute plants. Two houses, each 25x150 feet, were filled with flats containing these small ferns. There are 200 ferns pricked off into each flat, and 1,200 flats to a house, making a total of 480,000 ferns in the two houses, in various stages of development. From here they are potted into small pots and are seen by the million in the other houses. At the present time there is a very large stock of the common form of *Adiantum cuneatum* in 4, 5 and 6-inch pots. In commenting on this, we were informed the books showed that during the four weeks preceding each Easter, there are more plants of this variety

young plants of the tender *nymphæas*, as well as the *Victoria Regia*. The season for these plants opens after the middle of April.

Platycterium (Stag Horn Fern.)

In a house near the aquatics is a grand collection of these plants, from small ones in 5-inch pots up to specimens in 14-inch pans. All the choice varieties are represented. These plants are, to a large extent, overlooked by the average florist. A prominent retail store in Philadelphia always keeps a few plants on hand and sells a good many every year.

Palms.

The two immense blocks of glass of over one acre each are still devoted to palms and contain a grand stock of clean, healthy plants with deep green foliage. *Kentias*, as may be expected, predominate, and it would be impossible to find a better or larger number of such big plants as are seen here, in tubs and large pots—some single plants, others made up, all very suitable for decorative work. Every plant is labeled with the price. These prices appeared to the writer to be very reasonable. Mr. Eisele explained that they were fixed in November last, and therefore anyone buying now has the advantage of the Winter's growth, which is very important, as *kentias* make most growth during the Winter months. Of *arcæas* we saw a large stock. While the demand for very large specimens of these has fallen off, there is yet a strong call for 5 and 6-inch plants, both made up and single, and a large stock is yet grown. The stock of *kentias* in commercial sizes is an enormous one; the 5, 6 and 7-inch plants are a grand lot, stocky and clean and of good value. *Latantias* are still grown, there being a steady demand for some each year. The stock of *cocos* is a very large one, consisting of good, healthy plants in the various sizes. In *phœnix* we noticed a grand lot of plants, 3½ to 4 feet high, in small tubs, splendid for decorative work or for use later on for lawn or porch adornment. These plants are of splendid growth, stocky and of very healthy colored foliage.

Palm seed is seen all around, in pots and flats, also under benches covered with peat; 75 bushels of *kentia* seed were used at one planting.

The Bulb Room.

Here we saw an immense stock of the various Summer-flowering bulbs all stored in compartments ready for the filling of orders—*begonias*, *gladiolus*, *glaxinias*, *dahlias*, *tuberoses*, *cannas*, etc. The *dahlias* are prepared in a very careful manner; each root has a printed label attached and the name of variety and the class to which it belongs is on the label. We noticed a large stock of the new pink cut flower *dahlia Kriemhilde*. This variety is illustrated in color on the retail catalogue of this firm this season, and is evidently very popular, as nearly every retail order contains a demand for one or more roots. The trade is also ordering it for cut flower supply during Summer. The list of *dahlias* includes all the best of both home and foreign introduction, every variety being tested by this firm as soon as offered. We noticed a very good stock of *hay trees* in all shapes and sizes, including the new styles, the dwarf standard and the standard pyramid, or imperial. Also a good stock of *box trees*, standard and pyramid. A large importation of *rhododendrons* was being unpacked—a fine lot of well-budded plants.

A houseful of *Dracæna indivisa* in 2½ to 9-inch pots was an attraction. Bedding plants, including all standard *geraniums*, *coleus* and *alternanthera*, etc., in many varieties were seen. Two houses full of dormant *canna* roots covered with sphagnum just starting in growth were observed. The demand for dormant roots has fallen off the past two years, but has increased for started plants in pots. These roots are now being started to supply the demands for the planting out as that season comes along.

Some Novelties.

Of the newer plants there were the new double *Paris daisy*, *Queen Alexandra*; new crimson fountain grass, a grand acquisition for bedding purposes; the new white hybrid perpetual rose, *Frau Karl Druschki*, of German introduction, and sent over with good recommendations; giant snapdragons, *Antirrhinum majus*, unequalled as a plant for Summer cut flowers; *Asparagus plumosus compactus*, for which there is an increasing demand for ferneries, etc. Everblooming hardy crimson pink, *Napoleon III.*; this is a good acquisition and will be in demand. *Ficus lutescens*, with a leaf resembling that of the mistletoe, bearing orange colored berries, is a pretty plant. In addition, there are several new ferns, aquatic plants, *geraniums*, etc.

Perennials.

This is an immense establishment by itself. Hardy perennials have been a specialty with this firm for many years, and much space is devoted to their cultivation. A great deal of care and thought has been given to this department, in order to produce plants that will give the best possible results to the planter. A large number of frames have been devoted to their storage. These frames are each 6x125 feet; there are about 170 of them, each one numbered, so that it is easy to fill orders, a list being handy with the contents of each frame. The bulk of the stock in the frames is field grown, but has been potted up during the Fall and early Winter months into 3, 4 and 6-inch



HOUSES CONTAINING 110,000 ROSE PLANTS IN 5 AND 6 INCH POTS, AT DREER'S NURSERIES, RIVERTON, N. J.

been greatly increased; therefore, there will be no congestion in the order and shipping department, as usually takes place in April and May, and customers will receive prompt service in the filling of their orders.

Pot Roses.

The illustration given herewith shows the block of short span houses filled with dormant pot roses. There are in this lot 110,000 plants in 5 and 6-inch pots. In the list are included all the best varieties for outdoor planting, in hybrid perpetuals, hybrid teas, teas and climbing roses. In addition, many frames are filled with some hardier varieties. The illustration shows these roses stored cold, buds are just swelling out. Each plant, it will be noticed, is staked, and on each is a printed label. The roses as a whole are an exceptionally fine lot. There is a grand lot of climbing roses that will produce immediate effect. It was a surprise to see such a large block of the *Baby Rambler* as this firm has on hand. This rose is selling well both to wholesale and retail customers.

Ornamental Foliage Plants.

This firm always has a good stock of these plants, but they are stronger than ever this season, as the demand is found to be on the increase. There are 30 varieties of *marantas*, without a doubt the largest assortment to be found to-day in a commercial establishment. Of other stove plants seen were a good assortment of *alocasias*, *anthuriums*, *diefenbachias*, *aglaonemas* and *aralias*. Hanging in this same house were a thrifty looking lot of young *nepenthes*; also some nice plants of *philodendrons* and *phyllotæniums*. There is also here a nice block of the rarer palms,

sold than at any other period during the year. We noticed also a fine lot of Boston ferns in 6-inch pots, compact, bushy plants, ready for immediate sales; and thousands of young plants in 2½-inch pots. But on this place *Nephrolepis Scottii* is being pushed forward for supremacy in this class. Many thousands of this variety are planted out in benches for stock; the runners are taken off and planted in other benches, whence, when properly started, they are potted. Thousands of them are already potted up. Mr. Eisele is a firm believer in the Scott fern. While the trade is yet rather skeptical about the displacement of the Boston fern, he feels convinced as to the future of the two varieties.

There are three new varieties of *nephrolepis* of English origin now under trial here, but as yet they are not sufficiently developed to enable one to form an idea of their merits. They look promising, and no doubt will be heard from later.

Water Lilies and other Aquatic Plants.

In answer to the question, "Does this department continue to increase?" Mr. Eisele said: "Yes, we have a more extensive stock than ever before. There is an increasing demand, and we find that our orders from Europe are much larger than in former years. England took up *nymphæa* growing some years ago, and the taste is spreading; while in Germany the display of aquatics at the Dusseldorf Horticultural Exhibition last Summer has created more taste and demand. The result of our display at the St. Louis Exposition has been very satisfactory; we have had correspondence, not only from all over our own country but from all parts of the world. People are now realizing how cheaply aquatics can be grown, as, after the tank, or pond, is made, the subsequent cost is less than for any kind of bedding plants." It was noticed that the tanks in the houses were filled with

pots, according to variety, the size being decided upon with a view to give the best immediate returns after planting; while many sorts, such as gaillardias, achilleas, eupatoriums and similar plants with running roots, of which it is impossible to dig a plant in good shape, are entirely pot-grown, each plant's ball of earth being a mass of working roots and eyes ready to start as soon as planted out. In answer to our question as to how the public in general appreciate this pot-grown stock, Mr. Eisele said: "We had difficulty in convincing some planters of the superiority of this stock, but they are now commencing to appreciate the difference." "What led you to go to all this trouble?" "Well, take for instance the Oriental poppies. If dug here after April 10, shipped to some distant point, and planted they would simply not grow, but gradually get smaller. Now, we can ship established plants that were dug last August, when dormant, potted up, and are now firmly established in pots; these we can ship anywhere as late as June 1, and they will go right along and give satisfaction. This same treatment applies to almost all the perennials." "But how do you get repaid for all this extra outlay?" "Well, it does cost considerable in labor to do all this extra work, but we make no additional charge, and the increased demand is amply repaying us for our extra outlay, and has proven to us that our system is appreciated."

We were next shown three houses filled with Japanese anemones, most of them one-year-old; they were in 3-inch pots. "Are these pot-grown?" we asked. "No; they are field-grown, and you will notice they are all in active growth. We tried several ways to carry these plants over Winter. When stored in cold frames one-half were Winter-killed; stored in a cellar they lost vitality from drying out, so that the season was half over before any result was obtained. Now these pot-grown plants, being, as you see, full of working roots, will go right ahead and flower early in August."

"What about the cheaper kinds of perennials?" "We grow them in the same way. Rudbeckia Golden Glow, coreopsis, sweet williams, wallflowers, etc. These are all cheap, and we aim to have them all in the best possible condition to go along with the higher priced plants, and thus supply a complete line of perennials that will give immediate effect. No doubt you have noticed how our list has enlarged in the past few years. In this increase we do not give consideration to botanical specimens, but confine ourselves to such species as will prove of service to our customers."

"Have you many new things in perennials this season?"

"Yes, there are a number of good novelties. The principal ones are *Astilbe Davidii*, *Gypsophila paniculata* fl. pl.; *Helenium cuprum*, *Heliopsis Pitcherianum* semi-pl.; and *Iris pallida folia variegata*." This novelty we particularly noticed; it is a superb introduction, the variegation being a pure gold and very beautiful. All of the foregoing Mr. Eisele said he had seen growing, and felt sure there would be a place for them in this country. "But we feel," he said, "that there are better things among the old plants; in fact, practically forgotten plants which, to the average buyer, are new. For instance, take some we have recently offered: *Dianthus*, *Napoleon III.*, *Campanula persifolia gigantea Moorheimi*, *Hemerocallis florham*, *Delphinium belladonna*, *Astrantea major*, *Cimicifuga simplex*, *Clematis recta*, *Erodium mawscavi*, *Penstemon grandiflorum*, *Primula cortusoides* Sieboldi, *Senecio pulcher*, and the various varieties of *saxifraga*—all plants that succeed under the most ordinary culture, and which were introduced years ago, many of them practically unknown to the average planter. These are only a few, but many more can readily be found. We are now trying some that we saw growing in Europe last year, and will list them as their merits appeal to us."

Next we came to a frame which Mr. Eisele said contained 300 varieties of perennial plants, old sorts with which they were not yet familiar and some new introductions for trial this season.

We noticed several houses devoted to young seedling perennials, either young plants just germinating or that had been transplanted into flats, ready to move into cold frames as soon as the weather permits. The object in growing these in the houses is to get all this work out of the way before the outdoor work begins. This not only gets the young plants under way earlier, but greatly facilitates the other work.

Thus ended a very pleasant visit to this grand establishment. Now, to those who may read this, I say: "Are you going to the S. A. F. convention in Washington in August? If so, leave home a day earlier, and spend a day at Riverton. You will be amply repaid for your trouble, and will see many things probably that you have forgotten. And a look at the methodical way in which the place is kept, and the vast stock of plants handled, will send you home a wiser and happier man." DAVID RUST.

Wellesley, Mass.

D. CARMICHAEL is well known among the carnation growers for the Boston market. He has a compact establishment of nearly twenty thousand feet of glass. A great many of the standard varieties are grown and done well, too. Fair Maid is considered one of the best of its color, although Enchantress is also grown. One house of the former is particularly good at present. Mrs. Thos. W. Lawson is grown quite extensively, and a variety which is done well here and considered one of the best of its color is Mrs. E. A. Nelson. It is rather hard to root, and the plants are somewhat difficult to establish after it is rooted, yet when once started it is a good grower, and as a

producer will beat Mrs. Thos. W. Lawson by one-third. Eldorado is grown quite extensively for a yellow sort; two benches in one house were looking very fine indeed. Queen is considered the best white for general purposes. Boston Market has been grown a good deal, but will be discarded this year. Harry Fenn is considered the best dark crimson variety and is grown quite extensively. As a scarlet, a seedling raised by Mr. Carmichael is grown, and while not a large flower, it has done so well this season that it will be grown quite extensively next year, and if it continues in favor it will be heard more about. Like all other carnation enthusiasts, Mr. Carmichael has a number of seedlings that he is trying, and several of them he hopes to bring to the notice of the public later on.

The establishment of W. R. MORRIS is one of the youngest in the neighborhood, having been started only last Spring. It is composed of only one modern house, 250 x 30 feet, and is entirely devoted to the growing of roses. Bride and Bridesmaid are the only varieties grown, about equal numbers of each. Grafted stock is used entirely and grown in benches, which Mr. Morris believes superior to solid beds. Mr. Morris is master of his profession without question, for we have seldom seen such an even appearing lot of plants in one house, and the flowers, which are of good size, are well formed. The Bridesmaid are of as high a color as could be desired. With the success that has attended this young grower during the first year of his business, we look forward soon to the enlarging of his establishment.

Dictamnus Fraxinella.

The dictamnus, or gas plant, has always had more or less of a reputation as a noteworthy subject, owing to its peculiar property of giving off an inflammable gas when in bloom. I recollect an enterprising reporter on one of the London papers writing it up as the identical kind of plant that Moses saw on Mount Horeh when the Lord appeared unto him, and went on to say the bush was to be seen in flower in the New Gardens.

Most of the members of the natural order Rutaceæ, to which the dictamnus belongs, seem to abound with a pungent volatile oil, although it may not be given off in an inflammable form as in the dictamnus. To those who have never seen the phenomenon, the best time to make the experiment is just after the sun has gone down on a warm day, while the plants are in bloom. By holding a lighted match close to the flowers, the gas will be seen to ignite quite distinctly. Apart from this peculiar feature, it is one of the most desirable of hardy plants and well worth a place in every flower garden. It has a sturdy, upright habit, and grows from one to two feet in height; the rosy purple or white flowers are in racemes and are borne well above the foliage. Compared with other hardy perennials it is of very slow growth and much longer lived; if established in a suitable position it will con-



SNAPDRAGON AND SWEET ALYSSUM

Photo by John F. Johnston

W. S. WILSON'S place comprises some 25,000 feet of glass and is one of the rose-growing establishments that have been known for several years. Bride and Bridesmaid are the principal varieties grown, although several others receive attention. They are all raised in solid beds, grafted stock being used, and renewals made in planting every third year. Many fine blooms were seen, and as some of the houses are just coming into crop, there is appearance yet of a large cutting. A variety which is grown very little in this locality has been receiving attention here. This is Mme. Abel Chatenay. One house is partially filled with it; and although it has not done very well during the most of the Winter, it is now growing finely and showing appearance of many fine flowers on very rigid stems. Mr. Wilson has high hopes for it. Two houses are devoted to the growing of Kaiserin Augusta Victoria and Souvenir du President Carnot for Summer blooming; these have just been started up after resting during the Winter and have begun to break nicely. J. W. DUNCAN.

Snapdragons and Sweet Alyssum.

These two hardy annuals are prime favorites with lovers of hardy flowers. The mere mentioning of the name sweet alyssum seems always to recall thoughts of sweet perfume and honey bees; also, how vivid the snowy white edgings that can be formed by this plant with little more labor than the work of sowing the seed.

Snapdragons, or antirrhinums, alike well known, prove grand subjects for supplying ample cut flower material; they bloom so continuously. Glen Cove, L. I. JOHN F. JOHNSTON.

tinue to thrive for a generation or more. Dictamnus may be propagated by division, but this is necessarily a slow process. The better way is to raise the plants from seed, which should be sown as soon as ripe in the open ground. A well drained position is the most suitable for the plant. ERNEST HEMMING.

A New Species of Dahlia.

A. J. Pieters, botanist, in charge of the Seed and Plant Introduction of the Department of Agriculture, Washington, D. C., has in the greenhouses under his charge twelve plants of a wild species of Mexican dahlia, which was introduced last year. He has not as yet been able to find any published description of this species. Dr. Rose, chief of the herbarium, has kindly undertaken to assist him in this matter, when, no doubt, it will be determined shortly. The foliage of this species is entirely different from the dahlia of commerce, and it is not until it throws up its scarlet flowers that the dahlia becomes evident. Mr. Pieters has succeeded in making crosses with the best and latest varieties in commerce, using the Mexican species as the seed parent, and from which he has obtained at least fifteen distinct looking varieties—Judging from their foliage and the flowers of the few that have so far appeared, they promise to take a prominent position among the dahlias of the future. Mr. Pieters hopes to have them in prime condition about the time of the convention of the S. A. F. O. H., and anyone, whether interested in dahlias or not, will do well to pay him a visit at the Department, where an intellectual treat is in store for them. M. C.

CANADIAN NEWS

MONTREAL.—The weather continues cold, but very bright. Cut flowers are plentiful and good. Violets sell well, especially the singles. Bulbous stock is rather slow of sale. Shamrocks were in good demand for St. Patrick's Day. White carnations colored green were advertised by some florists. Smilax is scarce.

Florists' stores, according to a new city by-law, must close on Wednesday and Thursday evenings of each week at 7 o'clock. Grocers, dry goods stores, etc., come under this new by-law, but saloons, tobacconists and confectioners do not. It is probable that the obnoxious regulation will be repealed, as a vigorous protest is being worked up against it.

At the club meeting Monday night it was decided to award the Chicago Carnation Co. a silver cup for its exhibit of carnations made here some days ago. Thos. Pewtress read a paper on hardy roses which was well received.

Alf. Wilshire has been serving his country faithfully for the past two weeks on the jury. Jos. Bennett will do likewise this week.

Jas. McKenna, who has been laid up for two weeks with the grip, is out again.

W. C. H.

TORONTO.—Business the past week has been very good, with stock plentiful. All flowers, except extra roses and orchids, are generally in over supply and often are offered very cheaply. Carnations have been coming in in great numbers; they are seen everywhere. The death of a very prominent citizen, on Friday last, used up a large quantity of stock, but there appears to be any quantity left on hand. Bulbous stock and lily of the valley is plentiful and generally good. Plants are selling more freely now, and there is a fair demand for nice flowering stock and well-grown ferns. There does not seem to be much demand for palms at present. All our seed stores are very busy now.

John Dunlop's houses just now are well worth a visit by anyone in the trade interested in carnation stock; he has thousands of young plants, in nearly all the best varieties, in fine condition. I have never before seen propagating beds look better than his do; every cutting rooted without a miss. The roses have been doing well and promise a grand cut. The new variety, General MacArthur, is well liked. Franz Deegen also is doing well and will be more extensively grown. Mr. Dunlop was at Richmond, Ind., lately and was much impressed with the Hill Company's rose, Richmond; he will grow it largely for next season. American Beauty is looking very well; the young stock of this variety is, like the young carnations, very fine.

Mr. Dunlop was at the meeting of the Executive Committee of the C. H. A. at Montreal, and states that arrangements have been made by the boys down there for an exceptionally good convention in August. He reports a splendid meeting of the committee, and hopes we may have many of our friends from across the border with us this year.

The Toronto Horticultural Society held an "at home" at its room in St. George's Hall on the 8th inst.

Wholesale prices this week are: Roses, No. 1, \$30 to \$35 per 100; culls and ordinary, \$5 to \$10; Bride and Bridesmaid, \$12; No. 1, \$8 to \$10; No. 2, \$2 to \$8. Mme. Cusin, \$2 to \$12. Liberty, Meteor, Mrs. Pierpont Morgan, same price. Perle des Jardins, \$2 to \$10. Orchids, cattleyas, 35c. each; cypripediums, 12c. to 15c. each. Carnations, inferior grades, all colors, 75c. per 100; standard varieties, \$1 to \$4 per 100. Adiantum, ordinary, \$1. Asparagus, \$5 to \$75; A. Sprenger, \$2 to \$3. Callas, \$8 to \$10; daffodils, \$1 to \$2; daisies, \$1; freesias, \$2 to \$3; galax leaves, 10c. to 15c. per 100. Lillum Harrisii, \$10 to \$12.50; lily of the valley, \$1 to \$3; mignonette, ordinary, \$1 to \$3; fancy, \$3 to \$5; nareissus, \$1 to \$4; sweet peas, \$1.50 to \$2.50; tulips, single, \$1.50 to \$2; double, \$2 to \$4; violets, ordinary, 50c. to 60c.; extra, 75c. to \$1.50 per 100.

THOS. MANTON.

New York.

The Week's News.

Potted plants of shamrock have been called for quite extensively this week in some portions of the city, and so far as we have been able to learn, the supply gave out early in the week. For the past two or three years, shamrocks were grown in quite large numbers in anticipation of St. Patrick's Day big demand, but it has been the rule that they did not clear out very satisfactorily, and that fact is no doubt responsible for the short supply this year. While on the subject of shamrocks, it is worthy of note that anything in the clover line seems to pass muster for this historical plant, and one sees both large and small-leaved varieties of trifolium sold as the genuine article, and the public at large is satisfied.

Green carnations have also been in demand, and, thanks to the scientific knowledge of chemistry of some of our florists, the divine flower in green has been supplied on short notice to all who wished, at slightly advanced rates over the ordinary colors.

Next Monday evening, March 20, the New York and the North Hudson County bowling clubs meet in a return match on the alleys of the former. A strenuous time is expected. The last match between these two rival teams resulted in a tie, hence the intense interest taken in the forthcoming games.

Henry Molatsch, who for many years has conducted a growing establishment at Bay Ridge, Brooklyn, N. Y., has built a range of greenhouses at Nanuet, N. Y., and moved his business there.

In spite of the low prices that have prevailed for violets this Winter, it is evident that the growing of these flowers has been quite profitable, for it is stated on good authority that 50 new greenhouses will be erected in Rhinebeck, N. Y., this Spring, and all of them are to be used solely for violets. There has also been recently organized a company called the Rhinebeck Violet Association, which will construct the largest establishment in that town for the cultivation of violets, it is said. Land has been acquired, and building will commence just as soon as the weather will permit.

On Tuesday the auction season of Wm. Elliott & Sons commenced, and from now until the last part of June sales will be held regularly twice a week—on Tuesday and Friday.

John Allen, who has been a gardener in the Vanderbilt family for over 25 years, has been pensioned for life, with full salary, in recognition of his long and faithful service.

Mr. and Mrs. Anton Schultheis, florists of Scranton, Pa., have been spending a few days with their cousin, Anton Schultheis, College Point, N. Y.

Lord & Burnham, of New York and Irvington, N. Y., have in course of construction a conservatory designed for the use of a wealthy Chinaman of Hong Kong. In order to assure the proper assembling of the parts on its arrival at its destination, the whole building will be put together in the factory, each section marked, and then taken apart and shipped.

James J. Mulroy, formerly representing Sigmund Geller on the road, is now traveling in the interests of Reed & Keller and Lion & Wertheimer.

A. Dimmock, who represents Sander & Sons, England, will arrive in New York on the S. S. Lucania to-day (Saturday).

John A. Scollay, hot-water and steam engineer, 72-74 Myrtle avenue, Brooklyn, N. Y., is making six different styles of his new line of boilers, and 70 different sizes. Business is unusually brisk, and the factory is kept running to its fullest capacity.

Indianapolis.

News Items.

A new girl baby arrived at the home of Mr. and Mrs. Clarence Green. The department stores are well supplied with stock and are advertising American Beauty at 50c. a dozen and carnations at 35c. a dozen.

John Bertermann and daughter Irma are arranging for a trip to Europe in the near future.

The Smith & Young Company will start to build its new range of houses during the coming week. I. B.

Boston.

The Coming Rose Show.

The coming exhibition in connection with the meeting of the American Rose Society promises to surpass any show ever held in Boston at this season of the year. A leading feature of the exhibition will be the fine display of Rambler roses by M. H. Walsh. This will be a far superior lot to those exhibited last year, and will contain several fine varieties which have never before been shown to the public. Another exhibitor will make an immense display of hybrid roses in pots. Another novelty to be shown will be the new fern "Dorchester," from Daniel Sullivan, manager of the L. H. Foster estate. This fern is a sport from the Anna Foster, raised several years ago by the late L. H. Foster. It is quite distinct, and is in every way superior to the older variety.

The entertainment committee of the Gardeners and Florists' Club has arranged for a banquet in honor of the visiting members of the American Rose Society, on the evening of Friday, the 24th inst., at the Thorndyke Hotel.

News Gittings.

Mrs. Fred R. Mathieson died at her home in Waltham, on Wednesday, March 8. She had been a sufferer for years, although her illness did not take a serious turn until a few days previous to her death. The funeral was held Saturday afternoon, and was largely attended by gardeners and florists in this locality. The outing of the Gardeners and Florists' Club, which was to have taken place Saturday afternoon, was postponed one week on account of the funeral.

M. H. Walsh, of Wood's Hole, has sold all of his stock that he has been growing for the Easter trade of his new Rambler rose, Wedding Bells, to Wadley & Smythe, New York. This is one of the finest pink roses we have seen, and we predicted, when we saw it on exhibition a year ago, that it would make a splendid plant for the Easter trade. This fact has been demonstrated by the enterprise of this well-known New York firm.

The Sunday Globe had quite an article on the carnation, having interviewed the well-known specialist, Peter Fisher, of Ellis. The article quotes Mr. Fisher as saying that "of the 30,000 plants that he grows annually a fair average production is 20 to 25 blooms per plant, although some varieties do better than that."

Mrs. G. A. Sutherland has sold out her business on Bromfield street to Hoffmann, the Back Bay florist. Mr. Hoffmann will carry on the business as a branch store, will renovate the whole interior, and will open up in a few days for business.

Welch Bros. are handling some extra fine Queen of Edgely roses from the Floral Exchange, Edgely, Pa.

Daniel Sullivan, of the L. H. Foster estate, Dorchester, reports an unprecedented demand for Boston ferns.

MacMulkin has done quite a business in combination baskets of fruit and flowers recently. These were much used as gifts to passengers on the Romanic, which left this port Saturday for the Mediterranean.

W. H. Elliott, of Brighton, will be the speaker at the meeting of the Gardeners and Florists' Club on Tuesday next. He will talk on his recent trip to Jamaica, Porto Rico and Cuba.

J. W. DUNCAN.

Chicago.

News Notes.

Green carnations and shamrock have begun to arrive in anticipation of the 17th of March. The shamrock seen so far has been oxalis.

James Hartshorne and James S. Wilson attended the meeting of the St. Louis Florists' Club, March 9, the former making an exhibit of carnations and the latter a display of Baby Rambler rose.

The greenhouse construction people report a greater activity in the building line than for several seasons. This is caused, to a great extent, by several of the larger firms rebuilding some of their glass.

John Thorpe has been regularly employed by the Chicago Tribune to write a series of articles on gardening touching on the best methods that should be employed by the general public.

Carl Cropp, of Vaughan's Seed Store, in an interview with a reporter for the

Evening Journal, gave a very interesting account of mushroom culture from the new spawn which they have been selling and exhibiting in their store window recently.

George Weston, formerly salesman in Vaughan's Seed Store, is now in charge of the seed department of Sears, Roebuck & Co., a large mail order house of this city, seeds being a new feature with them.

Vaughan & Sperry report a good supply of wild smilax on hand, and are able to fill all orders. Some other houses report a shortage of this stock.

A. L. Randall is again at the office after a short siege of sickness. The A. L. Randall Company are handling an exceedingly high grade of Bride and Bridesmaid roses. Their eastern violets find a ready sale.

Karna Pehrson, wife of John Pehrson, manager of the Clark street store of the George Wittbold Company, died March 3. The funeral was held Sunday, March 5; interment in Graceland Cemetery. His many friends in the trade extend their heartfelt sympathy to Mr. Pehrson in his sad bereavement.

C. W. McKellar is handling a fine line of gardenias, as well as orchids. Both of these he finds a steady call for from the local trade.

The park employees have organized a society for mutual benefit and will send a delegate to Springfield to work in favor of a bill before the State Legislature which will exempt them from discharge by incoming different political parties.

P. J. Hauswirth has been on the sick list for the past week.

H. E. Phillpott, of Winnipeg, Manitoba, Canada, was a visitor this week.

ROBERT JOHNSTONE.

Baltimore.

An Outing.

Thursday, March 9, a number of the local florists, by invitation, spent a most pleasant afternoon and evening with Wm. B. Sands, at Lake Roland. An inspection of the place was made. The roses are just off crop, but the plants are showing up well, and a heavy crop will be on about Easter. A house of Harrisii lilies will be in just about right. We noted a very few diseased plants. Lily of the valley was seen about as good as can be had. Mr. Sands makes a specialty of roses, of which he has seven houses. His other houses are taken up with asparagus, Harrisii lilies, callas, bedding plants, and bulbous stock. The place is heated by steam, supplied by one immense boiler. After the greenhouses were looked over, we were invited to the house, and there all did justice to many good things to eat and drink.

Business Notes.

Business is moving along satisfactorily this week; most all stock is pretty well used up, of which there was a good supply. There was considerable loss last week, which, I think, was largely due to the continued rain during the week. Prices naturally have a downward tendency; they are fairly steady.

JOHN J. PERRY.

Louisville, Ky.

Additional Report on Exhibits.

To get my report of the meeting and exhibits of the Kentucky Society of Florists in last week's issue, it was necessary that I write it the same night as the meeting. As we did not leave the exhibition hall until the "wee sma'" hours, I was much hurried in making out the report; and in my hurry I accidentally lost a sheet of my manuscript with my notes, and by so doing, deprived the following exhibitors of the credit of making displays: John Breitmeyer's Sons, Detroit, Mich., exhibited their beautiful rose La Detroit, and a vase of extra fine snapdragon. Peter Reinberg, Chicago, Ill., had a vase each of Sunrise and Uncle John, his improved Golden Gate. Charles Rayner, Anchorage, Ky., staged some magnificent flowers of Ivory Golden Gate, The Bride, Bridesmaid roses. John E. Haines, Bethlehem, Pa., John E. Haines, a grand red carnation, and the Star of Bethlehem, a deep yellow. Davis Bros. Company, Bloomsburg, Pa., sent Crisis, another good scarlet carnation, and Mary Albert, white. Patten & Co., Tewksbury, Mass., exhibited Mikado, a carnation of the Prosperity type, at the same time very distinct; also the Pink Patten.

A. R. B.

Yellows in Peaches.

A correspondent writes me for advice concerning his orchard of peach trees, which, he says, is showing signs of the yellows. He adds he has been told to dig out and burn all affected trees, but he has faith in Bordeaux mixture, and asks my advice. I answered him privately, as it was not intended as a communication for our columns, but it has been suggested to me that a few words here on the topic would be of general interest. My reply to him was to follow the advice he had received and root out the trees, and as quickly as he could, burning them at once. This is the recognized way, and it is believed to be the only way to act. The yellows is a disease the exact nature of which seems undetermined. Were it simply one of fungus origin connected with the foliage, spraying with Bordeaux mixture would be in order, but the disease, whatever it is, cannot be controlled by sprayings so far attempted.

It has been claimed by some that yellow foliaged evergreens have been brought back to their normal green by applying sulphur to the soil about them, and this is quite probable if fungus in the soil are doing the harm, but peach yellows is not believed to come from this cause.

JOSEPH MEEHAN.

Primula Sinensis var. Stellata.

Unquestionably, this is one of the most beautiful and graceful of primulas for greenhouse or conservatory work. It is a horticultural variety of the Chinese primrose, *P. sinensis*. As a Winter-blooming plant it is a great acquisition, carrying its neat flowers in good condition for some considerable time. The flowers are star-like, arranged in successive whorls radiating from the main flower stalk, giving thus to this starchy primrose quite a lengthened flowering period somewhat similar to that found in the baby primrose, *P. Forbesi*. Other colors than white can now be had in this primula. The foliage is striking, being strong, clean and healthy. This is certainly a most desirable Winter flowering plant.

Glen Cove, L. I.

JOHN F. JOHNSTON.

CLUB AND SOCIETY DOINGS

HARTFORD (CONN.) FLORISTS' CLUB.—The annual meeting of the Florists' Club was held Friday night, March 10, at which time the following officers were elected for the ensuing year: President, J. F. Huss; vice-president, J. F. Coombs; secretary, C. N. Ruedlinger; treasurer, Robert Scrivener. The committee appointed to revise the by-laws made a report, and the by-laws were accepted as revised. Three new members were elected. J. F. COOMBS.



HOUSE OF CYCLAMEN,
Growers, Van Bechove & Bro., Kalamazoo, Mich.

THE PROVIDENCE (R. I.) FLORISTS' CLUB held its regular monthly meeting Thursday of last week. Part of the evening was spent in eulogizing the late Farquhar Macrae, with special remarks by Messrs. Chappell and Macnair. Mr. Hockey, of Pawtucket, was prominent in his opposition to the club lending any help to the proposed greenhouse at the State Experiment Station at Kingstown, deeming it inexpedient for us to mix up in this matter. Messrs. Canning and Macnair touched upon the growing nuisance of "crepe chasing," and it was the sense of



PRIMULA STELLATA.

Photo by John F. Johnston.

the gentlemen present that such conduct by any reputable florist was to be deplored, and it was suggested that some means be sought to protect those florists who were being annoyed by the false pretences of the prominent "chasers." This is a line of business that has especially flourished the past Winter on account of the trade offering no opposition to the offenders, who have therefore grown bold in their pursuit and use any means to corral the business within reach. C. S. MACNAIR.

THE BALTIMORE (MD.) GARDENERS' CLUB held its regular meeting Monday night; it was the largest meeting the club has had for some years. It was also the annual election of officers, with a banquet to follow. But the real thing that brought out so many members was the hot competition between two of the most prominent members for the presidency—P. B. Welsh and F. C. Bauer being the candidates. All the other candidates for the various offices were elected without opposition. The following is the list: President, Philip B. Welsh; vice-president, F. C. Bauer; recording secretary, John J. Perry; financial secretary, George Talbott; treasurer, F. G. Burger; librarian, C. M. Wagner. A number of new members were elected. After the election, T. H. Patterson, chairman of the banquet committee, led the way to the large hall just opposite the meeting room, and there we found an elaborate spread. The toastmaster was E. A. Seidewitz. Speechmaking was indulged in until a late hour. Some of the oldest members of the club pronounced it the most successful evening the organization has ever had. Let the good work go on. If every member will do his part we cannot help having a most satisfactory year. J. J. PERRY.

CHICAGO FLORISTS' CLUB.—The regular meeting of the club was held on Thursday night, March 9. The committee had provided a smoker, which drew a large number of members, and a very enjoyable time was had. A mandolin band and a negro singer rendered a number of fine selections of instrumental and vocal music. The Florists' Club quartette gave several of their usual fine renditions. Humorous stories were told by John P. Degan, W. N. Rudd, and one of the musicians, which were well received. The Lincoln Park greenhouses had on exhibition some fine specimen plants of *Cineraria stellata*; *C. hybrida*, and a cross between these two. The judges awarded the plants honorable mention. The Chicago Carnation Company showed two fine vases of White Lawson and Cardinal, also awarded honorable mention. The judges were E. A. Kanst, W. H. Kidwell, and A. H. Schneider. Very interesting remarks were made by F. F. Bentley and W. N. Rudd on the appropriation bill now before the State Legislature. Mr. Rudd was one of the delegates in attendance at Springfield. He said they had great hopes of the passage of the bill. A motion was passed that a life membership in the club be created, and a committee of three was appointed to consider the matter. It is the intention of the club to use the money derived from the life membership fund in securing a permanent home for its members, including bowling alleys, which shall be kept open at all times where visiting florists can be suitably entertained. About thirty members have signified their intention of joining as life members. All club members are also urged to join the State Florists' Association. It was announced that an exhibition of Easter stock will be held on the evening of March 23. Exhibitors will not be restricted from making sales of stock during the time of the show. Growers will be asked from all parts of the country to display any goods they may have in preparation for Easter sales. R. J.

NEW BEDFORD (MASS.) HORTICULTURAL SOCIETY held its annual dinner on the evening of March 1 at the Mansion House. Among the post-prandial speakers were President William Keith, Thomas J. Gray and John K. M. L. Farquhar, of Boston, John Duff, George A. Hough and Gideon H. Allen. Frank C. Barrows acted as toastmaster. Mr. Keith said the society had doubled its membership the past year. Mr. Gray alluded to the work of several prominent gardeners in the section, and told, with a vein of humor, some stories of horticulturists. Mr. Farquhar's talk was in the line of encouraging gardeners to regain the place they held 50 or 75 years ago in England as outdoor gardeners. He said that Massachusetts is far in advance of other States in horticulture, due largely to the pioneer work of the Massachusetts Horticultural Society. The only awards recognized abroad, he said, are those of that society. What we want to do in Massachusetts is to retain our position, and it is by the interest shown by members of horticultural societies that that can be done.

The change of the fine farms along the coast into beautiful estates by men of wealth is going to have its influence, Mr. Farquhar said. Gardeners are devoting too much time and attention to the greenhouse end of their work and too little to the outdoor work. Gardeners will have to get back to the open ground for their supply of flowers. Landscape architects, engineers who have studied balances of color, lights and shadows, neutral effects and such problems are taking places that the gardeners should be able to fill. Many of them furnish a plan, and when it is worked out the plants will not grow or thrive where the architect has placed them to make up his scheme. The gardener would know from his practical experience with plants where they will grow and where they will not, he knows it by intuition, while the architect produces something on paper that amounts to nothing. The gardener would not plant a willow on a knoll of dry land nor a pine tree in a swamp. These men are taking the best end of the gardener's work out of his hands and the latter should be anxious to get back to his rightful position.

Mr. Hough said: There is one question that has often perplexed me. Why is it that the most successful gardeners in the world are Scotchmen? Undoubtedly it is true that men of other races succeed in the development of plant life, but, within the range of my observation, the sought-for gardeners are Scotchmen. We may find the equals of the Farquhars, the Keiths or of Mr. Murray, or of Mr. Garthley, but we cannot find their superiors. You gardeners are wonderful fellows and now that you have at last produced green carnations I am quite ready to believe of several of you here to-night, as it has been said of Luther Burbank, that, given a strawberry plant and a milk weed you would grow strawberries and cream on one vine.

William F. Turner, of the entertainment committee, announced that on Tuesday evening, March 14, Edward Howe Forbush, who is an ornithologist of the State Board of Agriculture, would give an illustrated lecture on "Birds in Their Relation to Agriculture."

At the April meeting Peter Murray, of Fairhaven, will give a talk on the culture of begonias. Mr. Turner said that questions for the question box should be sent to Mr. Swift. The entertainment committee which had charge of the arrangements for the dinner, consisted of William F. Turner, Frank C. Barrows, Reuben E. Swift, Charles L. Paine and Robert Greenhalge. The table decorations were furnished by Mr. Garthley, Mr. Murray, Mr. Keith and Mr. Woodhouse.

American Carnation Society. Varieties Registered.

By the Lakeview Rose Gardens, Jamestown, N. Y.:
GLADYS, a fine white, with blooms three inches and over, and stem twenty to thirty inches in length. It has never been off crop this season, and scored 87 points at the Buffalo Florists' Club February 22.
ALBERT M. HERR, Secretary.

American Rose Society. Another Special Prize.

An additional special prize is offered for award at the Boston exhibition, March 23 to 26, by A. H. Hews & Co., Incorporated, North Cambridge, Mass., of a silver cup, value \$25, for the best specimen pot-grown rose in the exhibition, ramblers and climbers excluded.
WM. J. STEWART,
Secretary.

NEW YORK FLORISTS' CLUB.—The March meeting of the club held on Monday, the 13th, was, as usual, a very successful one. It was "rose night," but not many exhibits of these flowers were on hand. President Traendly occupied the chair.

Resolutions were read on the death of the mother of Henry Hentz, of Madison, N. J., expressing the club's sympathy, and a copy ordered sent to the bereaved family. J. Austin Shaw, for the outing committee, reported that Glenwood, a Summer resort, had been secured. The date selected for the outing was Wednesday, June 28. The steambot "Isabel" had again been selected. Responses were already generous toward prizes, and advertisements in the program. Everything indicated a successful outing. Mr. O'Mara reported for the committee of awards mentioning the exhibits staged. A vote of thanks was tendered the exhibitors. The following gentlemen were elected members: Daniel Wittpen, Jas. Hutchison, H. Suzuki, R. M. Schuitz, R. C. Pye, Wm. Weber. Prof. W. G. Johnson was proposed for membership.

Mr. O'Mara read the proposed new rules governing exhibits made before the club. These rules were considered seriatim and adopted as a whole. Copies will be printed and distributed to the members at an early date.

The Most Valuable Characteristic IN A ROSE.

The various questions assigned at last meeting, relative to the most valuable characteristic in the rose, the carnation, the chrysanthemum and fern, were replied to. Harry O. May, speaking for the rose, said that he did not think there was any one characteristic in the rose valuable above another. Other things being equal, however, he considered form the most valuable characteristic, but, if the variety was not prolific, it was not profitable for the average man to grow. Other things being equal, the commission man considered the chief characteristic of the rose was its stem. With an exhibition variety, of course, it was different; Beauty was the first characteristic. Dean Hole had said in judging a rose the first requisite was form, petals abundant, good in substance, regularly and gracefully disposed, even, in a circular and symmetrical outline. Next to that came color. The American Rose Society lays great stress on color, giving it 20 points and 15 for form. The stem had a great deal to do with the make-up or a rose. One of the most beautiful roses we have ever had, Mr. May said, had no stem at all, namely, Marechal Niel. Bride and Bridesmaid, notwithstanding their good stem and productiveness, if they did not have form they would not be the popular roses they are to-day.

Robert Simpson, being called on, thought the American Rose Society was about right. He referred to the seedling rose from Mr. Bisset of Washington, an exhibition, which, he said, had good foliage, stem and a fair form, but it lacked color, and to him it would be almost worthless because of that defect. If it had the color of Liberty, say, then it would be a beautiful thing. Liberty was almost predominant in red roses because of its bright, dazzling color. He endorsed the remarks of Mr. May as to the value of form in Bride and Bridesmaid.

Mr. O'Mara, who had propounded the question, said that there was no one characteristic which could be determined for all purposes as the most valuable; if a rose had splendid color and lacked constitution it was not worth anything. Roses that are good for forcing are practically of no service for outdoor work, and vice versa. He cited the case of American Beauty as one of these. He was of the opinion that the most valuable characteristic of a rose, or any other plant, was its constitution, which covered health, robustness of growth, and, in a great sense, productiveness. With the average planter of outdoor roses, if a variety would grow and produce flowers of some kind, that was the quality desired by them. Hermosa, for instance, was no earthly use for indoors, but it was a rose at one time par excellence for the open ground, because it was healthy and produced abundantly. C. P. Strassheim, a comparatively new introduction, was valuable to the average planter, being perfectly healthy and free from insect pests, flowering all the time, practically; it was of great value because of its good constitution. The Baby Rambler rose would be widely planted, because it will grow under the most adverse conditions and produce flowers, all of which was due to its constitution. From that standpoint, constitution, he believed,

the most valuable thing in a rose, valuable to the disseminator because he is able to propagate the variety readily, and is able to sell it cheaply.

Harry May thought these remarks might apply to outdoor roses; but the buyer of flowers in a florist's store did not care a darn about constitution. The color, form and fragrance, as well as length of stem, was what appealed to the average purchaser of a rose bloom.

IN A CARNATION.

John Birnie replied to the question as to the carnation. He spoke in part as follows:

The question put to me is, "What is the most valuable characteristic of the carnation?" I say without hesitation, its keeping or lasting qualities. For of what value is all its other characteristics—color, fragrance, etc., if it go to sleep a few hours after leaving the grower's establishment? That is the specific answer to the question. But I do not consider that the answer would be complete without touching briefly on the cause, or causes, of the carnation going to sleep.

Much has been said, and much has been published in the trade press on this subject, so that it is pretty hard to say anything new; however, the fact remains that some carnations go to sleep, and it is up to those who grow, and those who handle the carnation to find out the cause and apply the remedy.

That the grower himself is responsible, in some cases, cannot be denied. Overfeeding, especially with chemical manures, will put the carnation to sleep, even on the plants. I have seen instances of this. Heavy fumigating has the same effect; allowing inexperienced help to pick the flowers; improper ventilation, keeping the houses too hot, either night or day, and injudicious watering, are some of the causes that the grower is responsible for. Of the causes above mentioned, I think overfeeding is the most common. The keeping qualities are sacrificed in the attempt to get large flowers. Next comes overheating. I read in one of the papers lately that Enchantress gave the best results at 56 or 57 degrees, night temperature. I am sure carnations grown under those conditions must suffer both in strength of stem and keeping qualities. Picking the flowers is also an important matter; some varieties can be left on the plants until fully developed, while others are better when picked before they are quite open. This the grower finds out by studying the varieties he grows. Flowers in which the female organs are abnormal developed are more apt to go to sleep than those without that peculiarity, more especially in Fall and Spring when considerable ventilation is necessary, and the pollen is carried round by the wind, or by insects.

But all the trouble does not rest with the grower, by any means. The commission man has to take his share of the blame. A visit to the average commission store in the morning rush hours will give the grower a jar. There he will see the flowers that he has watched over and cared for for months to the best of his ability, handled in no gentle manner; the flowers that he picked and made haste to get into water, packed as carefully as he could, put the boxes on the express wagon as if they were full of eggs, told the express man that he must be extremely careful, are, in some stores, lying on the counters and under the counters in heaps. Sometimes they may be for hours. If eventually they are put in water, so many are placed in a vase that the flower has no chance to develop; the limit is reached only when the vase will hold no more stems.

That the carnation will recuperate and improve after being taken from the shipping box goes without saying. A case in point happened in our own club some years ago when we met in Elks' Hall. A carnation was sent from near Boston to be judged by our award committee. It was unpacked in the anteroom, taken into the club room and received 85 points. About an hour later one of the committee called the attention of his colleagues to the fact that the flowers were better than when they were passed upon. The committee therefore re-examined the variety and awarded it 87 points. This happening before the advent of the canteen, due weight can be given to the circumstance.

One important matter which does not seem to be fully recognized either by the grower or commission man, is the fact that some carnations are more delicate than others and require far more care, both in packing and in handling. Enchantress is one of these. I believe if flowers of this variety are properly picked, packed and handled, they will stay awake as long as the average carnation bloom. I have kept it in my own sitting room for ten days in good shape. The Marquis was another good flower that had to succumb to rough handling.

The carnation is, no doubt, the most popular flower in commerce at the present time, and will certainly retain that popularity if due care be given to the handling of it. The grower is constantly improving his methods at great expense to himself, as is shown by the improvement in the carnation in the last 15 years. Is the distributor improving his methods at the same rate? Is he as particular about ventilating his store as the grower is about ventilating his greenhouse or flower room? Does he put flowers consigned to him into water as soon as he can after receiving them? Does he pay any attention at all to the temperature of his store? Does he understand that all carnations; in fact, all flowers, require gentle handling? Does he see that his employees handle the flowers as they should be handled? In short, does the average distributor give the same care to the flower as the average grower? Are we still looking, as Mr. Simpson said last "rose night," for some "Moses to lead us out of the land of Egypt?"

IN A FERN.

John Scott answered for the fern. He said:

Before giving an answer to the question, I beg to say that there are so many kinds of ferns that it is impossible to cover the subject in an offhand way. We all know that there are a great many ferns suitable for private collections only; the todays, for instance, that require specially built structures in which to grow them; the adiantums which are too tender for house plants; but there are also many other ferns equally beautiful, such as the gymnogonum and davallias, but they are not adapted for commercial purposes. It is to the commercial fern that I shall confine my answer. To my mind, the most valuable characteristic in a fern is its adaptability to house adornment, which includes its lasting qualities when transferred from the greenhouse to the home. From the grower's and retailer's standpoint, the most valuable characteristic in a fern is its money-making qualities; to be a money-maker it must be a free grower and a free seller, and to be a free seller it must be graceful, symmetrical and a hardy house plant. In fact, it must

have most of the good points of a fern, such as Nephrolepis Scottii has been pronounced to possess by the leading growers and retailers all over this country, and also by the committee of awards of this club.

IN A CHRYSANTHEMUM.

Wm. Duckham was to have replied for the chrysanthemum, but, being absent, Mr. Totty substituted, stating that, to his mind, the most valuable characteristic in the chrysanthemum was its general adaptability; it was everybody's flower, and could be grown equally well under glass as in the open ground. A flower show in New York could not be held without the chrysanthemum, at which exhibition the carnation and rose were only side lines. Mr. May took exception to this statement, claiming that the chrysanthemum was only available for a short period in the year, whereas the rose and carnation were with us practically at all times. Mr. Totty retorted the rose and carnation during chrysanthemum season had to take a back seat. John Birnie characterized the chrysanthemum as a nuisance; its presence in its season was apt to send the carnation and rose grower to the poor house. Mr. O'Mara also had a good word to say for the chrysanthemum, and endorsed Mr. Totty's view that its adaptability formed its chief characteristic. The ability to produce flowers under any condition was also part of that adaptability. He said that probably more church debts had been raised by the chrysanthemum than in any other way; each little town having its own show toward that end.

Robert Kift, of Philadelphia, then read his paper entitled "The Rose in Decorative Art," which was listened to with rapt attention by the members, and a vote of thanks passed to the essayist.

Questions to be answered at the next meeting are: Why are carnation growers more progressive than rose growers? Is floriculture in the United States as far advanced as in Europe? Both being propounded by Mr. O'Mara.

The meeting adjourned at a late hour.

After adjournment a brief social time was indulged in, during which Messrs. Alfred Bunyard, J. B. Nugent and Alex. Wallace rendered songs, which were well received. Professor Breining presided at the piano. Refreshments were served by Mr. Nugent and his committee.

The Exhibition.

The exhibits included a vase of well-grown andribrinum, and a bunch of La Detroit rose from John Breitmeyer's Sons, Detroit, Mich.; a group of Nephrolepis Scottii plants, in five sizes, from John Scott, Brooklyn; a few flowers of the new pink rose of Peter Bisset, Washington, D. C.; and from F. R. Pierson Company, Tarrytown, N. Y., a plant of the new fern Nephrolepis Piersonii elegantissima, and several vases of carnations, among which were Daheim, Variegated Lawson, White Lawson, two nice plants of the rose Mme. Norbert Levasseur, and a vase of blooms of the rose Killarney.

ILLINOIS STATE FLORISTS' ASSOCIATION—

The prospect of securing a State appropriation for experiment work for floriculture under the direction of an advisory committee of the Illinois State Florists' Association, has awakened great enthusiasm in that organization. At a meeting of the Chicago Florists' Club on March 9 thirty new names were added to the already long list of members of the State society. Application to incorporate has been filed. In the endeavor to secure favorable consideration by the State Legislature, the committee in charge has been surprised at the lack of realization of the importance of the greenhouse industry in Illinois. For educational purposes it has issued the following open letter:

By an act approved March 2, 1887, the national government appropriated \$15,000 per annum to each State for the purpose of establishing and maintaining an agricultural experiment station, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture and to promote scientific investigation and experiment respecting the principles and applications of agricultural science."

The Agricultural Experiment Station of Illinois was placed under the direction of the trustees of the State University as a part of the university. From 1887 to 1901 the station was maintained upon the United States fund of \$15,000. Its sphere and its activities were necessarily limited, because the above sum had to be used for salaries, printing four bulletins a year, as required by law, labor supplies, etc. When divided among four or five departments representing great agricultural interests, such as agronomy, animal husbandry, horticulture, dairying together with the necessary investigation in botany, entomology and chemistry relating to these industries, it is a matter of wonder that the stations have done the great work they have. According to the provisions of the law, none of the money can be used for buildings, as it was supposed the States would make the necessary appropriations for them.

Four years ago the various agricultural organizations of the State, realizing that the appropriations received from the Government were inadequate, sought and obtained appropriations. The past two years appropriations were made as follows: Twenty-five thousand dollars for live stock investigations; 25,000 for the soil survey of the State; \$15,000 for dairy investigations; \$10,000 for corn investigations; and \$10,000 for orchard investigations. Each of these appropriations was expended under the direction of an advisory committee of five from each of the following associations: The Illinois Live Stock Breeders' Association, Illinois Farmers' Institute, Illinois Corn Growers' and Illinois Corn Breeders' Associations, Illinois Dairymen's Association and the Illinois State Horticulture Society.

The sums mentioned are specifically appropriated for certain investigations and have been so used. The only reason the florists have not had similar appropriations is because they have not asked for an appropriation for experimental work.

According to the census figures for 1900 there was invested in floriculture in Illinois the sum of \$4,648,056. Of this amount, \$2,095,952 was represented by buildings and \$2,439,163 in land. The wholesale value of the flowers and plants sold in 1899 was \$1,867,855. There was 8,414,641 square feet of glass. In addition to the above figures, which relate to the commercial florists, or those who derive the principal part of their income from the sale of flowers and plants, we find 1,199 gardeners using a total area of 8,744,020 square feet in growing plants.

Greenhouse building firms estimate the amount of greenhouse building material, including structural work, glass, and pipe and heating apparatus, at \$2,000,000 per annum of sales in the city of Chicago alone. Information obtained by builders, through the trade press, from wholesale plantmen and estimates from leading members of the trade, make it certain that the value of investment and the amount of annual output are now 50 per cent. greater than the above quoted figures for 1900. Conservative estimates place the coal consumption of the greenhouses of Illinois at 150,000 tons per annum.

In Cook County we find the glass area of the florists to be 5,855,612 square feet; in Du Page County, 532,680 square feet; Kane, 195,563; Sangamon, 184,240; McLean, 150,265; Will, 110,456; Morgan, 96,000; St. Clair, 95,330; Peoria, 85,509; Lake, 73,487, etc. With few exceptions there is in every county of the State some glass devoted to floriculture, and if we include the glass used in market gardening, the industry is practically universal, so far as the State is concerned. Indeed, no other State has so universal an interest in floriculture as Illinois. The industry is common to the whole State, and if we remember that a portion of the appropriation asked for should be used for experimentation on the home grounds of the State, the fact is established that floriculture is an interest that affects every person who possesses even a few feet of land. From the foregoing it will be seen that the results of investigations will be far reaching.

New York, the only State which equals or surpasses Illinois in commercial floriculture, has provided greenhouses at its two experiment stations at Geneva and Cornell. Many experiments have been carried on for the benefit of this industry, particularly with vegetables under glass. In Illinois, with her great floricultural interests, not a dollar has been specifically appropriated for experimental work along this particular line, while other agricultural interests have been cared for and florists have paid their part of the State taxes without any direct benefit in return.

In Rhode Island an asking has been made of the Legislature for the sum of \$15,000 for greenhouses. They will get it because the florists and gardeners are supporting it. In Illinois there are single establishments with a greater glass area than there was in the whole State of Rhode Island in the census year.

The State of New Hampshire has to-day perhaps the most compact and servicable little range of glass of any State agricultural college and experiment station, costing \$7,000 and built under a State appropriation. Compared with the floricultural industry in Illinois, New Hampshire has not as much glass as Du Page County, to say nothing of Cook County, which surpasses every State in glass area except New York, Pennsylvania, New Jersey and Massachusetts. Is \$10,000 too great a sum for Illinois to put into glass structures?

The lines of work under glass which most likely will be taken up are methods of combating insect and fungus diseases and investigations in the use of commercial fertilizers. This work will be undertaken by the Illinois State Florists' Association, and this committee will certainly see to it that only such problems are investigated as are of the most vital interest to the whole State. The law contemplates a fund of \$10,000 a year to pay all operating expenses, labor, coal, supplies, printing, etc., as well as co-operative experiments carried on away from the experiment station. If an insect or fungus pest appears on ornamental plants anywhere in the State which cannot be readily determined, an investigator should be put to work at it to the end that it may be brought under control for the common good of all the trade. Under the law for orchard investigations almost all the work has been carried on away from the university. No one knows at the present time what this co-operative work will be, but there will necessarily be some such work done, and the appropriation must cover all possible contingencies, especially since there can be no profit in maintaining a range of glass for experimental work, as the work will be largely with diseased plants.

The movement for appropriations is favored by the Illinois State Florists' Association, the Chicago Florists' Club and many other prominent florists of the State, but every florist in the State should co-operate, and this can best be done by urging your Representatives and Senators to vote for the bill. Interview them when they are at home, if possible; otherwise, write them a strong letter. J. C. Vaughan, President Society of American Florists, Chicago.

James Hartshorne, President of the American Carnation Society, Joliet, Ill.
P. J. Hauswirth, State Vice-President (north) Society of American Florists, Chicago.
John Willis, State Vice-President (south) Society of American Florists, Danville, Ill.
The Chicago Florists' Club, by resolution; attest, Robert Johnstone, Secretary.
The Illinois State Florists' Association, W. N. Rudd, chairman pro tem.
George Kuhl, Pekin, Ill.; J. F. Ammann, Edwardsville, Ill.; A. C. Canfield, Springfield, Ill., and many others.

CINCINNATI (O.) FLORISTS' SOCIETY.—Saturday, March 11, was carnation day, and the show was the best ever. The national exhibition at Chicago was larger, but the quality of the flowers shown here was superior. From the Chicago Carnation Company came a wagon load of boxes. The E. G. Hill Company was very much in evidence, with the head of the institution here in person to stage his blooms. From Maryland came My Maryland under the care of John Wilson Weber. Ed. Ruch, of Richmond, Ind., came in with fifty blooms of as handsome Adonis as I have seen in many days. The writer received a couple of boxes of blooms for exhibition, one from W. E. Hall, of Clyde, O., containing forty flowers of his new carnation, named E. G. Gillett, parentage; Prosperity X General Maceo. The color is not brilliant, but is a soft, pretty shade that lights up beautifully, and the stem, foliage, calyx, form, size, substance, etc., are all that can be desired. This variety, in one of the closest contests of seedlings seen in many a day,

scored 85 points. J. E. Haines, of Bethlehem, Pa., sent his new scarlet which looks well; it scored 89 points. This is a smaller flower than Hall's but with a stem like a cane stalk; in fact, I think too stiff to be graceful. Candace, shown by the Indianapolis Flower & Plant Company, is a very pleasing shade of pink, but, I am afraid, is trotting in too fast company. It scored 81 points. My Maryland scored 91 points and captured the S. A. F. bronze medal and the certificate of our society. We require that all seedlings must be shown twice, Fall and Spring, and be judged before they can be certificated. My Maryland, having complied with the rule, was the only seedling carnation that received the society's certificate. And it well deserved the honor. Jessica, a variegated sort, was shown here by Weber & Sons, Oakland, Md., for the first time; it was given 87 points. And now we come to the "Only of Onlys," Witterstaetter's genus. I am not blowing my horn so loudly simply because Richard is a Cincinnati man, but because, without doubt, he has the finest lot of seedling carnations in the United States to-day. You see, I am making this assertion broad; I am covering an immense territory. But he has the goods, and, if necessary, can convince the most skeptical. Aristocrat scored 93 points, receiving the silver medal of the S. A. F. O. H. This variety is pink in color, larger and more beautiful than Mrs. T. W. Lawson ever was, handsomer than Fiancee, and can also be bought for ten or fifteen thousand dollars. Afterglow is another pink; it scored 91 points; "could have had more and not hurt." Dick didn't want me to say this, as you all know how shy he is; but I won't tell you the price on this sort. J. A. Valentine has been named for the gentleman from Denver. This variety is pink also, and scored 87 points. The color is a shade on the order of Enchantress. While on this subject, I want to tell you what my customers think of Enchantress. I sell them one lot, and I tackle them to sell them the second lot. "Oh, no; not that; it won't keep over night for me." Another will say: "Not any; it bruises too much for me and goes to sleep too easily." Another: "You couldn't give me that carnation. I lost one of my best customers by sending a box of Enchantress." And so it goes. It's too bad, for the variety is certainly a fine grower and a beautiful flower; but if you can't sell it—you know the rest.

The following were the prize winners:

Fifty white—First, R. Witterstaetter, with Lady Bountiful; second, Weber & Sons, with My Maryland; third, Chicago Carnation Co., with Lady Bountiful.

Fifty light pink—First, R. Witterstaetter; second, Honaker; third, The E. G. Hill Co., all with Enchantress.

Fifty dark pink—First, R. Witterstaetter, with Aristocrat; second, Chicago Carnation Co., with Mrs. Lawson; third, Honaker, same variety.

Fifty red—First, the E. G. Hill Co.; second, R. Witterstaetter, both with Cardinal; third, Ed. Ruch, with Adonis.

Fifty variegated—First, the E. G. Hill Co.; second, Chicago Carnation Co., both with Mrs. M. A. Patten.

One hundred assorted varieties—First, the E. G. Hill Co.; second, Chicago Carnation Co.; third, J. W. Rodgers.

Best general display—R. Witterstaetter.

Twenty-five seedlings—First, second and third, R. Witterstaetter, with Aristocrat, Afterglow and J. A. Valentine, respectively.

Honaker comes from Lexington, Ky., and from the stock he displayed at the show, you will probably hear from him again. C. C. Murphy had a few seedlings, some of which were quite good. J. A. Peterson made a nice showing of his specialties, begonias, ferns, etc. We did not have as many visitors as we expected. Those present included E. G. Hill, John A. Evans and Ed. Ruch, Richmond, Ind.; D. Honaker, Lexington, Ky.; J. Wilson Weber, Oakland, Md.; Theo. Bock (who was judge), Hamilton, O. Mr. Bock will be presented with a fine pipe and cigar holder by the Cincinnati Florist Society for his services. President George was highly elated over the success of the show.

And, by the way, the Cincinnati Florists' Society voted unanimously to invite the S. A. F. O. H. to hold its twenty-fifth anniversary in Cincinnati; so other cities please sidestep for 1909. E. G. GILLETT.

ST. LOUIS FLORISTS' CLUB.—Our annual rose show was by far one of the finest the club has yet held. The meeting was largely attended by the local florists. Our visitors were: Mr. Brown, of Springfield, Ill., and James S. Wilson, of Vaughan Greenhouses, Western Springs, Ill. Among those who made exhibits were: J. F. Ammann, Edwardsville, Ill., with Mme. Abel Chatenay, Bride, Ivory, Golden Gate and Perle des Jardins. J. F. Wilcox, Council Bluffs, Ia., showed American Beauty, Bride, Bridesmaid, Ivory, Meteor and Mme. Abel Chatenay. A. C. Canfield, Springfield, Ill., had a fine lot of General MacArthur. Peter Reinberg, Chicago, sent Uncle John, Bride, Bridesmaid and Mme. Abel Chatenay. John Breitmeyer's Sons, Detroit, Mich., a fine vase of La Detroit, and a vase of their extra fine snapdragon. W. J. & M. S. Vesey, Fort Wayne, Ind., had Bride, Golden Gate, Bridesmaid, and a nice lot of their new carnation Glendale. E. G. Hill Co., Richmond, Ind., exhibited the new rose Richmond, which attracted the attention of all the rose growers present. Heller Bros. sent two fine vases of Bridesmaid and Bride; these were not for competition. Vaughan's Seed Store, Chicago, had an exhibit of the Baby Rambler in full bloom, in four-inch pots, also a large bunch of the blooms cut. John Hartje, Indianapolis, Ind., showed the fine new pink carnation Candace.

The president appointed James S. Wilson, E. W. Guy, and Frank Fillmore as judges. They made the following report: Twelve American Beauty, first, J. F. Wilcox, he being the only exhibitor in this class.

Twenty-five Bride or Kaiserin Augusta Victoria—J. F. Ammann, first, with The Bride; Messrs. Vesey, second, with same variety. Twenty-five Bridesmaid—Vesey, first; Wilcox, second. Twenty-five Mme. Abel Chatenay—Ammann, first; Wilcox, second. Golden Gate or Ivory—Vesey first with Golden Gate; Wilcox, second, with Ivory. Twenty-five General MacArthur, Liberty or Meteor—A. C. Canfield, second, with MacArthur. First was withheld. Any variety not previously mentioned—Peter Reinberg, first, with Uncle John; John Breitmeyer's Sons, second, with La Detroit.

Exhibits not for competition included: Richmond rose from E. G. Hill Co., very fine, worthy of the club's certificate. Glendale carnation from Vesey, a beautiful variegated variety on the order of Mrs. George M. Bradt; club's certificate. Vaughan's Seed Store, certificate for Baby Rambler rose. The judges voted this one of the finest novelties of the season.

Special mention was made of J. F. Ammann's vase of mixed roses: Heller's Bros.' vase of Bride and Bridesmaid; Breitmeyer's Sons' snapdragon, and John Hartje's carnation Candace.

The club meeting opened promptly at 2 o'clock. The board of trustees submitted a resolution to the effect that the club hold a flower show, which was adopted by full vote.

After adjournment, the members repaired to the Missouri Athletic Club rooms where a lunch had been prepared by the committee. The tables were beautifully decorated with roses and carnations from the show. Fred Ammann acted as toastmaster and called on the following for a few remarks: Otto Koenig, J. J. Eneke, J. S. Wilson, Frank J. Fillmore and Frank Weber. Mr. Ammann read a paper on his recent trip to Chicago. The visitors were shown through the elegant club rooms, and everybody voted this the most pleasant gathering ever held by the Florists' Club.

The next meeting of the club will occur Thursday, April 13; all the members should be present, as the new by-laws and constitution will be adopted. Otto Koenig came in late and reported that an American Beauty had been brought to his home by the stork. Congratulations are in order.

Dr. A. S. Halstead of Belleville, who is president of the new Growers' Club, was a visitor at the meeting for the first time since he left the club a year ago. Frank Weber, in his remarks at the banquet, invited the club to hold one of its Summer outings at his place in Gardenville; by that time the range of new houses will be finished. The invitation was accepted.

Mr. Brown, of Springfield, Ill., who attended the club meeting, was on his way home from Mexico, where he had been spending several weeks looking after big mining interests. ST. PATRICK.

WASHINGTON (D. C.) FLORISTS' CLUB.—The annual meeting of the Florists' Club on the 7th inst. was the most successful one held since the club's organization. The following officers were elected for the ensuing year: President, William F. Gude; vice-president, Charles Henlock; secretary, Peter Bisset; treasurer, Wm. H. Ernst. A good deal of business was transacted, principally pertaining to convention matters. It was decided to encourage amateur gardening among the school children, either by co-operating with the society already organized for that purpose, or independently. There were excellent exhibits of carnations, which were highly appreciated by the members of the club. It was considered as only just to the exhibitors that the public should have an opportunity to see the flowers. President Gude very generously offered one of his store windows for two days, which was accepted, and, from the number of people who called to see them, and the questions they asked, it was quite evident that the notice of the exhibition in the daily papers had been read. The following is a list of the growers who sent the exhibits: F. R. Pierson Co., Tarrytown, N. Y., a vase of each of the following varieties: Variegated Lawson, Dahnheim, White Lawson; John N. May, Summit, N. J., The Bride; J. L. Dillon, Bloomsburg, Pa., Crisis; H. Weber & Sons, Oakland, Md., My Maryland; Guttman & Weber, New York, Victory; W. J. Palmer & Son, Lancaster, N. Y., Red Lawton; A. B. Davis & Son, Purcellville, Va., Red Sport; John E. Haines, Bethlehem, Pa., J. E. Haines and Bethlehem; The Cottage Gardens Company, Queens, N. Y., Robert Craig, Lieut. Peary, Octoroon, Ethel Ward; J. R. Freeman, Washington, D. C., Mrs. Thos. W. Lawson; Alex. B. Garden, Washington, D. C., Enchantress, Mrs. Thos. W. Lawson and Flamingo; F. H. Kramer, Washington, D. C., F. H. Kramer. The secretary was requested to thank the exhibitors and to send to those out of town the newspaper clippings.

The annual banquet to be given in the near future promises to be a great success. At the conclusion of business President Gude, in a few choice words, presented Secretary Bisset with a handsome bread tray, suitably inscribed, as a token of good will and of the esteem in which he is held by all the members of the club. M. C.

THE MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY held its regular meeting in Madison, N. J., March 8. The president appointed a committee to go over the schedule in anticipation of our next flower show, and draft a set of improvement-suggestions for consideration at next meeting. It was decided that our next meeting should be a rose and carnation night. It looks like a success. We are promised quite a number of novelties in both; in addition, the boys are to stage something in the way of specials. Our treasurer, William Chariton, has been ill for the past six weeks; we miss him very much, and hope he will be around in a few days. E. R.

CARNATIONS		GOOD, STRONG CUTTINGS	
Bill.....	100	1000	
Lawson.....	\$1 00	\$10 00	
White Lawson.....	1 75	15 00	
Blamingo.....	6 00		
Prosperity.....	2 00	15 00	
Janley.....	2 00	15 00	
Loosevelt.....	1 50		
Apollo.....	1 50		

HAS. T. DARLING, Stony Brook, N. Y.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Clean, healthy stock, from 2 1/4 in. pots. Henry Melclair, best early commercial yellow to date, comes in with Lager, but far superior to that variety; easy doer; height four feet, incurved, no keeper and slipper and should become as popular in early yellow as Ivory has been for white. Price \$5.00 per 100.

Per 100		Per 100	
Wm. Duckham.....	\$5.00	Glory of Pacific.....	\$3.00
Dr. Eoguard.....	5.00	Polly Rose.....	3.00
Edw. Dean.....	4.00	Bonnaffon.....	3.00
Allice Byron.....	4.00	Jones.....	3.00
Timothy Eaton.....	4.00	Col. D. Appleton.....	3.00
Henry.....	4.00	Peter Key.....	3.00
Pink Ivory.....	4.00	Merry Christmas.....	3.00
Philadelphia.....	4.00		

H. W. FIELD, Northampton, Mass.
Mention the Florists' Exchange when writing.

Chrysanthemums

Out of 2 1/4 inch pots.

HEALTHY STOCK.

Robinson, Polly Rose, Glory of Pacific, Jerome Jones, Bonnaffon, Mrs. Hayes, Sunshine, Ivory, Whildin, Black Hawk, Chamberlain, Sanders, \$2.00 per 100.

Cash with Order from Unknown Parties.
FREDERICK MARQUARDT, Middle Village, L. I., N. Y.
Mention the Florists' Exchange when writing.

BARGAINS

These are a few of the attractive offers contained in our price list. Send for a copy of it. Use printed stationery. We send it only to the trade.

ROSES

FIELD-GROWN, No. 1 GRADE. Budded Plants marked (b). Price, \$10.00 per 100; \$90.00 per 1000

Osprice, Caroline Marnesse, Crimson Rambler, Champion of the World, Dorothy Perkins, Duke of Edinburgh (b), Francois Levet, Gen. Jacqueminot (b), Gloire de Margottin (b), Jules Margottin, La France, La Reine, Magna Charta, Mme. Gabriel Luizet (b), Oskmont (b), Peony (b), Ulrich Brunner (b).

Many additional varieties offered in price list.

SHRUBS AND VINES

Strong field-grown stock.		Per 100	
Berberry Thunbergii, 18 to 24 in., bushy.....	\$6 50		
Clematis Henry II, Jackmanni, etc., 2 years.....	15 00		
Cornus Elegans, 3 ft.....	12 00		
Deutzia Gracilis, 18 to 24 in., bushy.....	6 00		
" " Pride of Rochester, 2 to 3 ft., strong.....	6 00		
Elder, Golden, 3 to 4 ft.....	7 00		
Fringe, Purple, 3 to 4 ft.....	7 00		
Japan Quince, 2 to 3 ft., very bushy.....	4 50		
Spiraea Billardi, 2 to 3 ft., strong.....	6 00		
Van Houtte, 2 to 3 ft., strong.....	7 00		

ORNAMENTAL TREES

Beech, Purple-leaved, 3 to 4 ft.....	30 00
Cornus Florida, 2 ft.....	10 00
Maple, Ash-leaved (Negundo), 8 to 10 ft.....	8 00
" Norway, 2 to 2 1/2 in., about 10 ft.....	25 00
(These are a little crooked, but splendid value at this price.)	
" Silver, 10 to 12 ft.....	14 00
" " 8 to 10 ft.....	10 00
" Weir's Cut-leaved, 10 to 12 ft.....	16 00
" " 8 to 10 ft.....	14 00
Oaks, English and Turkey, 6 to 8 ft.....	26 00
Poplar, Bollesna, 8 to 10 ft.....	20 00
" Carolina and Lombardy, 10 to 12 ft.....	12 00
Willow, Laurel-leaved, 8 to 10 ft.....	15 00

Send for complete price list.

JACKSON & PERKINS CO., Newark, New York

Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION

Price, \$3.50
A. T. DE LA MARE PTG. & PUB. CO. LTD.
25 QUANE STREET, NEW YORK



Lily of the Valley, \$2.00.

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Boston Market.....	\$2.50 per 100	The Queen.....	\$3.00 per 100	Mrs. Joost.....	\$2.50 per 100
Gov. Wolcott.....	3.00	Geo. H. Crane.....	2.50	Morning Glory.....	2.50
Indianapolis.....	4.00	Glacier.....	2.50	Free. McKinley.....	2.50
Mrs. E. A. Nelson.....	2.50	Lorna.....	2.50	White Lawson.....	7.00
Mrs. Lawson.....	2.50	Florida.....	2.50	Cardinal.....	12.00

Send for prices on large lots

Dracena Indivisa, 2 1/2 in.....	\$3.00 per 100	SMALL PALMS, from 2 1/2 in. pots	
" " 3 in.....	4.00	Kentia Belmoreana.....	\$6.00 per 100
Boston Ferns, 2 1/2 in.....	3.00	Areca Lutescens.....	4.00
Assorted Ferns, for dishes.....	3.00	Latania Borbonica.....	3.00
		Coccos Weddeliana.....	8.00

The Storrs & Harrison Co. PAINESVILLE OHIO

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New Edition.

UNDER THE DIRECTION AND GENERAL EDITORSHIP OF

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The Retail Trade

CUT FOLIAGE.—There may be no really new departure in regard to the use of foliage for florists' work, says a writer in Horticultural Advertiser, England, yet there is no doubt that it has come more generally in use than formerly, and those who know what to grow and can do it successfully find it remunerative. I may further add that there are some things on which no value is placed, and find their way to the rubbish heap, which might be turned to profitable account. It is well known to many that when the fronds of Davallia Mariesi (or bullata) ripen off they change to a bronzy yellow; taken just at the right time I have known these to make a shilling per dozen, or a penny for each frond. It is not all the fronds which ripen off well, but if they did it would be more profitable than selling the imported fern balls while they have green fronds. Among the latest things I have seen is the use of stephanotis leaves; when ripening off, these change to a bright yellow, and in February, when there is no ordinary Autumnal tinted foliage, they are very acceptable. Between flowers on a groundwork of Mahonia aquifolia, of the dark bronzy shade, they give a good relief. The colored vine leaves have long been used for dessert dishes, etc. During the last season I saw these used as a groundwork for wreaths and other floral arrangements. Croton leaves are now extensively used. For table decorations they

The Rose in Decorative Art.

(Read by Robert Kite, Philadelphia, Pa., before the New York Florists' Club, Monday Evening, March 13, 1905.)

When Dame Nature stirs in the early Spring and arouses into life the snowdrops and crocuses, which in turn are followed by their more pretentious kinsmen, the gaudy tulips, the daffodils and stately hyacinths, she pauses awhile to admire, and then actively and vigorously her work goes on, until the whole landscape is pictured with her beautiful art. But still she presses forward, not satisfied, until at last the crowning glory of her work appears—the rose, the queen of flowers.

It is her masterpiece. She has endowed it with every virtue; it is most beautiful in form; it has almost all the colors of the rainbow, while its fragrance is most delightful. She guards it carefully, providing even an armor of thorns to protect it.

"Tis sweet to dare the tangled fence,
To cull the timid floweret thence."

Such is a brief description of the flower we honor to-night.

Almost the entire history of the roses of commerce, as we know them to-day, covers but the short period since 1870. Prior to that time, the camellia was the favored flower, and choice blossoms brought fabulous prices.

As soon, however, as the rose made its appearance the camellia was doomed. Bon Silene, Safrano, Mare-

blossoms, the styles have changed; the close, formal designs have been succeeded by the more graceful and natural arrangements that display the beauty of stem and foliage, as well as flower.

In the garden Dame Nature arranges her flowers in the most beautiful manner conceivable. The branches of the climbers bend over gracefully with their wealth of bloom, all, even the smallest blossom, uniting into a perfect whole; while the bush varieties throw up their single buds, or clusters, that stand from out their wealth of foliage in perfect symmetry. Such effects can be produced in the ballroom or elaborate house functions, the growing roses being simulated and made to climb in any direction, and when covered with blossoms making a capital counterfeit and beautiful decoration.

For the wedding, that most joyful time of life, there is no flower that more fittingly graces the occasion than the rose. In the church, the altar, the chancel, the windows, the pew ends; in fact, at every available point, there should be seen this most beautiful flower. The bride and her maids should carry them, and under a bower, surrounded on every hand by beautiful roses, she should stand to receive the good wishes of her guests.

The beautiful custom of greeting the debutante upon her entrance into society with the choicest flowers has grown into prominence the past decade, and offers great opportunities for the artist. Probably no other occasion brings together such an assortment of flowers as are to be found among the hundreds of clusters that grace the receptions of the popular young buds. The rose is also found in the front ranks here, as 75 per cent. of the bouquets are sure to be our favorite flower.

The arrangement of flowers for the dining table is an art in itself, and the rose easily leads in popularity for this purpose. The formal plateau, or mound, has given place to the more graceful arrangement in low bowls, below, or high receptacles that carry the flowers above the line of vision. When loosely arranged in such vases all the beauty and grace of the flower is brought out. They should not be so crowded as to lose their individuality, but enough should be used to get the color effect, and their quality and freshness should always be such as to leave nothing to be desired.

Tall vases of long-stemmed American Beauty are still very popular, and certainly the most effective of all roses, whether used in groups of palms, on the banquet table, or in other of the many places that seem ideal for them, and for which there seems to be almost no substitute.

The use of flowers to carry the voice of condolence to bereaved ones is a beautiful custom, and one, let us hope, that will never die out. It can hardly be classed as decorative art, yet for those who have the final disposition of flowers as they are placed before the public to-day, it is a very important branch of the business, and as much care and attention must be given, and as skillful treatment in the arrangement, as for any other occasion. Here, as elsewhere, simplicity has asserted itself, and the cluster of long-stemmed roses and the wreath, the least formal of all designs, are fast growing in popularity.

If we can believe the accounts of the extravagant use of roses thousands of years ago, and they appear to be authentic, our most extensive decorations are as nothing when compared to these elaborate displays, as much as \$100,000 having been spent by Nero for roses for one entertainment. What they sold for by the dozen may be conjectured from the following, copied from Mr. Parsons' book on "The Rose," published in 1847.

"If the Egyptians cultivated roses for transportation to Rome during the Winter, they must have had very extensive plantations for the purpose.

"The exportation could not have been of loose flowers or they would have been withered long before the termination of the voyage. Neither could it have been of rooted plants in a dormant state, as nurserymen now send them to every part of the world, because the Romans had at that time no means of causing them to vegetate and bloom in Winter. On the contrary the cultivators at Alexandria and Memphis must of necessity have sent them away in the vases and boxes in which they had planted them with that object and when they were just beginning to break from the bud, in order that they might arrive in Rome at the moment they commenced expanding.

"At that remote period, when navigation was far behind its present state of perfection, the voyage from the mouth of the Nile to the coast of Italy occupied more than twenty days. When this long voyage is considered, and also the quantity of roses required by the Romans to enwreath their crowns and garlands, to cover their tables and couches and the pavements of their festive halls, and to surround the urns which contained the ashes of their dead, it is evident that the Egyptians, who traded in roses in order to satisfy the prodigality of the Romans, would be compelled to keep in readiness a certain number of vessels to be laden with boxes or vases of rose plants so prepared as not to bloom before their delivery at Rome.

"The cost of roses thus delivered in Rome must have been immense, but we do not find a single passage in ancient authors which can give any light on this point; they only tell us that nothing for the gratification of luxury was considered too costly for the wealthy Roman citizen."

What would rose bushes in bud, such as we know them to-day, look like after a three weeks' journey by sea? They must have been impregnated with the same blood as Burbank's fadeless flower; in fact, we are led to wonder if the roses of that day were roses at all, or at least such as we know them now.

It appears to have been the custom at that period to use flowers most lavishly, and particularly for dinners, and all social occasions, and for the dead. In addition to the decorations for the table the couches upon which the guests reclined were elaborately decked with roses, as were also the floors of the rooms Cleopatra covered the floors of her dining rooms with



DECORATION FOR LUNCHEON GIVEN TO PRINCE FUSHIMI, AT BELLEVUE-STRATFORD HOTEL, PHILADELPHIA

Work of the William Graham Co., Philadelphia

have now been in use for many years, particularly by those who have grown them, and have them at command when flowers are scarce. They are now in more general demand, and best samples of highly colored leaves make good prices in market. The broad leaves are often used for the foundations of various funeral designs. Chaplets made of these, with a cluster of white flowers at the base, may be given as an example; and when well made they are very effective. While about croton foliage, I may say that I have seen perfect plants cut off close to the pots to be used in floral arrangements when tops from older plants would have served the purpose equally well. This has seemed rather extravagant. There are some sorts, such as Laingii, elegantissimus, angustifolius, and other narrow-leaved sorts which make terminal growths, which are almost devoid of green, and these tops may be cut, and used most effectively for table decorations. I have used the narrow-leaved golden tops for bouquets with good effect. Of course it is only for special work that these tops can be used, and to send them to market for chance trade would be a mistake.

I might add that the galax, which the Americans have found so useful, was introduced into this country (England) over 100 years ago.

Cut Ferns Are Not Keeping Well.

HINSDALE, MASS.—The fern dealers in town, says a local daily, are complaining that the past Winter has been a hard one for the keeping of the ferns, large numbers of them which have been kept in cold storage having spoiled. Whether the fault lies in the condition of the stock when picked or in the conditions existing during the Summer's growth is not known.

chal Niel and Lamarque, small and insignificant as, with the exception of the Marechal Niel, they appeared, they soon relegated the old favorite to the background, and finally to oblivion.

How I remember the weary hunt in the early '80s from one greenhouse to another over the Hoboken hills, gathering in a few Bon Silene and Safrano here and there, and possibly a few "Jacks," which were then being forced in small quantities, but which soon took the lead as the most popular rose. Two or three hundred buds was then considered a large stock, and well worth the one or two days' journey necessary to get them.

The decorative features of the flower did not count for much until the long-stemmed hybrids made their appearance. The advent of Ernst Asmus's "Glory of Paris" (Anna de Diesbach) made a great sensation; this was followed by the Ulrich Brunner and Mrs. John Laing. Then came the new teas, the Catherine Mermet, followed by the Bride and Bridesmaid.

It was, however, that queen of roses, the American Beauty, introduced to the public by the Field Bros. of Washington, that placed the rose in the van as a decorative flower. Now no important decoration appears complete without a liberal representation of this variety to add dignity to the occasion.

To a certain degree, Dame Fashion must be reckoned with in floral art, as there are fashions in flowers and floral devices, the same as in dress.

Peter Henderson's book on the art of bouquet making and the general arrangement of cut flowers was the recognized authority of his period. The close, compact form presenting solid masses of flowers without foliage was then the fashion, and the details of arrangement are minutely described in this work. Since then, with the great strides made in the cultivation of flowers and the production of long-stemmed

rose leaves to a considerable depth, and over them placed a fine net, so that her guests might tread the floral carpet without inconvenience. It was the custom to cover the beds of the guests with roses, and some who slept under layers of rose petals were annoyed beyond measure if any of them should start to curl, indicating they were not fresh. I fear that some of their descendants are among our patrons of to-day.

The rose has many rivals as a decorative flower. The chrysanthemum, the carnation, the lily, and even that butterfly of fashion, the orchid, are all in the race for popularity. But the rose, endowed with so many points of excellence, is still the one great favorite.

One thing more may be said of the rose that can hardly apply to any other flower, and that is, its changing beauty. As a bud we admire it, and as it slowly develops until half blown, it grows more and more beautiful, until finally, when fully expanded, it takes another form and gradually fades away.

"Oh, there is nought in nature bright,
Where roses do not shed their light!
And when, at length, with pale decline
Its florid beauties fade and pine,
Sweet as in youth, its balmy breath
Diffuses odors e'en in death."

An Impression of the Inaugural Ball Decorations.

In speaking of the recent inaugural ball, at which he was present as a guest, Frederick W. Kelsey, nurseryman, New York, says:

"The description of the decorations for the inaugural ball in last week's Florists' Exchange was well expressed, but no word picture could convey the artistic beauty of those decorations as they appeared during the festivities that evening. The beautiful effects produced were a constant delight to the thousands of guests present, and called forth frequent commendation. Both in arrangement and detail the decorations bore evidence of a master hand in charge, and it is doubtful if a more artistic and effective floral embellishment on so large a scale has ever before been accomplished in this country. The difficulties to overcome in producing this result were the better appreciated by those who had previously seen the interior of that "barracks of a building" known as the Pension Office. It has been described as an architectural monstrosity, 400 feet long, "and about 400 feet high." Although this large and unattractive room is said to have been planned of that size for the purpose of providing a room sufficiently large to accommodate the ten or twelve thousand persons attending the inaugural ball, a more barn-like unattractive place for such a function, before taken in hand by the decorators, could hardly be imagined.

"The transformation accomplished by the Messrs. Small was therefore all the more noticeable, and adds another object lesson in proof of the position in high art now attained in the florists' decorative profession.

"The charm of the floral and foliage effects was accentuated by the brilliant electric illumination, making the vast space from floor to ceiling and in front of the balconies resplendent with light, and thus bringing into bold relief the large evergreens and palms; and the colored muslin, so effective, as the background.

"When I entered the room with friends about 9 o'clock, just prior to the grand march, the scene both from the floor and the balcony impressed me as being one of the most beautiful in harmonious decorative effect that I had ever seen, and this was frequently remarked by many during the evening. The sight of such a bower of beauty is not only 'a joy forever' to those who witnessed it, but reflects the greatest credit upon the authors and upon the craft and profession generally as well."

Tales of a Traveler. Southern California.

JOSEPH WOLFSKILL—THE GRACE HILL NURSERIES.—These are situated a couple of miles out from the business section of the city and have now been in existence only about three years. The visitor to this concern will find a very modern place, and one which will compare favorably with the places of colder climates. He will find a place substantially built and one that is run much as an eastern place is handled. "Never do to-day what can be put off until to-morrow," is the general motto of the grower in California; but here the motto is reversed and the work is kept up. The place is clean and orderly and "cleanliness is the first principle of good growing" is the rule which applies here, as it should apply everywhere. The firm is very fortunate in having H. W. Turner, who was formerly with the Gasser Company, of Cleveland, Ohio, as its foreman, and to Mr. Turner is due a great deal of credit. The place comprises, as a whole, about 60,000 feet of glass and is divided into thirteen different houses. Carnations are the main crop, although roses and other stock get their share of attention. The place was built some two years ago, and Mr. Turner personally had charge of the construction. California redwood has been used largely for building material, and the houses are constructed substantially, iron being used largely in construction. Large glass, with redwood sash bars, makes up the roof, and for ventilators Hippard's Standard is the machine which does the work. The heating is done by two boilers made by the Pennsylvania Boiler Works, and crude oil, which is both abundant and cheap, is the fuel.

About 25,000 carnations are grown, and nearly all the varieties are of eastern production, Mrs.

Thomas W. Lawson, Enchantress, Harlowarden, Nelson Fisher, Mrs. Patten, Lady Bountiful, The Belle, White Lawson, Estelle, Queen Louise and Governor Roosevelt being planted as leading varieties; Flamingo, Lillian Pond, Governor Hinsdale, Indianapolis, Apollo and Prosperity ending up with those who also ran. Nelson Fisher and Mrs. Patten are both very well liked, and these will be more heavily planted, while Enchantress, which does so well all through the State, will retain its place as the leading light pink. A batch of red Lawson has been grown from a sport which came here, and here, as elsewhere, it is lacking the color which a really good scarlet carnation should have.

In the rose section American Beauty are by far the best, and they are very well grown, indeed, but Mme. Abel Chatenay is also very popular, and it will be more extensively grown. Bride, Bridesmaid, Perle des Jardins and Golden Gate complete the list of roses. Two new houses are now under way which will be planted to American Beauty the coming season.

A nice lot of Harrisii lilies and a house of ferns were looking well. Adiantum Croweanum is a bit dark in color to be popular here, and A. cuneatum is very well grown and is relied upon for cut fronds. Some Boston ferns and a few Personi make up the list, but Nephrolepis Scottii is to be added. There is a fern sold here in Los Angeles under the name Nephrolepis philippinense, or the Philippine fern, which resembles Scottii somewhat, but has not the qualities which make Scottii a leader among the new ones.

The lath house planted to Asparagus plumosus is a very interesting one, and the plant does well with this treatment. The house is neatly kept and the stringing is carefully attended to, and in all respects the plant is grown as it is in the East, aside from the fact that it has no heat beyond that which nature supplies, and is protected from the sun by lath. The firm intends opening shortly a very fine store at 210 West Second street, which will be run as an eastern store is, and here Mr. Wolfskill will sell his own product. The quality of the stock produced by this firm, in comparison with the one-side stock which all the growers handle, should make this, in the near future, the best florist store of Southern California.

W. R. PIERSON.

Vagaries of Some Hardy Plants.

By HERBERT GREENSMITH

To thoroughly understand the vagaries of some plants is quite an art. One must be pretty well versed in his subject to overcome them, and the best of us may and do make failures, and often very carelessly too. I think, sometimes, plants have their whims or peculiarities somewhat like individuals, and are very sensitive to touch, or are very particular when they are touched, and thus resent the kindly influence of many an ardent and enthusiastic plant or flower lover in an effort to move them around to more congenial surroundings, or to establish them in more permanent positions. No matter how careful and painstaking we may be, our efforts, apparently, result in disastrous failure. I say apparently. Some years ago, toward Autumn, I was being shown over a collection of hardy plants, and coming in our wanderings across a blank space, with no other signs but a written label to indicate where a batch of nice plants should have been growing and showing promise of coming beauty by large, prominent, elder-like foliage, and by their rather tall ascending flower spikes, I was told by my host and guide a very sympathetic story as to how he had imported half a dozen or a dozen plants, I don't just remember which at present, of a beautiful Japanese plant, and how beautiful and healthy it grew in pots, how careful he was of them and how nicely he had planted and nurtured them, giving them every care and attention he knew or thought of—and, alas, they had died—and allow me to say here, my host was one of the most intelligent plantmen I know of. But in his anxiety to perpetuate his plants, two important points after planting, if not before planting, had been overlooked, viz, shade and moisture. Many a choice plant is nourished with great care until planting out season arrives, and is then put out in the open, regardless of its nature to shift for itself, and so it proved in this case. The Spring and Summer months had not been over-productive of moisture, otherwise the plants would have made some growth unless planted exceedingly late; but the hot Summer sun would have scorched or burned the foliage. All around these plants, in luxuriant growth and freely flowering, were asters, boltonias, sunflowers, heleniums, rudbeckias and other Fall flowers. But the foliage of these plants had gradually died off, and the plants accounted dead. I stooped down, drew away with my hands the dirt from where the plants had been put, and, to the delight of my surprised host, exposed the fleshy tubers and roots of his plants, quietly resting and awaiting a succeeding favorable Spring season to restore them to life and beauty, which it did, but in a more favorable situation. They had raised their protest; their wants had been studied, and, given a more favorable situation, they rewarded in an amazing manner their owner the following season.

I think sometimes a little more explicit information regarding new plants as to habitat and natural surroundings in their native haunts would be of great help to a planter, for with many people a plant is a plant; and how many plants are ruthlessly destroyed by being torn away from their native haunts and planted in garden or border irrespective of location, position or soil! Whether they grow out in the open pastures or the shady woodland, they get no differen-

tiation in planting; are gathered at any season, and all must go into the open nursery row, bed or open border. I was called away last Fall to examine a hardy border. The complainant said her plants were all dying. On arrival I found she had been out collecting, and had brought in hundreds of *Gentiana crinita*, *Lobelia cardinalis* and several other Fall flowers, and in order to make room for them, they were so beautiful, nearly everything else had to be moved. Consequently, a mass of dead and dying flower stems met my gaze. Plants will not stand this treatment, and the plants in question, as well as the ones previously mentioned, the *acteas* and *cimicifugas*, will resent this treatment nearly every time. In nature, or in a wild state, they are found growing mostly in shady or partly shaded places, and in such they reach the acme, shall I say, of perfection. No; for, if properly treated, they improve with cultivation. But the best two patches of *Lobelia cardinalis* I ever saw were growing, one on the borders or outskirts of a bush lot, and the other in a semi-open spot in the deep woods, and in both instances the plants had been covered over by a running stream of water during the Winter and Spring months. And what a delightful treat to suddenly come upon such a blaze of color. In one instance, the plants could be counted by the hundreds. The *cimicifugas* don't take kindly to fully exposed situations, while the *lobelias* make admirable plants.

Another good early Spring-flowering plant, which is always eagerly sought for, and yet never seen to perfection outside of its boggy or muddy haunts, is *Caltha palustris*. It will live in a somewhat clayey soil and make a fair showing in Spring. But a very near neighbor to it, *Oenothera fruticosa*, makes one of our best and most desirable hardy plants, and for a long season is a veritable shower of golden yellow. And, rather strange to say, it can be moved with impunity at almost any time with but slight precautions.

Anemoneopsis grandiflora, a very rare plant in this country, but exceedingly pretty when in bloom, very similar in appearance to the anemone, but with a rather purplish lilac tinge running through its pearly white, stiff flower petals, which are almost purple on the under side, is another plant which delights in a rather shady position and a deep, rich soil. With me it always seemed to resent removal, and its large, rich, thick, shining leaves always burned if exposed during the middle of the day to the hot rays of our burning Summer sun. But, given a right position, it is a very delightful plant, both in foliage and flower.

Romneya Coulteri has proved a conundrum to many very good gardeners, and my first effort with it also was a failure. But failure only makes me more determined to succeed with a plant, and this one I can now handle with ease. Its requirements are simple. It is not what we might call a good, hardy plant for the masses; neither do I think it would prove hardy much beyond Philadelphia, and not always there without protection. But I have pulled it through with good protection, and had it flower profusely, while the following Winter, with only a sash over it, it succumbed. So it is best to be on the safe side, and just before hard freezing comes, dig it up and pot and store it in a cool house during Winter. In digging, many short pieces of root will be broken off, which, if properly taken care of, and cut up into pieces two or three inches in length, and laid into a pan in a mixture of peat and sandy soil, will soon come up and make plants suitable for three-inch pots by the end or middle of May. But don't try to rush them, as they resist heat in the early stages. The roots on the older plant may also be shortened up for this purpose. The plant can also be raised from seed. If sown in the Fall, if the seed is fresh, it may come the next Spring, or it may not come till the second Spring. Patience is a virtue in raising *Romneya Coulteri*, or California poppy from seed. Propagation by root cuttings is by far the cheaper and easier method.

Many other hardy plants have their similar vagaries and wants which must be studied. *Mertensia virginiana*, or our native Virginia cowslip (why it should get such a name is beyond my comprehension) is one of our most beautiful native plants, universally admired for its lovely, large, bluish-grey foliage and its handsome clusters of sky-blue flowers, turning to rose with age. It is seldom sent for from the nursery until it has commenced to throw out its leaves and push up its flower stems; the result is it soon dies down and often disappears entirely. On account of its early, rapid Spring growth and flowering season, it ought to be planted in the Fall, or, at least, as early in the Spring as it can be got into the ground. The same rule applies to *Papaver orientale*. How much disappointment would be avoided if we could only induce people to plant this flaming colored flower in the Fall instead! A large number of the plants sent out by nurserymen in the late Spring, although pot grown, prove a failure and disappointment. In many cases the check suffered by the late removal sends the plant to its period of rest and, many people believe, its death. But this is a mistake. The oriental poppy has two periods or growing seasons—the early Spring and the early and late Fall months—with a period of rest during July and August, and, as they commence to make their growth again in September, this time on is the best for their removal. Oriental poppies may be easily raised from seed sown in the open ground in very early Spring, and allowed to remain in their seed rows without disturbance until Fall, when they may be dug and potted up at will. By this time the majority, with good cultivation, will be suitable for three-inch pots. Choice, new and rare varieties, though, must be raised by division and by root cuttings, the smallest pieces of which will quickly grow and make plants. I usually use pieces from two to three inches in length, and either insert them in sandy soil or pot up at once into 2 or 2½-inch pots.

Review of the Market

NEW YORK. While there has been a general weakening in prices of nearly all kinds of flowers, it has been somewhat easier to clear out from day to day than it was last week, owing chiefly to the milder weather, which has brought out the street men in full force. Values on roses of all varieties have taken a decided drop; these flowers are increasing in numbers every day, and the call for the best grades is the weakest.

Fancy carnations are quite plentiful, and they are now going at such low figures that the ordinary grades are a somewhat difficult proposition; one dollar a hundred is considered a good average. The supply of bulbous stock has shortened up a little, still there is enough to fill all requirements, and with the exception of Golden Spur and Von Sion narcissus, all is going below the \$1 mark. Lilies are coming in very heavily, and while good long-stemmed blooms command a fair price, the short-stemmed stock is realizing \$2 and \$3 per 100.

Lily of the valley goes very slowly, and violets still remain at last week's figures, with occasional drops to \$1 per 1,000 in order to make a clearance.

Smilax, asparagus and adiantum, when of good quality, are finding a fairly good call, but poor stock is hard to move.

BOSTON.—During the first few days of the Lenten season flowers of all kinds were at a standstill, but Friday and Saturday prices dropped and there was a general clearance. Saturday everything was cleaned up pretty well. Perhaps roses have shown the biggest slump of any, from \$1 to \$3 now being the average price for the general run. American Beauty have remained at a fairly good figure, the best grades yet bringing \$6 per dozen. Liberty bring fairly good prices; and a few Meteor are seen.

Carnations have also dropped in price, running now from \$1 to \$3; extra fancies bring about \$4 to \$5.

Bulbous stock remains practically about the same. Lilies are very plentiful. Violets are druggly, 300 for \$1 being the average for the best grades. Adiantum is scarce. Sweet peas are plentiful; and lily of the valley remains unchanged.

J. W. D.

CHICAGO.—Business since the advent of the Lenten season has been dull, and large quantities of stock are left over each day. Prices are considerably weaker. Some fears are entertained that the present weather will force out stock too early for Easter, causing a shortage in some lines at that time. American Beauty are now in ample supply, the demand not being very heavy locally. Inferior grades are not moving as freely as could be desired. Bride and Bridesmaid are becoming more plentiful each week, and, in some instances, the quality has deteriorated somewhat. Prices have dropped a little. Fancy grades can be bought for the same figures that medium stock was bringing a few days ago. The supply of carnations is accumulating, and, in some instances, sales are made on hold-over flowers at what might be called Summer prices. Shipping trade has been very good this week, and it is hoped that the market will shortly take an upward turn. Violets do not seem so abundant as a week ago; a great many inferior flowers are seen around, selling for little or nothing.

Harrisii lilies are also becoming more plentiful as the season advances; the demand for them at present is not very heavy. Callas have been in over supply for the past six weeks, selling at low figures. Tulips are abundant, and the demand holds firm; prices are about the same as last week.

R. J.

INDIANAPOLIS.—Early last week local florists were facing a huge amount of stock, and fears were entertained that much would go to waste. Heavy funeral work for nearly a week turned the market in the opposite direction, so that the week ended with no surplus on hand. Out-of-town retail trade has been unusually brisk for March; a number of decorations have helped the retailers rid themselves of plants.

Select roses are not plentiful, though there seems to be an over-supply of seconds. The best Bridesmaid, Bride and Golden Gate wholesale at \$8 per 100; seconds, \$4 per 100. Mme. Abel Chateaux, of unusual quality, are being received; some of them with three-foot stems bring \$2 per 100. Select 36-inch American Beauty realize \$4.50; 24 to 30-inch, \$3; 10 to 12-inch, \$1 per dozen.

Carnations are not so plentiful as they were last week, but no change in price is noted. Many of the inferior grades are used for openings in the surrounding towns.

Tulips, jonquils, narcissus and Roman hyacinths sell at \$3 to \$4 per 100, and may be had in any quantity. Sweet peas are readily bought by the retailer at \$1 a 100. Harrisii lilies and callas are very plentiful at \$1.25 to \$1.75 a dozen. Marie Louise violets are abundant at 35c. to 75c.; Lady Hume Campbell (hot-bed grown) sell at 20c. to 30c. per 100; Princess of Wales, extra quality bring 75c. per 100.

I. E.

WASHINGTON, D. C.—The advent of Lent has not so far made any material difference to business; on the contrary, it has been quite brisk, and the call for both cut flowers and plants has been above the average. American Beauty sell at from \$7 to \$15; Liberty, \$4 to \$7; Kaiserin Augusta Victoria, Souvenir du President Carnot, Bride, Ivory and Golden Gate, \$2 to \$3; Meteor and Bridesmaid, \$2.50 to \$4 per dozen; Ilac, \$3 to \$5 per dozen sprays. Carnations are quite plentiful; the best stock brings from \$1.25 to \$2.50 per dozen. Lily of the valley is selling well at \$1.50 to \$2.50 per dozen. New York violets bring \$1.50 to \$2 and singles from \$1 to \$1.50 per 100. Sweet peas sell readily at 75c. to \$1 per bunch, white and pink being the favorite colors. Mignonette, 50c. to 75c.; pansies, 25c. to 35c. per dozen. There is a good demand for cut tulips and Dutch hyacinths, which bring 50c. to \$1 per dozen; narcissus goes at 75c. to \$1 and Roman hyacinths, 50c. to 75c. per dozen.

The sale of plants has increased considerably this week. Azaleas in 6 to 7-inch pots brought \$2 to \$3.50 each; those in 4-inch pots, \$1 each. There is a demand for genistas at \$1.50 to \$2.50 each. Pougainvilleas, in 5 and 6-inch pots, sell well at \$2 to \$4 each. The demand for Nephrolepis bostonensis and Piersoni has been heavy. Dutch hyacinth in 6-inch pans, bring 50c. to 75c. each; pansies, in pans, 2c. to 50c.; and violets, in pans, 50c. to \$1 each.

M. C.

ST. LOUIS.—The cut flower trade has been rather dull since Lent began. As stock in all lines is very cheap, the retailers are making fine window displays. The growers are all busy preparing for Easter. Some are afraid that stock intended for that festival will come in ahead of time, especially Harrisii lilies, which are coming on quite fast. The past week the commission houses were again crowded with extra fine quality carnations, roses, violets, and bulbous stock. Prices are down on all first-class flowers. Extra choice stock in carnations, such as Enchantress, Mrs. T. W. Lawson, Prosperity, and Governor Wolcott, went for \$3 per 100; next choice, \$2; and common stock from \$1 to 75c. per 100. Violets are still coming in in quantities, and all the retailers lay in a big supply each morning. The price is 30c. in 100 lots; 20c. and 25c. per 100 in 1,000 lots for the finest quality; short-stemmed stock goes as low as 15c. per 100.

Bulbous flowers are not so plentiful this week, although in ample supply for the demand. Sweet peas are good sellers, at 60c. per 100 for short stems and 75c. for long. On all greens the prices are as quoted last week, with plenty of everything for the demand. Smilax sells well, while other stock goes slow.

ST. PATRICK.

PITTSBURG.—The first week in Lent has checked out flower trade somewhat, and there has not been any too much funeral work to make things lively. The weather is also against the plant and seed trade, being more like Winter than Spring, the thermometer down to 20 degrees. Prices remain pretty stiff, although the Lenten season is on. Good roses bring from 10c. up. American Beauty at from \$6 to \$8 per dozen, for the best, are in fair demand. Carnations bring \$3 for good ones. Tulips and daffodils realize \$3. Callas are coming in strong; 10c. is the price. Harrisii bring about the same. In the plant line, shipping trade is fair, but home trade is rather slow.

E. C. R.

CINCINNATI.—Cold Spring weather is now with us; and stock will undoubtedly pile up somewhat. Business remains fair; prices being as reported last week.

E. E. G.

MILWAUKEE.—The advent of Lent has not as yet had any noticeable effect on business. The past week it was exceptionally brisk; stock in nearly all varieties moving at profitable figures. The only superfluous items are callas and Lilium longiflorum. They move slowly, even at very low figures. Good tulips and daffodils are scarce just now, as most growers are holding them back for Easter. The quality of roses and carnations is exceptionally fine, and the demand keeps pace with the supply. Violets are plentiful and but few are left over, except those of inferior quality.

The outlook for the Easter supply is bright. There will be plenty of all seasonable stock.

RASTUS.

BUFFALO, N. Y.—Last week the opening of a new theater called for some effects, and an automobile exhibition induced some demand. With several Spring store openings this week, an otherwise Lenten stagnation is somewhat held off. In instances, some forcing of sales in certain articles is attempted.

VIDI.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

NEW ROCHELLE, N. Y.—Robert Patterson has opened a branch store on Main street.

LOWELL, MASS.—Arthur Mellor formerly with Patten, and George Saunders will open a florist store at 30 Prescott street.

WHITE PLAINS, N. Y.—Miss Annie Conroy, of Fall River, Mass., will open a retail flower store in the Rehill Building, 52 Railroad avenue.

COLORADO CITY, COL.—Edwin P. Pierce, formerly gardener at the Printers' Home, has engaged in the florist business, commercially, at 209 North Eighth street.

BUFFALO, N. Y.—The J. H. Rebstock Co., florists, has been incorporated; capital, \$10,000. Incorporators: J. H. Rebstock, E. G. Rebstock and A. W. Hickman, all of Buffalo, N. Y.

PALMER, MASS.—C. A. & L. A. Royce have bought the Randall place on North Main street, and will erect greenhouses on the property. They have for some time conducted a similar business on Maple street, but have been cramped for room. Their new purchase will give them ample area for the extension of their business, which has been very successful.

EAST ORANGE, N. J.—The Purdue flower and seed business at 373 Main street has been purchased by Henry J. Reichy and George Simpson, who will continue it at the old stand under the firm name of Reichy & Simpson. Mr. Reichy has been an employe of the establishment for the past twenty-five or thirty years. Mr. Simpson was employed by George Purdue for a number of years. Miss Lewis, who has been connected with the establishment as office manager for ten years past, will remain with the new firm.

McKEESPORT, PA.—Application has been made by J. H. Orth, John Hodgson, Joseph M. Johnston, and Chas. T. Moore, for the incorporation of the McKeesport Floral Company under the laws of the State of Pennsylvania, to operate greenhouses, etc. The capital is \$50,000. The interests of J. H. Orth, who has been in the business in this city for a number of years, are taken over. The greenhouses located at Versailles will be removed to the Seitz farm on the State road, where a large tract has been purchased. New and larger houses will be constructed. The store now conducted by Mr. Orth on Fifth avenue will be continued and Mr. Orth will be in charge.

BOWLING.

NEW YORK.—On Monday afternoon the undernoted scores were rolled:

J. A. Manda	163	128	142
W. H. Siebrecht	169	179	125
P. Kessler	172	131	164
S. S. Butterfield	131	100	100
A. J. Guttman	138	155	179
J. A. Shaw	154	142	102
T. J. Lang	154	114	...
F. C. Holt	114	151	...
J. Donaldson	136	...	...
J. T. Scott	146	...	...
C. Lenker	81	...	...
J. Pepper	96	...	...

MADISON, N. J.—Our great bowling event for the pair of boots donated by E. W. Holt came off March 8. Among out-of-town visitors were E. W. Holt, R. W. Lucas and nephew. Excitement ran high. Most of the boys had sandals and some brought special balls from home. Much of this paraphernalia was left in the alley in disgust when the result became known. Some even hinted that the scores had been tampered with. The most serenely happy man I saw was C. H. Totty, he having rolled the highest score. He said it was one of the most satisfactory games he ever played.

Below is the score. Individual count:

Totty	178	201-379
Reagan	101	71-172
Frazier	148	203-351
Lucas	167	191-358
Stein	90	71-161
Schultz	180	163-342
Duckham	120	116-236
Heermans	160	184-344
Koch	181	139-320
Jones	146	193-339
J. Lucas	178	132-301
Shannon	182	171-353
Herrington	119	114-233

Totty got the boots, and Stein got the booby prize, a pair of miniature boots. He declares he would not trade with Totty. In a test of individual scores, Herrington lost to Duckham, and he had to blow the crowd to a box of cigars.

EDW. REAGAN, Secretary.

FIRMS WHO ARE BUILDING.

PLAINFIELD, N. J.—W. H. Forristel, Bellview Avenue Nursery, is building a carnation house, 21x50 feet.

McKEESPORT, PA.—The McKeesport Floral Company will build two new greenhouses, each 25x300 feet, for roses and carnations.

BUSINESS DIFFICULTIES.

PHILADELPHIA, PA.—The creditors of William L. Rementer have filed a petition to have him adjudged an involuntary bankrupt. The claims set out in the petition were: Henry F. Michell Company, \$75.64; George C. Watson, \$61.60; Keller Pottery Company, \$73.50.

ORANGE, N. J.—Robert McArthur, formerly with Eugene Delano on Orange Mountain, has been engaged by Colonel Daniel S. Lamont, Milbrook, N. Y., and has removed there.

Wm. Rennie, who has returned from California, was the guest of Peter Duff at Brighthurst for a day or two last week.

J. B. D.

RICHMOND, IND.—E. Gurney Hill talked to the students of Earlham College in chapel on March 8 on the profession and work of the florist. He illustrated his speech by different specimens of roses and carnations.



All That Use It Say "There Is Only One"

McGEE, GEARY & CO., of Salem, Mass. write:—"Send a bag of the Fumigating Kind; inquired in Boston for it; found they did not keep it. Said theirs was better, but yours has been recommended to us. Right it."
WE SAY:—"Now, don't let them fool you—buy direct; you are jobber, retailer and consumer with us; there is no middle profit man on our line. Seedmen don't like us over much."

A FREE trial five-pound bag will cost you nothing more than the express charges on it. The trial bag will prove our assertion that it is the most effective, cleanest and quickest, as well as the cheapest (10 cents per 100-foot house) article to fumigate with. All aphids killed in one night—our booklet tells of it; we mail one on request.

THE H. A. STOOHOFF COMPANY, Tobacco Powder Hobbyists, 116, 117, 118 West Street, New York

Mention the Florists' Exchange when writing.

ROOTED Carnation Cuttings

Good, clean stock, well rooted. Per 100 Per 1000

White Cloud \$1.00, Norway 1.00, Prosperity 1.25

ROOTED CARNATIONS

Table listing various carnation varieties like White Lawson, Judge Hinsdale, etc. with prices per 100 and 1000.

GRAFTED ROSES FINE STOCK

We are hooking orders now for delivery as desired. Bride, Bridesmaid, Golden Gate, etc.

VERBENAS

CHRYSANTHEMUMS

MISCELLANEOUS

Geranium, Cope's Pet, White Cap, P. Pauline, S. Gurney, L. Bonnet, etc.

THE AMERICAN CARNATION

CARNATIONS

Chrysanthemums and Violets. Rooted Cuttings. Send for List

Rooted Cuttings

The Queen, best white... \$2.25 per 100. Mrs. Patten, best variegated 4.00

MY MARYLAND

Was the Sensation of the Chicago Exhibition. Easily outranks any other White.

H. WEBER & SONS

CARNATIONS

Table listing carnation varieties like Lady Bountiful, The Belle, etc. with prices per 100 and 1000.

CERANIUMS

Rooted Cuttings, at \$2.00 per 100. In the following varieties: A. Ricard, S. A. Nutt, Marvel, etc.

A Long Story Cut Short. Your ad. in the Spring Edition of THE FLORISTS' EXCHANGE, March 25, will bring you your share of the going business.

The Beautiful Pink Carnation CANDACE

Dissemination 1904, \$2.00 per doz., \$12.00 per 100. \$100.00 per 1000. Early-commercial.

500,000 VERBENAS

THE LARGEST AND FINEST STOCK IN THE COUNTRY. Perfectly Healthy

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000

300,000 CARNATIONS

Table listing carnation varieties like Mrs. Patten, Judge Hinsdale, etc. with prices per 100 and 1000.

60,000 GRAFTED ROSES

THE FINEST CROWN. Orders booked now for delivery in April, May and June

LIBERTY Rose pots, \$12.00 per 100; 3/4 inch pots, \$18.00 per 100

J. L. DILLON

CARNATIONS

ROOTED CUTTINGS

Table listing carnation varieties like PHYLIS, CHICAGO WHITE, etc. with prices per 100 and 1000.

ROSES

Rooted Cuttings

Table listing rose varieties like CHATENAY, UNCLE JOHN, etc. with prices per 100 and 1000.

2 1/2 Pot Plants

Table listing rose varieties like RICHMOND, ROSALIND ORR, etc. with prices per 100 and 1000.

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone, 2846 Central. PETER REINBERG, 51 Wabash Av., Chicago

WE CAN SHIP WHITE LAWSON

AT ONCE

We sent this variety out last season; it has given general satisfaction.

Our Stock Is Pure White

Rooted Cuttings, \$7.00 per 100; \$60.00 per 1000. Special prices on larger quantities. Send for our Catalogue.

CHICAGO CARNATION COMPANY

James Hartshorn, Mgr. JOLIET, ILL. Mention the Florists' Exchange when writing.

NOW READY

WHITE LAWSON

Flamingo Nelson Fisher Crusader
\$6.00 per 100; \$50.00 per 1000.

The Three Grand New CHRYSANTHEMUMS,
MAJESTIC, ADELIA and MADONNA

Rooted Cuttings, \$3.00 per doz.; \$15.00 per 100. From 2 in. pots, \$20.00 per 100.

Three Fine SNAPDRAGONS,

Our GIANT PINK, a Grand WHITE and a Fine YELLOW
\$6.00 per \$100; \$50.00 per 1000.

The Fine New PINK ROSE **LA DETROIT**
2½ in. pots, \$8.00 per 100; \$75.00 per 1000.

The New Red **GENERAL MACARTHUR**

2½ in. pots, \$8.00 per 100; \$75.00 per 1000.

JOHN BREITMEYER'S SONS, DETROIT, MICH.

Mention the Florists' Exchange when writing.

Carnation Richmond Gem

Established in 2½ in. pots, \$10.00 per 100. Will have other good varieties later.

ROSES

2 years old, in 4 in. pots; also Roses in 2½ in. pots.

Geraniums, Heliotropes, Salvias, Ferns, Asparagus Plumosus, Asparagus Sprengeri, Chrysanthemums, Petunias, and a general line of Miscellaneous Stock. Send for List.

The National Plant Co., Dayton, O.

Mention the Florists' Exchange when writing.

ENCHANTRESS

The most popular and best paying of all CARNATIONS. Large stock of rooted cuttings now ready.

\$3.00 per 100; \$25.00 per 1000.

White Lawson, - \$6.00 \$50.00
The Queen, - 2.50 20.00
Cardinal, from 2 in. pots, 12.00 ready now.

LARCHMONT NURSERIES
LARCHMONT, N. Y.

Mention the Florists' Exchange when writing.

\$12.00 per 100
\$100.00 per 1000
250 at 1000 rate

VICTORY

TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

	Per 100	Per 1000		Per 100	Per 1000
WHITE LAWSON	\$8.00	\$60.00	HARRY FENN	\$2.00	\$20.00
NELSON FISHER	6.00	60.00	GOETHE, light pink	2.00	20.00
MRS. PATTEN	6.00	60.00	GENEVIEVE LORD	1.50	15.00
ENCHANTRESS	3.50	30.00	MANLEY	3.00	25.00
PROSPERITY	2.50	20.00	MACEO	1.50	15.00
THE BELLE	6.00	60.00	CERVERA	1.50	15.00
LADY BOUNTIFUL	6.00	60.00	LAWSON	2.00	15.00

5 per cent. discount for cash with order. Send your orders early.

ALEXANDER J. GUTTMAN

52 W. 29th St., New York City.

Mention the Florists' Exchange when writing.

Carnation Cuttings

Guaranteed in every particular
Enchantress..... \$3.00 per 100
Mrs. M. A. Patten..... 5.50 "
Queen Louise..... 1.50 "
Mrs. Joost..... 1.25 "
Cash with order from unknown parties

T. KRAFT, 135 Johnson Ave., Newark, N. J.
Mention the Florists' Exchange when writing.

**J. D. THOMPSON
CARNATION CO.
JOLIET, ILL.**

Carnations Our Specialty

Mention the Florists' Exchange when writing.

FINE CARNATIONS

Brasard and Butter Varieties. Queen Louise and Genevieve Lord, rooted cuttings, \$1.00 per 100; 2½ in. pots, \$2.50 per 100. Mrs. Fisher, for Summer bloom, 2½ in. strong, \$2.50 per 100; rooted cuttings, \$1.00 per 100. Salvia, Clara Bedman, and Silverpot, \$1.00 per 100. Dracena Indivisa, will make fine vase plants, 4 in., \$10.00 per 100. Crimson Rambler Rose, fine plants, 2½ in. pots, \$4.00 per 100. Cash with order.

WM. KEIR, PIKESVILLE, MD.
Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Mention the Florists' Exchange when writing.

The Lewis Conservatories MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist

Mention the Florists' Exchange when writing.

Strong Rooted Carnation Cuttings

	Per 1000		Per 1000
Enchantress.....	\$25.00	Adonis.....	\$20.00
Lord.....	9.00	Flamingo.....	40.00
Lawson.....	12.00	Estelle.....	18.00
Gov. Wolcott.....	12.00	Bradt.....	12.00
Flora Hill.....	9.00	Mrs. M. A. Patten.....	40.00
Boston Market.....	20.00	Peru.....	7.00
		Queen Louise.....	7.00

SOL GARLAND, Des Plaines, Ill.
Mention the Florists' Exchange when writing.

Carnations

F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

Carnations SELECTED ROOTED CUTTINGS

CLEAN, HEALTHY STOCK FROM SAND AND SOIL

	per 100	1000
Enchantress.....	\$ 3.50	\$ 30.00
Queen.....	2.50	20.00
Lawson.....	2.00	15.00
Wolcott.....	2.00	15.00
Queen Louise.....	2.00	15.00
Genevieve Lord.....	1.25	10.00
Floriana.....	1.50	12.50
Florence.....	12.00	100.00

Careful packing. Stock guaranteed satisfactory in every way.

ROBERT C. PYE, NYACK N. Y.
Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

	per 100	1,000
WHITE.....	\$2.50	\$20.00
Queen.....	2.00	15.00
Queen Louise.....	2.00	15.00
PINK.....	3.00	25.00
Lawson.....	2.00	15.00
Fair Maid.....	2.00	15.00
CRIMSON—Harlowarden.....	2.50	20.00
VARIEGATED.....	4.00	40.00
Judge Hinadale.....	2.00	15.00
Prosperity.....	2.00	15.00

S. J. REUTER, Westerly, R. I.
Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Cold Frames.

No greenhouse establishment, large or small, should work without cold frame. The larger the place, the more your stock will there be needing a treatment only made possible by the use of outdoor frames. The smaller the place, the more need is there for cold frames to afford room for the overflow of the under-size and overworked greenhouses. Cold frame need not necessarily be hidden away or kept out of sight and made to do duty in some unhandy, far away corner of the backyard. They should at all times be as cleanly kept, neat and trim a feature of the place, and as interesting and attractive to visitors and patrons as any of the greenhouses, and by no means a disfigurement to a well-appointed florist establishment.

A substantially constructed wood frame, made out of two-inch planking will serve for a number of years, will cost little, may be moved about, lowered or raised as the growing plants require it, and is, for various other reasons, to be preferred to frames built of brick or cement. Heating outdoor frames by steam or hot-water pipes from a greenhouse makes away with its usefulness as a cold frame, and does not bring it up to that of a greenhouse. The idea, therefore, does not hurt the eye by its brilliancy. If one has the heat, the pipes and the sashes, one might as well go it a few dollars more and build a sash house, which is less trying on the spinal column and easier to manage than a steam-heated pit. It is the cold frame pure and simple, which pays a high percentage on the money invested in its construction, than any other floriculture edifice.

The Use of Cold Frames.

A well regulated cold frame can be made to do good service at all seasons of the year, and its uses are manifold. It is a fit place for all kinds of bedding plants and also for young cut flower stock in the early Spring. Here, as in no other place, can the plants be properly hardened off and weaned to conditions peculiar to open air culture. There is no better place for young carnation in pots, and similar plants, awaiting their turn to be benched. All plants, requiring special treatment and protection against a scorching sun, drenching rain and dry or cold winds, can conveniently be taken care of and carried safely through the Summer in cold frames and still be given the great benefit of an open air existence. Plants, having been raised in the field and potted up in early Fall for the greenhouse, will be all the better if going first through a preparatory course in the cold frame. Hardy and half hardy deciduous and evergreen plants, wanted for forcing in Midwinter and early Spring, will fare better in a cold frame than in any other place; and many of our perennials and biennials intended for the plant trade in Spring such as hollyhocks, daisies, pansies, etc. are best carried through the Winter in such frames. And for starting the seeds of many of the best half-hardy annuals in April, no place will give better results than the seed bed under the glass of a cold frame.

Hotbeds.

It seems the old, primitive way of constructing a hotbed and heating it by fermentation offers little chance for any genius bent on improvement to try his hand. In fact, instead of being improved upon, the average hotbed to be seen nowadays is far behind those in use fifty years ago. They are neither as substantially built, nor as cleanly and neatly kept. That is because hotbeds are now only temporary makeshifts, while the hotbed of years gone by was in most cases a permanent fixture and, indeed, an institution of vast importance. Although a great many of us to-day manage nicely without hotbeds at all, there is probably none ready to deny that plants can be grown in them to perfection, that some kinds of seeds that give us any amount of trouble in the greenhouse, germinate and grow like the very weeds in hotbeds, and that any difficult, risky and obstinate tuber, root or plant, too good to throw away, often readily yields to hotbed conditions, which frequently proved the means of salvation to many a high-priced specimen.

Now, the nearer we approach Spring, the more room we need for our stock, daily being added to and rapidly filling every space available. The retail grower need not be reminded of this fact. If he is one of many, he will shove his plants closer and tighter together, build shelves over them and try to raise plants under the benches—all in an effort to create room. If he is wise, he will start a row of hotbeds. They will at once relieve the congestion in the houses. This is the time to start them.

CHRYSANTHEMUMS

Ready from Soil. All Good Stock, in Fine Condition

White		White		Pink		Yellow		Yellow	
Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000
Estelle	\$2.00	White Mayflower	\$2.00	Cobbolt, new	\$3.00	Monrovia	\$2.00	Wm. Thirkell, new	\$3.00
Kalb	2.00	Ivory	2.00	J. A. Baltour, new	3.00	Yellow Eaton	2.50	W. T. Pockett, new	3.00
Robinson	2.00	Jerome Jones	2.00	Perrin	2.00	Major Bonnafton	2.00	Kimberly, new	3.00
Polly Rose	2.00			Marie Liger	2.00	Col. D. Appleton	2.00	H. S. Vallis, new	3.00
Wanamaker	2.00	Duckham	3.00	Lavender Queen	2.00	Yellow Jones	2.00	Omega	2.00
Eaton	2.50	Pacific	2.00	Richardson	2.00	Yellow Mayflower	2.00		
White Bonnafton	2.00	Pink Ivory	2.00	Murdoch	2.00	Golden Beauty	2.00	Oakland	2.50
Snow Queen	2.00	M. Newell	2.00	Vivian-Morel	2.00	Mourner	2.00	M. Paul Labbie	2.50
Harry Plumridge, new	3.00	J. K. Shaw	2.00	Yellow-October Sunshine	2.00	Golden Wedding	2.50	Black Hawk	2.50

Write for Prices on Chrysanthemums in Larger Quantities

CARNATIONS ALL IN FINE CONDITION WELL ROOTED

PINK		RED		WHITE	
Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000
Mrs. T. W. Lawson	\$1.50	Chicago	2.00	Flora Hill	1.00
Guardian Angel	1.00	Adonis	2.50	White Cloud	1.25
				Her Majesty	1.50
				Harlowarden	2.00

ROSES

Young Stock, ready to ship, out of 2 1/2 in. pots. Fine, Healthy Stock.

	Per 100	Per 1000		Per 100	Per 1000
Bride	\$3.00	\$25.00	Golden Gate	\$3.00	\$25.00
Bridesmaid	3.00	25.00	Time. Abel Chatenay	3.00	25.00
Meteor	4.00	30.00	Kaiserin	4.00	35.00

WIETOR BROS., 51-53 Wabash Avenue, CHICAGO, ILL.

Mention the Florists' Exchange when writing.

The Making of a Hotbed.

If hotbed sashes of the standard size, three feet wide and six long, are used, four of these sashes to one frame will be found to be most convenient. They can be easily handled and moved about. A foot and a half of fresh horse manure, intermixed with leaves from the trees, if they can be had, will, from now on, furnish all the heat needed. If the beds are to be made on a hillside, or on a piece of sloping ground, well drained, an excavation a foot deep could be made for the manure. If this cannot be done, the bed of manure will have to be built up on the surface of the ground. In such a case the heat generated from the manure will not last as long or be felt as uniformly in the frame as if the lay of the land would permit the bed to be sunk a foot or more below the surface. Horse manure, fresh and not burned, but just beginning to heat, is to be used. If it is very coarse and strawy, a little more will have to be taken. It will then be all the better; the heat will be less intense, but longer lasting. Tree leaves mixed in with the manure have the same effect, and, where they are easily obtained, may be used all alone without any manure, if a bed only moderately warmed, but lasting for months, is wanted. Horse manure, new and fresh from the stables, should first be piled up into a conical heap, allowed to spend its greatest heat, and be forked over once before it is built up for the hotbed. An even layer, 18 to 20 inches high and a foot or so longer and wider than the frame, will be sufficient at this time of the year. After this bed of manure is well trodden down and made firm, and the surface made even and level, the frame is placed on top of it, banked up all around on its outer sides with manure or soil, and the bed is now closed by placing the sashes on the frame. Of course, the sashes should fit the frame exactly, should rest on crossbars and be given plenty of play room, to render the opening and shutting of the bed rapid and easy work. In a day or two after the bed has been set up the temperature in the manure will begin to rise again, when the bed should be opened a few inches to allow the first rank heat to escape; but as soon as the temperature has fallen to 75 or 80 degrees, remaining stationary at about that point for a day or longer, the soil may go in. A layer of three or four inches of good, mellow garden soil nicely sifted and firmed down, after being evenly spread and leveled, will make a good bed for the starting of seeds, better for most of those kinds which have now to be sown than any place to be found in the most modern and costliest glass house.

Taking Care of Hotbeds.

Instead of sowing the various kinds of seeds broadcast over squares marked off in the hotbed, it will be found more convenient to sow them in drills, running from the lower to the upper side of the bed, or parallel with the length of the sashes. If the drills are a few inches apart and correctly labeled, the cleaning and weeding and the taking out of the seedlings, ready for being potted up, becomes an easy matter. Seed boxes and trays with bulbs and roots may also find a place in the hotbed, as also plants in pots needing encouragement or a moist and steady bottom heat. The temperature in the frame is regulated by raising or sliding down the sashes, little in cold

weather, more on nice days, but every day some, if only for an hour, as long as the fermentation of the manure supplies heat. Fresh air must be admitted when the seedlings are above ground, every day and, should the weather permit it, also all night. In very cold and rough weather the warmest part of the day must be chosen for any work requiring the opening of the beds, such as the sowing of seeds, taking out plants, weeding or watering.

A hotbed in full operation needs watching, and it will be found to be a good plan, and a much safer one, to entrust the management of a row of hotbeds to one reliable and level-headed person on the place than to let every one of the entire crew have a hand in it; one depending on the other for an early opening of the hotbeds on bright, sunny days, or the closing of them, when the wind has suddenly shifted to an icy norther, or a cold night sets in before anyone remembers the wide open sashes. Few growers can afford to run a risk of this kind, because such a neglect would probably mean the loss of thousands of plants, and sometimes the total ruin of most valuable stock. When the days and nights become warm and Spring is with us, the danger from this source is greatly lessened. Sashes may be opened wide early in the morning, and, perhaps, even left open all night. Later on the sashes can be taken off entirely, the bed by that time being a cold frame rather than a hotbed. The sashes are now only needed occasionally as a protection against too heavy rains.

Annuals for Florists.

Some of the annuals and biennials suitable for the bedding plant trade, can best be sold when in full bloom, and must, therefore, be started quite early. If the seeds of lobelias, torenias, begonias, pansies, daisies, salvias, snapdragons, verbenas and a few others were sown in the beginning of the new year, as advised at the time, the plants should be beyond their first transplanting and soon ready for their final shift. Some of these may be large enough to be worked up for a four-inch pot culture. It pays to have that kind of stock when the plant trade is on; if well grown, bushy and compact and in full bloom, any number of the plants can be sold at good prices. Suitable for this purpose are dwarf snapdragons, petunias, daisies, begonias, salvias and Phlox Drummondii nana compacta. They yield a larger profit than any of the more expensive regular greenhouse plants.

Many varieties of the common garden annuals and biennials are valuable for the florists' own flower trade, furnishing any quantity of desirable material for cutting during the Summer months. The best of these are mignonette, candytuft, alyssum, wallflower, stocks, asters, galliardia, centaurea, snapdragons, carnations and single dahlias. The first sowings of these should now be made, to be followed by others in May and June. Cosmos, also coming under this head, need not be sown until the last week of April, or even later.

All the varieties of bedding annuals, profitable to handle by florists, should now be started, if not already in boxes or pots. The last week of March and the first part of April is the right time to sow the seeds of nicotiana, single dahlias, ageratum, petunia, aster, browallia, celosia, marguerite carnations and Chi-

nese pinks. For the grower's own use, all these will do just as well, if coming out of flats at planting time; but not so with our customers. Most of these are inexperienced, and to some of them the work of planting out is something new—the first attempts in an effort to embellish the grounds of a newly acquired own home. Plants coming out of pots will invariably give better satisfaction, and, then, there are two reasons why we should sell all bedding plants out of pots rather than flats, both of them more weighty than the foregoing: twice as many plants can be sold out of pots (and they bring double the price) than plants out of flats. Pansies are sold in clumps out of frames. This is the leading kind in all this class, and enormous numbers are handled every Spring. Next to pansies come asters, salvias, lobelias and petunias, great numbers of these finding their way into the gardens of the people. The other varieties are of minor importance. FRED W. TIMME.

Rooted Carnation Cuttings

	Per 100
Flamingo, scarlet	\$6.00
Albatross, white	5.00
Enchantress	3.00
Queen, white	3.00
Boston Market, white	3.00
Queen Louise	2.00
Lawson	2.00
J. H. Manley, scarlet	2.00
Challenger	2.00

Write for prices on large lots, 5 per cent. discount for cash with order. Northport, Long Island, N.Y. JAMES D. COCKCROFT, Mention the Florists' Exchange when writing.

CARNATIONS

	Per 100		Per 1000
Harlowarden	\$3.00	Flora Hill	\$2.50
crimson	2.00	Prosperity	2.00
Harry Fann	2.00	Gny. Wolcott	2.00
Enchantress	4.00	O. H. Crane	3.00
Fair Maid	2.00	Challenger	2.00
Alpine Glow, very tree	1.50	T. W. Lawson	3.00
Queen Louise	1.50	Francesa Joost	1.00
Mrs. Fisher, for field blooming, from 1 1/2 in. pots, well established	1.50	Wm. Scott	1.00

Exceptionally healthy and well rootd. 10 per cent. off by the thousand. HANSEN & LUNDSTED, Passaic, N. J. Mention the Florists' Exchange when writing.

RED SPORT CARNATION

The great "bread and butter", holly-berry pink. Early and continuous, sure crop for Christmas, never splits, strong healthy grower, 2 1/2 to 3 in. flower on a long wiry stem that well supports the blooms; an easy doer and an all around money maker. 'Nough said. Price, immediate delivery, 12 for \$1.50; 25 for \$2.50; 50 for \$4.00, all postpaid. \$35.00 per 100; \$50.00 per 1000.

Queen Louise The standard white, strong healthy, well rooted stock \$1.25 per 100, postpaid; \$10.00 per 1000. We Guarantee Satisfaction.

A. B. DAVIS & SON, Carulation Specialists, Purcellville, Va. Mention the Florists' Exchange when writing.

RED LAWSON SPORT FROM MRS. THOS. W. LAWSON

Identical in every way except color, which is a bright red. You will make no mistake in purchasing this one, as it's away ahead of all the reds.

Price, per 1000, \$75.00; per 100, \$10.00, 250 at 1000 rate. ROOTED CUTTINGS 3000 Boston Market, ready now, \$2.00 per 100; \$12.50 per 1000, 3000 Queen Louise, ready now, \$1.25 per 100; \$8.00 per 1000. 1000 Mrs. Roosevelt, ready now, \$1.25 per 100; \$8.00 per 1000. Satisfaction guaranteed or money refunded.

QUIDNICK GREENHOUSES, Anthony Post Office, Rhode Island J. H. CUSHING, Prop. Mention the Florists' Exchange when writing.

CARNATIONS

Wm. Penn, a promising pink novelty, the greatest bloomer ever happened. From soil, \$10.00 per 100; 25 for \$2.50. Queen Louise, from soil, \$10.00 per 1000 Floriana, from soil, \$12.50 per 1000.

BIG BATCH OF CUTTINGS FROM SAND, READY MARCH 20 GERANIUMS ROOTED CUTTINGS Next delivery March 27. \$10.00 and \$12.50 per 100.

100,000 Smilax, 50,000 Asparagus Sprengeri, 50,000 Asparagus Plumosus and Robustus. Ready June 1. Send for Prices.

SEND FOR MARCH PRICE LIST ALBERT M. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

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Open at 7 A. M.
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Assignments solicited. Out-of-town orders carefully attended to. Give us a trial.
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Open every Morning at Six o'clock for the Sale of Cut Flowers
Wall Spces for advertising purposes to Rent
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Always ready to receive Fine Stock
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Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

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All Choice Cut Flowers in Season ALFRED H. LANGJAHR

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Telephone 3924 Madison Square.
ESTABLISHED 1891 BUY FROM SHIP TO ME
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Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

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Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES - Violets, Carnations and Roses
Shipping orders receive prompt attention. Consignments Solicited.
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42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY

WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones: 2200 Madison Square 57 West 28th Street, NEW YORK
2201 Madison Square

Wholesale Prices of Cut Flowers, New York, March 17, 1905.

Prices quoted are by the hundred unless otherwise noted.

A. BEAUTY, fancy—special	20.00 to 25.00	(Inf' grades, all colors.....	.75 to 1.00
" extra	10.00 to 12.00	White.....	1.00 to 1.50
" No. 1	6.00 to 10.00	Pink.....	1.00 to 1.50
" No. 2	3.00 to 4.00	Red.....	1.00 to 1.50
" No. 3	1.00 to 2.00	Yel. & Var.....	1.00 to 1.50
Bride, 'Maid, fancy—spe'	6.00 to 8.00	*FANCY—White.....	1.00 to 2.00
extra	4.00 to 6.00	(*The highest grades of Pink.....	1.00 to 2.00
" No. 1	2.00 to 3.00	standard var.) Red.....	1.00 to 2.00
" No. 2	1.00 to 2.00	Yel. & Var.....	1.00 to 2.00
Golden Gate.....	1.00 to 6.00	(NOVELTIES.....	2.00 to 5.00
Liberty.....	8.00 to 20.00	LILY OF THE VALLEY.....	1.00 to 2.00
Meteor.....	1.00 to 6.00	MONONETTE, ordinary.....	1.00 to 2.00
Mme. Abel Chatenay.....	1.00 to 6.00	" fancy.....	4.00 to 6.00
ADIANTUM.....	.50 to .75	NARCISUS, Paper White.....	.50 to 1.00
CROWNEANUM.....	to 1.50	" Ordinary Yellow.....	.50 to 1.00
ASPARGUS.....	25.00 to 50.00	" Double Yellow.....	2.00 to 3.00
" Sprenger, bunches	15.00 to 35.00	PANSIES, per dozen bunches...	.25 to .50
CALLAS.....	5.00 to 8.00	ROMAN HYACINTHS.....	1.00 to 2.00
CATTLEYS.....	50.00 to 60.00	JMILAX.....	10.00 to 15.00
CYPRIPIDIUMS.....	6.00 to 10.00	STOCKS, per bunch.....	.10 to .25
DAISIES.....	.50 to 1.50	SWEET PEAS.....	.50 to .75
FREESIAS, per bunch.....	1.10 to .25	TULIPS.....	.75 to 2.00
LILAC, per bunch.....	.50 to .60	VIOLETS.....	.15 to .20
LILIES.....	2.00 to 8.00	" speciale.....	.20 to .35

WALTER F. SHERIDAN

Wholesale Florist
Telephone, 902 Madison Square
39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
Telephone, 1998 Madison Square
JOHN I. RAYNOR, 49 West 28th St., NEW YORK

EDW. C. HORAN

Receiving Daily Fine PRES. CARNOT KAISERINS METEORS BEAUTIES Etc.
We have a fine grade of everything in market at present.
Send us a Trial Order and we will do the rest.
55 West 28th Street NEW YORK
Telephone, 421 Madison Square
CUT FLOWERS AT WHOLESALE
Mention the Florists' Exchange when writing.

Milwaukee.

News Notes.
Carnation night brought out a very large attendance at our last Florists' Club meeting. There was a fine display of Enchantress, Mrs. Lawson, Flamingo, Lady Bountiful, the new Red Lawson and Robert Craig. Lunch and refreshments were served.
B. G. Lambros was forced into bankruptcy the past week. The store was recently closed by the sheriff to satisfy a judgment of John Lambros of Chicago, but several of the creditors petitioned the court to appoint a receiver before the stock was sold to satisfy the former judgment. Mr. Lambros conducted one of the finest stores in the city. Heavy expenses in fitting it up and lack of capital to successfully continue the business were the principal causes of the failure. As the store is excellently located, some arrangements may be made to continue it as a florist's establishment.
Spring openings in the millinery and department stores are consuming large quantities of stock, and some heavy orders are being placed.
Active preparations are now making for the supply of Spring bedding stock and most growers in this line are busy shifting and putting up. The usual number of Dutch bulb men have called, several of them passing through last week.
C. C. P.

Kalamazoo, Mich.

Trade Items.
Business continues very fair, with quite a good amount of funeral work; shipping orders are also reported as quite lively. There is an abundance of good stock and wholesale quotations are shaded as conditions require.
Van Boehoves display a nice collection of cut flowers and plants in their downtown windows, while the Central Nursery Company makes an elegant display of violets which, I am told, are good sellers. Mr. Cook reports business very good with him, and feels encouraged to persevere with his venture. Grovert & De Smit are so well satisfied with the season's business that they are planning further extensions for the Summer. They also intend to plant roses as well as carnations this year, and their alterations are being made to their requirements.
S. B.

Every Florist Should Have It.
I like The Florists' Exchange very much and think it should be in the hands of every florist. Not a single number comes to hand that does not give the trade full value for the year's subscription.
ALEX. MANN.
Ontario.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of CUT FLOWERS.
Consignments solicited. Prompt settlements

MOORE, HENTZ & NASH
WHOLESALE
AGENTS
COMMISSION FLORISTS
55 West 26th St., New York

Telephone Call: 754 Madison Sq.
Mention the Florists' Exchange when writing

SEND YOUR ADVERTISEMENT NOW FOR THE SPRING NUMBER

SAMUEL S. PENNOCK

THE Wholesale Florist of Philadelphia
GARDENIAS and WHITE VIOLETS

Mention the Florists' Exchange when writing.

Let us know your wants in Plants and
Cut Flowers for Easter. We can fill them.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

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R. C. HAYDEN, SECY. AND TREAS.

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THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers
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HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses. Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN
7.30 A. M. to 8.00 P. M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

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FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd

504 Liberty Ave., PITTSBURG, PA.

Mention the Florists' Exchange when writing.

CARNATIONS

In Any Quantity. No better stock coming to this market

Mention the Florists' Exchange when writing.

THE LEO NIESSEN COMPANY

STORE OPEN FROM
7 A. M. to 8 P. M. 1217 Arch St., Philadelphia, Pa.

Worcester Conservatories

Wholesale Growers of

CUT FLOWERS

Prompt attention given all orders.

WORCESTER, MASS.

Mention the Florists' Exchange when writing.

Headquarters in
Western New York
For ROSES,
CARNATIONS
And all kinds of Season-
able Flowers.



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Wholesale Commission Florist

ALSO DEALER IN FLORISTS' SUPPLIES
AND WIRE DESIGNS

383-87 Ellicott St. BUFFLAO, N. Y.

GIVE US A TRIAL WE CAN PLEASE YOU

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MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000.
DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.
Mention the Florists' Exchange when writing.

"Standard for Quality"

GALAX LEAVES, LEUCOTHOE SPRAYS
GREEN SHEET MOSS

WM. G. SMITH, Marion, N. C.

Sold in New York by L. J. Kreshover; Philadelphia, S. S. Pennock; Buffalo, Wm. F. Kasting; Albany, H. L. Menand; Pittsburg, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Kennebec & Tuno.

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CYGAS LEAVES

The very best that have ever been sold in this market, also medium qualities for sale at very moderate prices.

L. WERTHEIMBER & CO.,
Foreign & Domestic Specialties,
39 Barclay St., New York.

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HARDY CUT DAGGER AND FANCY FERNS

\$1.50 per 1000.

WILD SMILAX, \$4.00 and \$7.00 per case.

GALAX, New crop. Green and bronze. \$1.00 per 1000.

Headquarters for all FLORISTS' SUPPLIES, such as Wire Designers, Cut Wire, all kinds of Letters; Immortelles, Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass
L. D. Telephone, Main 2618.

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Sphagnum Moss and Cedar Poles

Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.

H. R. AKERS, CHATSWORTH, N. J.

HARDY CUT FERNS

Fancy and Dagger, \$1.50 per 1000; discount on large orders. Sphagnum Moss, first quality, 60c. per bbl.; second quality, 30c. per bbl. Laurel Roping, hand made and well put together, 4c. per yd. Spruce Bosh, for cemetery use. Elm and Maple Trees, for planting. Bouquet Green, for Easter. Cash with all orders or no attention paid.

Thomas Collins, Hinsdale, Mass.



National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 656 John HARRIS H. HAYDEN (Late Manager of the Nopera Chemical Company), President EDWARD MOK WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer

56 PINE ST., Wallace Bldg., N. Y. CITY
8 & 11 Province St., Boston, Mass
L. D. Telephone, Main 2618.

Mention the Florists' Exchange when writing.

Out of Sight, Out of Mind.

The other fellow's ad. will appear in our Spring Edition, March 25 if yours is not there, also, you'll be forgotten when buying time comes and the moral is plain: Be there.

HAVE YOU received one of our Cut Flower Box Price Lists? If not, write for one.

VAUGHAN & SPERRY 60 WABASH AVENUE CHICAGO, ILL.

BERGER BROS. WHOLESALE FLORISTS

Bell and Keystone 'Phones 1220 Filbert Street, PHILADELPHIA
Mention the Florists' Exchange when writing.

CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses and Spring Flowers

11 South 16th Street, PHILADELPHIA
Mention the Florists' Exchange when writing.

REED & KELLER

Importers and Manufacturers of FRESH GALAX and LEUCOTHOE ALL FLORISTS' SUPPLIES
122 W. 25th St., NEW YORK
New York Agents for Caldwell's, Monroes, Ala., Parlor Brand Smilax.

SCRANTON FLORIST SUPPLY COMPANY

201 North Seventh Ave. SCRANTON, PA.
Importers and Manufacturers of FRESH GALAX and LEUCOTHOE ALL FLORISTS' SUPPLIES
SEND FOR CATALOGUE
Mention the Florists' Exchange when writing.

FERNS

FANCY, \$1.50 per 1000. DAGGER, \$1.25 per 1000.

GALAX, brilliant bronze or green, 75c. per 1000, \$6.50 per case of 10,000.

Laurel Festooning, hand-made, full sizes, 4c., 5c. and 6c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle.

Southern Wild Smilax, \$5.50 per 50 lb. case.

Laurel Wreaths and Prince's Pine Wreaths

Made all sizes and prices.

Prince's Pine by the lb. and made into roping. Tell us your wants and we will name you prices.



MILINGTON, MASS.
Telegraph Office: New Salem, Mass.

Unrivalled Collection of SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$6.00; 25-lb. case, \$3.25.

GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.

Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.

All Kinds of Florists' Supplies.

L. J. Kreshover, 112 West 27th Street, New York
Tel. 697 Madison Sq.

Mention the Florists' Exchange when writing.

A. L. FORTUNES

Wholesale and Retail Dealer in DAGGER FERNS and GALAX LEAVES

Bronze or Green Galax, 75c. per 1000; \$3.50 per case.

SPECIAL, Our Dagger Ferns, best quality, selected No. 1, \$1.00 per 1000, full count.

ONCE TRIED ALWAYS PREFERRED

431 State Street, NEW HAVEN, CONN.

Mention the Florists' Exchange when writing.



HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

Mention the Florists' Exchange when writing.

Special facilities for handling large orders. Write, Wire or 'Phone
E. A. BEAVEN, Evergreen, Alabama

St. Louis.

Crews of the Week.

J. F. Windt has been laid up with very sore hand for the past two weeks. It has been reported that blood poisoning has set in, and that serious trouble is looked for unless a change or the better comes soon.

Carew Sanders pleased his many friends in the trade by calling on them Monday, looking in the best of health. Mr. Sanders has been confined to his room nearly all Winter with a bad case of rheumatism. He claims he passed Dr. Osler's chloroforming age eighteen ears ago.

The Plant and Cut Flower Growers' association will hold its first regular meeting on next Wednesday afternoon, March 22, at 3 o'clock. President Halstead says that he looks for a big attendance, as a number of important matters are to be discussed.

The Fall chrysanthemum show, to be held by the Florists' Club, will be, from reports of the executive committee, one of the largest ever given by the club. The management is in good hands; and if all the members will lend assistance here will, no doubt, be a successful how. A few special prizes have already been placed, and the Shaw prizes await the return of Professor Trelease, of the Missouri Botanical Garden. These prizes amount to \$500, and the members have guaranteed \$500, making \$1,000 in all already in the hands of the executive committee.

Henry Emmons, of Belleville, Ill., reports that he will plant 50,000 ever-blooming tuberose this Spring, also the same number of gladiolus. Cut flower trade has been good up to Lent.

Miss Schnell, of East St. Louis, Ill., who buys her stock on this side, says that her trade has been fine right along, and Lent don't seem to cut any figure with her.

James S. Wilson, Western Springs, Ill., who was with us last week, was made an honorary member of the St. Louis Florists' Club, also of the bowling club. He is now eligible to roll with the St. Louis team at Washington, in case we are short a man. Stranger things have happened than this.

J. D. Thompson, of the J. D. Thompson Carnation Company, of Joliet, Ill., spent Monday in St. Louis calling on the trade. ST. PATRICK.

Philadelphia.

News Notes.

A musicale will be given under the auspices of the Florists' Club on Thursday, March 30, at Griffith Hall, 1420 Chestnut street, at 8:15 p.m. This has been arranged by one of the associate members of the club; and it is hoped the trade will show their appreciation by attending. Tickets are on sale at the retail stores. The talent is the best amateur talent that it is possible to secure in this city.

As usual at the beginning of Lent business has been quiet this week, and flowers are accumulating at the wholesale establishments. Some of the plant growers report that orders are commencing to come in, so as the weather improves business will show a large increase.

Godfrey Aschmann has a new delivery wagon out this week. On each side is painted three plants in pots—an azalea, an areca and an araucaria. The work is well done.

George C. Watson, seedsman, Juniper street, below Locust, has made an assignment for the benefit of creditors. The assignee is Wm. J. Graham, an attorney. DAVID RUST.

Wm. J. BAKER

Wholesale Florist
1432 S. Penn Square, PHILADELPHIA, PA.
Seasonable Cut Flowers
Fine Quality
Both 'phones.

DUMONT & CO.

Wholesale Florists
Carnations a Specialty
No. 1305 Filbert St., Philadelphia
Bell and Keystone 'Phones.

WM. J. MOORE

Wholesale Florist
1235-37 FILBERT STREET
"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.
Bell and Keystone 'Phones.
Consignment of CARNATIONS and ASPARAGUS, Solicited.

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Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Bet. Market and Chestnut Streets
Choicest Stock Always on Hand
Telephone 1-42-26-A.
Mention the Florists' Exchange when writing.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty. Write, telephone or telegraph. Long Distance Phone, 1129 Main.
Headquarters for HARDY FERNS and WILD SMILAX
Most Complete Line of FLORISTS' SUPPLIES in the West
CATALOGUE FREE.
E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO
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J. B. MURDOCH & CO.

Wholesale Florists
FLORISTS' SUPPLIES
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Long Distance 'Phone, 1435 Court.
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Successor to Illinois Cut Flower Co.
Wholesale Cut Flowers
Consignments Solicited.
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SINNER BROS.

Wholesale Growers and Shippers of CUT FLOWERS
58-60 Wabash Ave., Chicago, Ill.
With the Flower Growers' Co.
TELEPHONE, CENTRAL 8067.
All telephone and telegraph orders given prompt attention.

VAUGHAN & SPERRY

58-60 Wabash Ave., CHICAGO
WHOLESALE FLORISTS
Florists' Supplies
All Cut Flowers at Ruling Market Prices

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Wholesale Commission Florist and Dealer in all Florists' Supplies
51 WABASH AVENUE, CHICAGO
Correspondence Invited from Growers of Specialties in Cut Flowers
Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Name and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, and St. Louis. Rows include A. BEAUTY, Roses, ORCHIDS-Cattleyas, Carnations, ADIANTUM, ASPARAGUS, CALLA, DAFFODILS, DAISIES, FREESIAS, HYACINTHS, LILIES, LILY OF THE VALLEY, MIGNONETTE, NARCISSUS, PANSIES, SMILAX, SWEET PEAS, TULIPS, and VIOLETS.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style
The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always.
Size No. 0... 3x 4x20... \$2.00 per 100, \$19.00 per 1000
" 1... 3x 4x18... 1.50 " 15.00 "
" 2... 3x 4x16... 1.00 " 10.00 "
" 3... 4x 8x18... 2.50 " 25.00 "
" 4... 4x 8x22... 2.75 " 27.50 "
" 5... 4x 8x28... 3.00 " 30.00 "
" 6... 4x 8x32... 3.50 " 35.00 "
" 7... 6x16x20... 5.50 " 55.00 "
" 8... 6x 7x21... 5.00 " 50.00 "
" 9... 6x10x35... 5.50 " 55.00 "
" 10... 7x20x20... 7.50 " 75.00 "
" 11... 3x4x5x30... 3.00 " 30.00 "
Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.
THE LIVINGSTON SEED CO., Box 104, Columbus, O.
Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.
MILWAUKEE, WIS.
Mention the Florists' Exchange when writing.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25
MANUFACTURED BY
W. J. COWEE, Berlin, N.Y.
Samples free. For sale by dealers.
Mention the Florists' Exchange when writing.

BOSTON, MASS.

WELCH BROS. PROPRIETORS
CITY HALL CUT FLOWER MARKET
15 PROVINCE ST.—9 CHAPMAN PL.
Kaiserins Violets Carnots Orchids Valley Carnations
Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268
Mention the Florists' Exchange when writing

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Wholesale Florist
1402 Pine Street, ST. LOUIS, MO.
Mention the Florists' Exchange when writing.

HOLTON & HUNKEL CO.

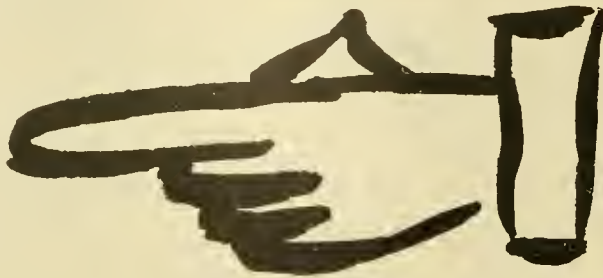
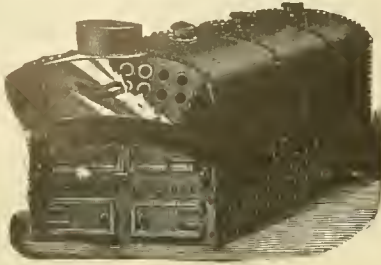
Wholesale Florists
Florists' Supplies
Manufacturers of Wire designs.
457 Milwaukee Street, MILWAUKEE, WIS.
'Phone, Main 674. P. O. Box 103.
Mention the Florists' Exchange when writing.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler

33 ERJE ST., CHICAGO



ORDER NOW

*Prices will be higher later on
Place your order now and save money.
Will ship Boiler when wanted; you do
not pay until Boiler is shipped
Write for information and prices*

Buffalo.

The Week's News.

Incidental to the auto show last week, some stores made special window displays. Anderson had a regular machine trimmed up with bloom with the conventional wax figure female chauffeur duly installed. Palmer's up-town store, Arthur Bey gave up the wide window to a full sized model of a "Tonneau" entire constructed on a wire moss-filled for the paneled parts being covered with bronzed galax leaves in flat layer style, while the lines and working part were outlined in foliage and red carnations. The finished effect was good, and the whole deemed a success as an advertisement.

W. W. Wells, formerly with C. J. Zimmerman, has become the proprietor of the retail place for a long while conducted by E. J. Buxton, at 11 Niagara street, having taken occupancy some ten days ago.

J. H. Rebstock's business has recently been incorporated into a stock company, capitalized for \$10,000.

Stuart Lansing, of this city, and Chester Harris, of Rochester, N. Y. have both entered the employ of S. Anderson in his Main street store.

Otto Gielles has taken an office position of responsibility with W. F. Kasling, wholesaler. V.I.D.

Pittsburg.

News Notes.

B. L. Elliott, who sold his place a short time ago to L. I. Neff, has left for California.

A flower market in Pittsburg is being talked about by some of our florists but nothing definite has materialized far.

The McKeesport Floral Company capital \$50,000, was formed lately. The promoters are the well-known florist of McKeesport, John H. Orth, and J. Hodgson, J. M. Johnston and Charles T. Moore.

Visitors during last week were: C. Baartman, the bulb grower, of Saanheim, Holland and B. Eschner, M. Rice & Co., Philadelphia.

The bowlers among the florists are talking about forming a club, so they shall be ready to enter the contest at Washington this Summer. Any one who desires to play, please notify T. Langhans, of the Pittsburg Cutflow Company.

The Botanical Society held its monthly meeting last week, which was very well attended. Dr. J. A. Shafer, formerly secretary of the society, now residing in New York made an address on "Botany Lessons from the New York Botanical Gardens," illustrated with 100 lantern slides. Dr. Shafer, an interesting talker, and his remarks were enjoyed by all.

E. C. REINEMAN.

Glad to Hear It.

Must say I am very pleased with the Exchange. HENRY HALBIG.
N. J.

HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.

C. S. WEBER & CO.
10 Desbrosses St., New York

Mention the Florists' Exchange when writing.

SUMMER IN WINTER
BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

GIBLIN & CO., Utica, N. Y.

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Evans Improved Challenge

Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, IND.

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Holds Glass Firmly
See the Point at **PEERLESS**
FULL SIZE N. E.
Glasing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

Mention the Florists' Exchange when writing.

CEMENT BENCHES
NIAGARA CEMENT & CONCRETE CO.
NORTH TONAWANDA, N. Y.

Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

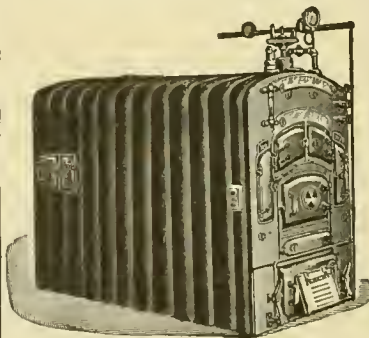
	Price per crate		Price per crate
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.29
1500 2 1/2 "	5.25	60 8 "	5.00
1500 3 "	6.00		HAND MADE
1000 3 "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 "	5.80	48 10 "	4.80
500 4 "	4.50	24 11 "	5.60
320 5 "	4.51	12 14 "	4.80
144 6 "	3.16	6 16 "	4.50

Seed pans, same price as pots. Send for price list of cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Koller & Sons, Agts. 81 Barclay St., N. Y. City
Mention the Florists' Exchange when writing.

"Entirely Satisfactory"
That's what prominent Florists say of the celebrated

Furman Boilers



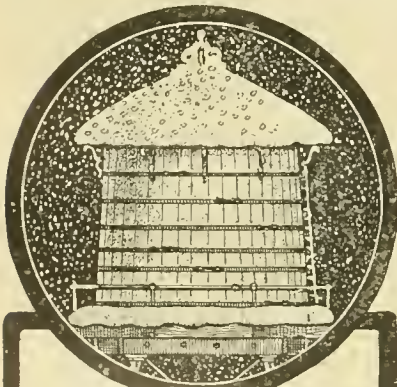
Particularly well adapted for

GREENHOUSE HEATING

Write us for Illustrated Catalogue and Special Florists' Prices. Address

The HERENDEN MFG. CO.
Dept. F. GENEVA, N. Y.

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Absolutely Safe and Reliable. Ask your friends.

The Best is the Cheapest

In water tanks and towers as in other things

CALDWELL TANKS and TOWERS

are the best and cheapest because first cost is the only cost. Repairs are unknown. Only a coat of paint now and then is required. No danger of being without water at any time if you use as follows:

CALDWELL OUTFIT.

Send for catalogue and price list, which will convince you.

W. E. CALDWELL CO., Louisville, Ky.

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STANDARD FLOWER POTS
THE WHILLDIN POTTERY COMPANY

PHILADELPHIA, PA.

JERSEY CITY, N. J.

LONG ISLAND CITY, N. Y.

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GREENHOUSE LUMBER

THE BEST RESULTS

In commercial growing are largely effected by having the best houses.

OUR DESIGNS embody the best features of greenhouse construction, and our estimates are always based on the very best grade of Gulf Cypress, absolutely free from sap.

QUICK SERVICE is assured in filling orders. Our new detail sheet mailed on request.

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

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Automatic Greenhouse VENTILATORS

From \$25.00 up. Send for circular.
Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.
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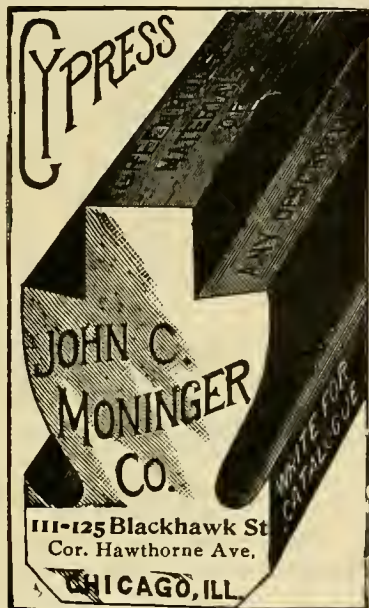
CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY
Window Glass. Painters' Supplies.
Washington Ave., Pittsburg, Pa.
31st Ward,
Mention the Florists' Exchange when writing.

The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation.
The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market.
The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.
E. HIPPARD, Youngstown, O.

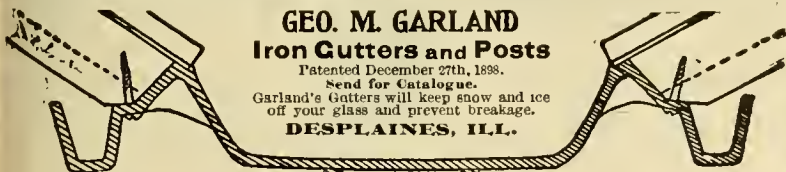
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GLASS

For GREENHOUSES, GRAPERIES, HOTBEDS CONSERVATORIES, and all other purposes
Get our figures before buying. Estimates freely given
N. COWEN'S SON, 392-94 W. Broadway, NEW YORK
Mention the Florists' Exchange when writing.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.
Mention the Florists' Exchange when writing.

75,000 Square Feet Glass Surface

The above figures represent commercial heating contracts already signed for the season of 1905.

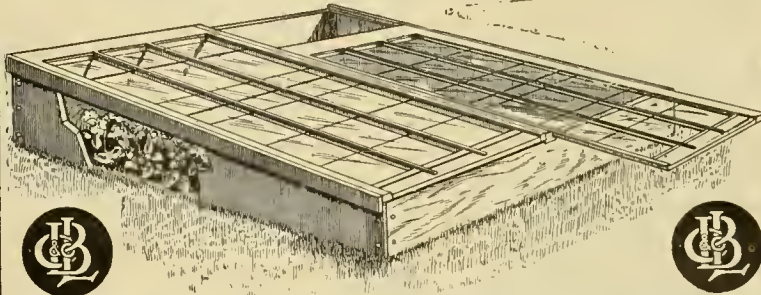
A SAMPLE COPY OF SOME OF THE LETTERS ON FILE AT MY OFFICE:
LYONS FARMS, N. J., Feb. 1st, 1905.
Ma. Wm. LUTTON. Dear Sir:—I wish to state that I am well pleased with the heating of the two new carnation houses, that you installed for me last summer, the boiler works splendid, and is all that it is represented to be, I shall take great pleasure in recommending you to any persons contemplating heating work.
Yours very truly, Wm. G. MULLER.

An opportunity to estimate on your proposed heating or repair work will be to your interest.

WM. H. LUTTON, Telephone 174 J, Bergen, West Side Ave. Station, Jersey City, N. J.
Eastern Agent for FURMAN and KROESCHELL BOILERS.
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Hot-Bed Sash and Frames FOR GROWING VEGETABLES, VIOLETS, ETC.

OUR SASH ARE STRONG AND DURABLE, CONSTRUCTED OF RED GULF CYPRESS
"The Best is the Cheapest." An Iron Rod is run through the center of all the Sash Bars, tying the Sash and giving support to the Bars. All joints are white leaded and are held with steel dowel pins.



Greenhouse Material, "Special Putty and Greenhouse Glass always carried in stock
Catalogues of Greenhouse Construction, Heating and Ventilating will be mailed on request. Address New York office.

Write to-day for price list of Hot Beds
LORD & BURNHAM CO.
N. Y. Office, St. James Building, 1133 Broadway
Gen'l Office & Wks., Irvington-on-Hudson, N. Y.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

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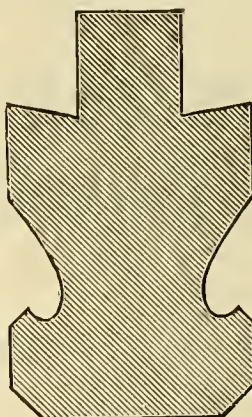
Successors to JENNINGS BROS.

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

EUREKA GREENHOUSES

Send for catalogue Get the best Greenhouse Material, Composition Posts
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

GULF CYPRESS Greenhouse Material



Cut and Spliced Ready for Erection

Hot Bed Sash

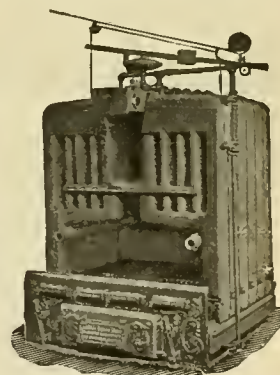
Pipe, Fittings, Ventilating Apparatus

GREENHOUSE GLASS

We furnish everything for Building

Heating Installed

Send for Prices and Catalogue



S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N.Y.

"Music hath charms" so has the

GREENHOUSE MATERIAL

produced by

THE FOLEY MANUFACTURING CO.

—471 W. 22ND ST. CHICAGO—

Cypress woodwork & Hot-bed sash, Tennessee Red Cedar posts
FOLEY ventilating Apparatus & hardware specialties
Galvanized screw eyes, screwhooks, turnbuckles & wire
Send for free illustrated catalogue!!!

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North Tonawanda, N. Y.,
and Toronto, Canada.

New Greenhouse Catalogue ready for
distribution. Send for it.

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TARRAGON GENUINE STOCK

PLANTS AND ROOTS

H. MALLIET, Bound Brook, N. J.

Mention the Florists' Exchange when writing.

CYPRESS
IS FAR MORE DURABLE THAN PINE
CYPRESS
SASH BARS
UP TO 32 FEET OR LONGER.

GREENHOUSE
AND OTHER BUILDING MATERIAL,
MEN FURNISHED TO SUPERINTEND
ERECTION WHEN DESIRED.
Send for our Circulars.
THE A. T. STEARNS LUMBER CO.,
NEPONSET, BOSTON, MASS.

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ASPARAGUS DEUMBENS, 3 in. pots, 75c.
per doz., \$6.00 per 100.
ASPARAGUS FLUMOSUS, fine plants, 3 in.
pots, \$5.00 per 100.
ASPARAGUS SPRENGERI, 2 in. pots, \$2.00
per 100; \$15.00 per 1000; 500 at 1000 rate.
ASPARAGUS SPRENGERI, strong, 2 in., 75c.
per doz.; \$6.00 per 100.
CARNATIONS, pot grown, per 100. Enchan-
tress, \$4.00; Boston Market, \$2.50; Red Sport,
\$6.00; Flamingo, \$5.00; The Queen, \$3.00; Mrs.
Fisher, \$3.00. Strong rooted cuttings from soil,
per 100. Flora Hill, Queen Louise, Scott, Joost,
Festle, Crocker, \$1.50; Crane, \$2.00.
CLEMATIS PANICULATA, 4 in., \$1.50 per
doz.; \$10.00 per 100.

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PHILADELPHIA, PA.

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The Florists' Hail Association

of America has paid \$40 losses in 18 years amount-
ing to over \$70,000. For particulars address
JOHN C. ESLER, Saddle River, N. J.

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MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St.,
NEW YORK

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Hitchings' NEW MOGUL BOILERS

For Hot Water or Steam
HOT WATER Radiation from
4,200 Square Feet and Up.
STEAM Radiation from 2,500
Square Feet and Up.
Send four cents postage each
for fully illustrated catalog
on Greenhouse Construction
and Heating and Ventilating.

HITCHINGS & CO.
Horticultural Architects
and Builders
233 Mercer St., NEW YORK.
ESTABLISHED 1844.

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H. BAYERSDORFER & CO.

Importers and Manufacturers of

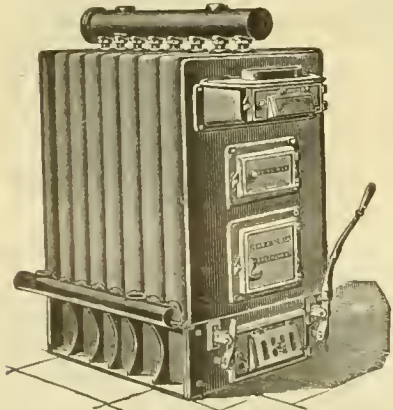
FLORISTS' SUPPLIES

NOVELTIES for EASTER In large assortment
including Stuffed
Chickens, Ducks, Rabbits, Meadow Larks, and Full Size
Bantam Roosters.

Twig Baskets, metal lined, several styles; Swan-Shaped Baskets;
Fern Baskets, oblong, metal lined. Colored Foil.

50 to 56 North 4th Street, PHILADELPHIA, PA.

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Scollay Invincible Boilers

FOR HOT WATER AND STEAM.
Boilers that respond quickly and are unequalled
for their efficiency, simplicity of con-
struction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not
steel) 2 in., 10 3/4 c. per foot.
Horticultural building of every
description.

JOHN A. SCOLLAY
72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.
Established 42 Years



WE DESIGN, MANUFACTURE AND ERECT
Galvanized Steel Patent U Bar Greenhouses
Flat Rafter Iron Framed Greenhouses
First-class Low-priced Cypress Greenhouses

PIERSON BOILERS FOR WATER AND STEAM

PIPE, FITTINGS and VALVES for Greenhouse Heating
VENTILATING APPARATUS, Self-Locking, Self-Oiling
Hot Bed Sash, Benches, Special Hand-made Putty

THE PIERSON-SEFTON CO., West Side Ave. South,
JERSEY CITY, N. J.

Plans and Estimates Furnished for Complete Structures or Material only

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TILE DRAINED LAND IS MORE PRODUCTIVE Earliest and easiest worked
Carries off surplus water
admits air to the soil. In-
creases the value. Acres of swampy land reclaimed and made fertile
Jackson's Round Drain Tile meets every requirement. We also make Sewer
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Greenhouse Material



Hot Bed Sash

of Louisiana Cypress and Washington Red Cedar

OUR FACILITIES INCREASED OUR GRADES INVARIABLY THE BEST

OUR PRICES RIGHT


Write for Catalogue and Estimate, when figuring on your new houses.

A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.
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NICOTICIDE KILLS

Green Fly
Mr. J. A. Budlong, Chicago,
March 11, 1904, says:
"We have been using Nicotilde on our whole place now for some
time and find it the most satisfac-
tory fumigant we have ever used.
We heat entirely by steam, and paint
it on the pipes when hot. This
application works well and is cer-
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Thrips




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Manufacturer of Floral Metal Designs

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SUCCESSFUL FLOWER SEEDS**



ASTER SEED

SELECTED STRAINS

	Trade pkt.	Oz.
Queen of the Market, white, pink, dark blue, purple, light blue, scarlet, each separate	\$0.20	\$0.60
Choice mixed	.15	.50
Seemples Branching, pink, lavender, purple, white, rose, red, each	.20	.75
Choice mixed	.20	.60
Truflant Perfection, Peonia-flowered, white, pink, light blue, purple, scarlet, blood red, each	.20	1.25
Choice mixed	.20	1.60
Victoria, white, pink, light blue, purple, crimson, each 1/4 oz., 50c.	.25	1.75
Mixed	.25	1.20
Giant Comet, white, rose, bright red, light blue, The Bride, dark blue	.20	1.00
Choice mixed	.15	.75
Giant Branching Comet, mixed	.20	1.00
Vick's White Branching	.20	.75
Daybreak, shell pink	.30	2.00
Purity, double white	.30	2.25
Hohenzollern, white or rose, earlier than any other, fine	.40	

FLORACROFT Prize Strain GLADIOLI Immense Spikes Orchid-like Blooms
HAVE RECEIVED THE HIGHEST AWARD WHEREVER EXHIBITED

	100	1000		100	1000
Floracroft Prize Mixture, 1st size	\$1.50	\$10.00	Branchloyensis, scarlet	\$1.25	\$10.00
" " " 2d size	1.00	7.50	Striped and Variegated	2.25	20.00
Groff's New Hybrids, 1st size	2.00	18.00	White and Light	1.75	15.00
Orange and Yellow	2.75	28.00	Lemolne's Hybrids, mixed	1.50	12.00
Pink Shades, mixed, 1st size	1.50	12.00	Am. Hybrids, choice mixed	1.00	9.00

CHINESE HERBACEOUS PEONIES

	Per doz.	Per 100		Per doz.	Per 100
Double White	\$1.50	\$10.00	Double Dark Red	\$1.25	\$8.00
Double Pink	1.25	8.00	Double Mixed	1.00	6.00
Double Red	1.25	8.00			

TUBEROSES EXCELSIOR DWARF DOUBLE PEARL
4 to 8 inches, 85c. per 100; \$7.00 per 1000.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.
Mention the Florists' Exchange when writing.

Onion Sets

CHOICE STOCK

Samples and Prices on Application

VAUGHAN'S SEED STORE

84-86 Randolph St. CHICAGO
14 Barclay St. NEW YORK

Mention the Florists' Exchange when writing.

蓮 Your attention is called to our advertisement on page 359
H. H. Berger & Co.
Mention the Florists' Exchange when writing.

ASTER SEED

Seuple's Shell-Pink. Ounce, 40c.
This seed will produce the largest and finest flowers. Not less than one ounce sold.
A. W. SAMPSON, Penn Yan, N. Y.
Mention the Florists' Exchange when writing.

BULBS

California Grown for American Buyers

FREESIAS

Five million to dig this season. Will begin shipping middle to end of May. We are the largest growers of Freesias in the United States, if not in the world. Our stock and prices cannot be beaten.

GRAND DUCHESS OXALIS (Grandiflora)

White, pink and lavender—an immense crop.

BERMUDA BUTTERCUP OXALIS

AMARYLLIS

Johnsonii, (in sizes), Belladonna and Compere's Fine Hybrids that took the Gold Medal at Paris Exposition. Finest strains, equal to anything known.

OTHER BULBS

Tritonias, Chlidanthus fragrans; Tigrida (our hybrids); Zephyranthes, Rosea and Candida; Ixias, Anthalyza, Ornithogalum; Sparaxia; Mexican Iris; Gladiolus Hybrids, our own, splendid and can't be beaten; Crimson Winter Rhubarb Plants and Seeds, etc.

ASPARAGUS PLUMOSUS NANUS SEED, at \$1.80 per 1000.

Prices on application for quantities. No trouble to answer questions.

We can not and we will not be beaten in anything in our line.

REES & COMPERE

Signal Hill Bulb Farm, LOS ANGELES COUNTY, CAL.
P. O. Address, R. F. D. No. 1, LONG BEACH, CAL.

Mention the Florists' Exchange when writing.

Michell's Superior Branching Asters

Our selected **Seuple's Late Asters** is a strain of money maker. Seed saved from the finest and largest double flowers, solid colors, with long stiff stems, which command top-notch prices. Try them with following colors:

Lavender, Pink, Purple, Red, White and Mixed
Per Tr. Pkt., 30c.; per oz., \$1.00

For Select List of **FLOWER SEEDS - BULBS - SUPPLIES** and everything for the Florist, see our Wholesale List. Mailed on request.

HENRY F. MICHELL CO., 1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

BURPEE'S
"Fordhook Finest" Lawn Grass
AT ST. LOUIS WORLD'S FAIR



The Only Gold Medal for Lawn Grass at St. Louis World's Fair

was awarded to us for the lawns produced from BURPEE'S "FORDHOOK FINEST" LAWN GRASS. This is the highest award possible. The seed from which these lawns were produced was exactly the same "prescription" and quality as supplied regularly to our trade. If you would have the best lawn it is possible to produce you should order this unequalled "GOLD MEDAL" MIXTURE. 35 cts. per lb. box, postpaid. By express or freight, 20 cts. per lb.; 25 lbs. or more, at 18 cts. per lb. It is the cleanest and heaviest seed on the market; weighs 25 to 27 lbs. per measured bushel.

A GRAND PRIZE for Vegetables at ST. LOUIS was won by the products of Burpee's "Seeds that Grow."

If you garden you want THE BEST, and we shall be pleased to mail you Burpee's Farm Annual for 1905—an elegant new book of 178 pages, which tells the plain truth, with hundreds of illustrations, beautiful colored plates and describes Superb Novelties of unusual merit. Write to-day! A postal card will do, while it is sufficient to address simply

BURPEE'S SEEDS, PHILADELPHIA

W. ATLEE BURPEE & CO.

Seed Growers and Proprietors of the World's Largest Mail-Order Seed Trade

Mention the Florists' Exchange when writing.

CRIMSON RAMBLER **OWN ROOTS.**
 3500 No. 1 1/2 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$15.00 per 100.
HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.
HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.

GOLD MEDAL CANNA
West Virginia

Dry roots, \$3.00 per 100; Started plants, \$5.00 per 100. Ready April 1st. Stock limited, speak quick.

GUS. OBERMEYER P. O. Box 219, Parkersburg, W. Va.
 Mention the Florists' Exchange when writing.

SEED BAGS
For The Trade

We manufacture a full line in Manila, White, Amber or Colored Laid Papers. Also print in quantities. Samples on application. Send list of requirements for estimate.

THE BROWN BAG FILLING MACHINE CO.
 Bag Dept. **FITCHBURG, MASS.**
 Mention the Florists' Exchange when writing.

WARD'S
 HIGH GRADE
Bulbs & Plants

RALPH M. WARD & CO.
 17 Battery Pl., NEW YORK

Mention the Florists' Exchange when writing.

200,000
AUGUSTA GLADIOLUS

IN DIFFERENT SIZES
 1st size, 2 inch and up.
 2d size, 1 1/2 inch, 1 1/4 inch,
 3d size, 1 1/4 inch, 1 1/2 inch.

WHITE & LIGHT
 1st size, 1 1/2 inch, 1 1/4 inch
 2d size, 1 1/4 inch, 1 1/2 inch.
 Ask for prices on the different sizes; send stamps for sample.

Long Island is known all over the world for the production of the best Gladioli Corms. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.

Address all orders to
ROWEHL & GRANZ, Hicksville, L. I., N. Y.
 Mention the Florists' Exchange when writing.

ROSES! CLEMATIS!

To close out our surplus on these items we are making low quotations on

Strong 2 Year Dormant Plants—Crimson Rambler, White Rambler, Pink Rambler, Yellow Rambler, Mme. G. Luizet, Magna Charta, Frau Karl Druschki.

Strong 2 Years—Clematis Jackmanni, Henryli, Mme. E. Andre, Ramona, Ampelopsis Veltchii. Write for prices.

Bride, Perle, Cochet Pink and White, Golden Gate and many others, from 5 in. pots, at \$10.00 per 100.

W. & T. SMITH COMPANY, Geneva, N. Y.
 Mention the Florists' Exchange when writing.

NEW Flower Seeds

ASTERS—Best German Grown

	1/4 oz.	Oz.
Queen of the Market.....	\$.15	\$.50
Victoria.....	50	1.75
Giant Victoria.....	50	2.00
Peony Fl. Perfection.....	45	1.50
Samples' Branching, Home Grown.....	20	.60

Above in Separate Colors or Mixed.
 Fresh Tobacco Stems.....\$1.50 per bale of 300 lbs.

W. C. BECKER, Allegheny, Pa.
 Mention the Florists' Exchange when writing.

DAHLIAS



Mrs. Winters, the World's best white, strong tubers, \$10.00 per 100.

Ingeborg Ege-land, best scarlet cactus, \$3.00 per doz., \$20.00 per 100.

Many other novelties and standard varieties.

Wilmore's Dahlias have long been celebrated for prize winning.

Also Double Field-grown **HOLLY-HOCKS**, true to color, \$3.00 per 100. Send for catalogue.

W. W. WILMORE
 Dahlia Specialist, Box 382, DENVER, COL.
 Mention the Florists' Exchange when writing.

Summer Flowering BULBS

Ismene Grandiflora	100	1000
Madeira Vines	\$6.00	\$50.00
Spotted Callas	1.00	8.00
Tritoma Pfitzeri	3.00	25.00
Gladiol, mixed, 1 1/4 in. diam.....	7.00	60.00
	.60	5.00

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC.

Eight per cent. discount for cash.
 Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.
 Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

FLORAL PARK, N. Y.—John Lewis Childs seedsman and florist, has been visiting California for a number of weeks. A Brooklyn (N. Y.) paper says Mr. Childs has purchased a \$12,000 tract at Pasadena, Cal., and will form a branch establishment there. He will also, it is said, build a fine residence there, making that city his Winter home.

MINNEAPOLIS, MINN.—The Minnesota Seed Company has been organized with a capital stock of \$50,000. The following have been elected officers: Dr. J. L. Schoch, president; F. Crone, vice-president; M. Meyer, secretary and manager, and Jacob Klossman, Jr., treasurer. It is the object of the organization to make a specialty of seed corn, and finally branch into the garden-seed industry. A large warehouse will be built at Minnesota and Center streets.

Gladioli Bulbs

Shakespeare, large grade, Eugene Scribe, sizes 1 and 2; No. 1900, 2, 3 and 4; Augusta, 2, 3 and 4; also small Augusta about 1/4 to 3/8 in. at \$3.50; and 5-16 to 1/2 in. at \$5.00 per 1000. No. 3 Augusta, fine blooming size at \$12.00 per 1000. No. 3 of No. 1900, \$6.50 per 1000. Cash with order.

JOHN FAY KENNEL
 Gladiolus Specialist,
Chili, Monroe County, N. Y.
 Mention the Florists' Exchange when writing.

LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an untried seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.
WEST GROVE, PA.
 Mention the Florists' Exchange when writing.

J. M. THORBURN & CO.
 HIGH CLASS
Seeds and Bulbs

WERE AWARDED
TWO GRAND PRIZES
 AT THE ST. LOUIS EXPOSITION

WE HAVE NOW ON HAND, IN FINE CONDITION

Lilium Auratum, 9 to 11 inches, \$7.00 per 100
L. Speciosum Melpomene, 7 to 9 inches, \$6 per 100

We are offering this season the two greatest novelties of the past century, the **NOROTON BEAUTY POTATO** and the new **Crimson Tobacco Plant, NICOTIANA SANDERÆ.**

J. M. THORBURN & CO.,
 36 CORTLANDT STREET, NEW YORK

Mention the Florists' Exchange when writing.

FLORISTS

ALWAYS BEST IS CHEAPEST



SELAGINELLA LEPIDOPHYLLA

RESURRECTION PLANTS

Extra fine for Easter Store Trade... First size, large plants... Second size, good...

CYCAS REVOLUTA STEMS

Weight, 1/2 lb. to 10 lbs., per 10 lbs., \$1.20; per 100 lbs., \$10.00; case of 300 lbs., \$25.00.

For 15 years we have supplied the Leading Growers with

PALM SEEDS

Table listing various palm seeds such as Areca Lutescens, Kentia Belm, etc., with prices.

ASPARAGUS SEEDS

Table listing asparagus seeds like Asparagus Plumosus Nanus, Sprengeri, etc., with prices.

Orders now booked for Harrisii, Calla, Freesia and all Dutch and French Bulbs, Azaleas, etc. Send for Our Catalogues.

ESTABLISHED 1878 H. H. BERGER & CO., 47 BARCLAY ST., NEW YORK

AMARYLLIS

For forcing, also outdoors. ... \$12 100 ... \$0.75 \$5.00 ... \$0.60 3.00 ... \$2.75 20.00

ISMENE

... pure white, grand forcer and bloomer... \$0.75 5.00

BEGONIAS

(Tuberous-Rooted) ... single, in separate white, rose, scarlet, crimson, yellow, orange, 1 1/2-2 inch... \$0.40 2.50

CALADIUM

(Elephant's Ear) ... 7 inch, all round center shoots... \$0.30 2.00

CALADIUM

(Fancy-Leaved) ... from Brazil in April. The grandest collection of rare and brilliant colored foliage bulbs... \$3.00 20.00

GLADIOLI

American Hybrids, the best... \$12 100 1000 ... \$0.25 \$1.25 \$10.00 ... \$0.20 1.00 7.00

GLOXINIAS

Large, Plump Bulbs... \$12 100 ... \$0.60 \$4.00 ... \$0.60 3.00

ONIONS AND BUNCH CROPS.

The Texas Agricultural Experiment Station issues a bulletin (No. 77), giving results of tests of onions, beets, radishes, lettuce, carrots and turnips.

DRIED MUSHROOMS.

By a ruling of the U. S. Circuit Court, Southern District of New York, February 15, 1905, mushrooms dried merely by evaporation of the sap are not dutiable under paragraph 241, tariff act of 1897.

VEGETABLE ALBUM.

We acknowledge receipt, with thanks, of a copy of Part I of the Vegetable Album, being issued by Ernest Benary, Erfurt, Germany.

European Notes.

The present is the day of small things, and the small orders which are constantly reaching us show that a conservative spirit is ruling on your side as well as on ours.

IRIS

In all sorts. ... \$12 100 ... \$0.75 \$5.00 ... \$1.25 10.00

LILIES

Lil. Auratum, 8 x 9 ... \$0.70 4.75 ... Lil. Rubrum, 8 x 9 ... \$1.25 7.50

MADEIRA VINES.

... \$12 100 ... \$0.20 \$1.25 \$10.00 ... \$0.16 1.00 7.00

TUBEROSES

Fine white clean stock. ... \$0.20 1.00 7.00 ... \$0.10 0.40 3.50

FINE FORCING SHRUBS

JAPAN MAPLES, multigrafted... \$0.60 \$6.00 ... DAPHNE GENKWA, covered with a mass of delicate lavender flowers... \$3.00 3.00

GIANT DAISIES

Novelties in Burbank's Productions, strong plants; California, Alaska, Westralia... \$0.25 2.50

PAEONIAS

Rare Japan Herbaceous, single, semi-double, double; all colors, in finest assortment... \$2.50 20.00

FERN BALLS

7 x 9 inch ... \$0.30 3.00

FERN DESIGNS

Sell fine for Easter, or for summer verandas, window displays. We offer Monkey in Swing, Japanese Soldiers, Lor Cabins, Frogs, Turtles, Full-rigged Ships, Chinese Lanterns, Flying Birds, each, 70 cts.; 12, \$7.50.

JAPAN HYDRANGEAS

To close out an importation of these we offer fine pot-grown sorts, just the thing to raise a fine stock from cuttings. Novelties in rose, blue, Daybreak color, single, semi-double and double flowered. Each, strong plant, 36 cts.; doz., assorted, \$3.00.

SEEDS

For Present Sowing See Timme's Timely Teachings, page 349, issue of March 18th.

Table listing various seeds like ASTERS, PEONY Perfection, CANDYTUFT, ANTI-RHINUM, etc., with prices.

H. H. BERGER & CO., 47 BARCLAY ST., NEW YORK

Mention the Florists' Exchange when writing.

the speculators will breathe a sigh of relief. In the meantime, their efforts to look pleasant are painful to witness.

A movement is on foot to present a testimonial to the veteran sweet pea specialist, Henry Eckford. Although his age is over four score years, he is still hale and hearty, and would no doubt be gratified to receive some public recognition of the work to which he has devoted the best years of his life.

THE BRITISH SEED TRADE.—In a comprehensive article on this subject by S. B. Dicks, of London, appearing in the March 9 issue of the Journal of Horticulture, he says:

The sphere of operations of the British Seed Trade is bounded only by the "girdle of the earth." British emigrants are to be found in every part of the world, and, as they carry their home tastes with them, the home land is called upon to provide the means of their gratification.

One very gratifying evidence of the progress made by the British Seed Trade is to be found in the large continental business done by some of our most enterprising firms. Catalogues in the different languages, in which are quoted in the weights and currency of the different countries, the varieties most serviceable, and which can be grown and offered to the best advantage, prove that the British seedman is not behind his continental rival either in ability or enterprise. Here

it may not be out of place to say a few words respecting the seedsman's catalogue.

In these days of rush and hurry, everything has to be made easy to everybody. The seedsman has, however, not only to provide the seed, but also to advise as to how it can best be grown, and this is mainly done by means of his catalogue.

The history of the British Seed Trade during the past two centuries is one long record of solid, useful work, carried on in the face of great natural difficulties and discouragements, seldom sufficiently appreciated and never adequately remunerated.

As regards novelties, it is possibly true that Britain has not sent out so great a number as some continental countries, but those introduced have been of a more valuable and lasting character. Take, for example, broccoli and peas. In John Mason's catalogue for 1793 ten sorts of peas, all of inferior quality and productiveness, and two sorts of broccoli—the Italian white and purple—are all that were quoted.

matto; while in flower seeds the lists of calcolaria, cineraria, candytuft, godetia, nasturtium, primulas, sweet peas, and wallflowers bear eloquent testimony to the ability and intelligence of the men by whose efforts they have been produced.

CATALOGUES RECEIVED.

HORACE RIMBY, Collegeville, Pa.—Price List of Seeds, Plants, and Bulbs.

WILLIAM A. PETERSON, Chicago, Ill.—Price List of Ornamental Trees, Shrubs, Vines, etc.

WOOD BROS., Fishkill, N. Y.—Trade List of Roses, Cannas, Carnations, Chrysanthemums, Bedding Plants, etc.

COTTA NURSERY AND ORCHARD COMPANY, Rockford, Ill.—Catalogue of Fruit and Ornamental Trees, Shrubs, etc.

SACKETT BROTHERS, Lebanon Springs, Pa.—Wholesale Price List of Ornamental Trees, Shrubs, Herbaceous Plants, Vines, Roses, Ferns, etc.

FRED'K W. KELSEY, New York.—Catalogue of Choice Trees and Hardy Shrubs. Profusely illustrated. A very complete and valuable catalogue. Also List of Rhododendrons.

KROESCHELL BROS. COMPANY, Chicago, Ill.—Descriptive catalogue of the Kroeschell Improved Hot Water Greenhouse Boiler. A long list of those in the trade using this firm's boilers show their popularity.

NEW HAVEN NURSERIES, New Haven, Mo.—Illustrated Catalogue of Fruit Trees, Small Fruits, etc.—The portraits of the group of fine boys, and other babies, appearing in the catalogue, show that the Messrs. Bagby are not believers in race suicide.

ANDORRA NURSERIES (Wm. Warner Harper, proprietor), Chestnut Hill, Pa.—Calendar of Hardy Perennials for the old-fashioned Garden, with Special Lists showing months in which plants bloom, height, etc.; also Price List of Specimen Trees, Shrubs, Roses, and Fruit.

LAGER & HURRELL, Summit, N. J.—Illustrated and Descriptive Catalogue and Price List of Orchids. A unique, well-printed, and handsomely illustrated catalogue, enumerating what is probably the largest collection of commercial orchids in the country, by the most successful growers of these plants. Valuable cultural hints are furnished.

NEW DAHLIAS OF PROVED MERIT

Embracing a complete set of 12 New Century Dahlias; 25 Superb New Cactus Dahlias; New Collarette Dahlias; New Giant-Flowered Dahlias; New Fancy Dahlias; New Decorative Dahlias; New Show Dahlias; New Single Dahlias. In all, 38 of the most wonderful Single Dahlias ever produced, and 44 of the grandest Double Dahlias.

All exquisite in form, shape, and coloring; free bloomers and MONEY MAKERS. Faithfully and truthfully described in our new illustrated descriptive catalogue, mailed free upon request.

L. K. PEACOCK, Atco, N. J.

Mention the Florists' Exchange when writing.

F. W. O. SCHMITZ

PRINCE BAY, N. Y.

Wholesale Importer and Exporter of

Bulbs, Plants, Roots, Etc.

All Inquiries Cheerfully Answered

Mention the Florists' Exchange when writing.

1904 CROP ASPARAGUS SEED

	Per 100	Per 1000
Plumous Nanus.....	55c.	\$3.50
" Robustus.....	85c.	7.50
" Sprengerii.....	15c.	1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.

MOORE & SIMON, Seed Growers
207 Market Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

TARRAGON GENUINE STOCK

PLANTS AND ROOTS
H. MALLIET, Bound Brook, N. J.

Mention the Florists' Exchange when writing.

CACTI, ORCHIDS BULBS. SEEDS

Send for trade list. Six gold medals at St. Louis

J. A. McDOWELL
Apartado 167 City of Mexico

Mention the Florists' Exchange when writing.

ASTERS

Olmstead's White Commercial, trade pkt., \$1.00; trial pkt., 100 seeds, 25c. if you agree to report success. The result of 13 years' careful work. Circulars showing seed field in bloom and testimonials, free.

C. A. OLMSTEAD, East Bloomfield, N. Y.

Mention the Florists' Exchange when writing.

If you are uncertain regarding the quality of our Bulbs, write for good words others say for them.

HUBERT & CO.

N. LePAGE, Rep. MT. VERNON, N. Y.

Mention the Florists' Exchange when writing.

GLADIOLI, Etc.

	Per 100	Per 1000
Gladfoli Groff's.....	\$1.25	Erlanths Ravenna \$2.00
" mixed.....	1.00	Galliards, Grand.. 2.00
Spotted Leaf Calla..	2.00	Shells Daley..... 2.00
Myrtle, Hardy.....	1.00	Hardy Pinks, Field.. 3.00
Sweet William cl'ps	2.00	Stokesia Cyanes... 3.00
Madeira Vine Tubers, 30c., 50c., 75c., \$1.00.		

Samples Free.

S. J. CALLOWAY, Eaton, Ohio

Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.

Catalogues free on application.

WEEBER & DON, Seed Merchants and Growers,
114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

Tarragon Plants

THE TRUE VARIETY

Well formed plants—suitable for mail trade—\$3.50 per 100
Large, field-grown plants—\$5.00 per 100

Horse Radish Sets, Rhubarb Roots, Asparagus Roots,
Holt's Mammoth Sage, Meadow and Peppermint
FINE PLANTS AND LOW PRICES

J. T. LOVETT, Little Silver, N. J.

Mention the Florists' Exchange when writing.

CANADIAN NEWS

TORONTO.—Business is now rather dull, with stock extra plentiful and good. Outside of funeral work and a medium demand for flowering plants there is little doing.

The March meeting of the Gardeners and Florists' Association was held March 22 at St. George's Hall and was devoted mostly to carnations. F. K. Pierson Company, Tarrytown, N. Y., sent several fine lots of its new introductions. Siebrecht & Son sent a vase of their growing, of that fine rose, Killarney. George Hollis read a paper on producing new varieties of carnations. I will send a copy of the paper next week, as well as a copy of the judges' report. Weber & Sons, Oakland, Md., sent a fine vase of My Maryland, and George Hollis exhibited a few flowers of a fine white seedling. THOS. MANTON.

LONDON, ONT.—Local trade has been but little affected by the Lenten season. Flowers are of excellent quality, but the unusually cold weather prevailing has effectually prevented anything like a surplus in any line. Roses of all varieties are meeting ready sale. Carnations are probably more popular this year than formerly. Single violets, which continue exceptionally fine, are very much in demand; the doubles are showing signs of passing. Bulbous stock, as usual, is plentiful. The cold spell has necessitated some forcing of Easter lilies; but stock will be in on time and in excellent condition. The plants that are not utterly worthless of the longiflorum type, will be very fine; but, again, unfortunately there is the usual large percentage of the trash that is good for nothing but the dump. It seems to me to be getting time some action was taken to prevent this form of Japanese smartness.

The local horticultural society is beginning to get into shape for its Summer work. One innovation it has announced will be \$100 in three prizes for flower beds around the Horticultural Building at the Western Fair. The beds can be planted at any time up to the opening day of the Fair.

The greenhouses lately operated by the London Floral Company are closed down.

From advices received it appears that the Canadian Florist has changed hands; the initial issue under new management will come out on April 1.
FRED. BENNETT.

Grand Rapids, Mich.

News Items.

Nick Freyling is very sick with cancer in the stomach. William Cunningham is much improved from his last operation.

There is already talk of more building for this year; the growers have clubbed together and bought a carload of glass for immediate delivery.

Prices the past week were: Roses, \$1 to \$1.50; American Beauty, \$1.50 to \$5 per dozen; carnations, 40c. to 75c. per dozen; callas, \$2; lilies, \$2 to \$3 per dozen; violets, 10c to 20c per bunch of 25; narcissus, 75c. per dozen; Roman hyacinths, 50c.; lily of the valley, 50c. per dozen.
G. F. C.

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of
GLADIOLI AT THE
WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.

Write for Catalogue. ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York
Mention the Florists' Exchange when writing.

BERMUDA HARRISII BULBS

THE "SEMPER IDEM" BRAND

I AM NOW BOOKING ORDERS FOR
JULY AND AUGUST DELIVERY
PRICES ON APPLICATION

CHAS. A. V. FRITH HAMILTON, BERMUDA

Mention the Florists' Exchange when writing.

SURPLUS

OF THE

Elizabeth Nursery Co.

Large trees of Lindens, Maples, Poplars, Beeches, Catalpas and Pin Oaks. In weeping trees, of large size, we have Beech, Young's Weeping Birch, Camperdown Elm 10 ft. stems and 3 inch diameter, and Weeping Mulberries

Willow Vitellina, fine, 5 to 6 ft.	Per 100 \$6.00
Willow Vitellina, fine, 6 to 8 ft.	10.00
Willow Vitellina, fine, 8 to 10 ft.	15.00

Evergreens

We have a large and fine selection of Evergreens, transplanted two years ago. We only mention a few below. Send for our wholesale list.

Norway Spruce, 2 to 3 ft.	Per 100 \$20.00
Norway Spruce, 3 to 4 ft.	40.00
Norway Spruce, 4 to 5 ft.	50.00

Weeping Spruce, Nordman's Fir, Pungens Glauca Kosteri, Cedrus Deodora, Cryptomeria, Mugho, White, Austrian and Scotch Pine.

Arbor Vitæ, American, 5 to 6 ft.	Per 100 \$70.00
Arbor Vitæ, American, 6 to 7 ft.	100.00
Arbor Vitæ, Geo. Peabody, largest stock in this country. See wholesale list for sizes and prices.	

Hemlock, 2 to 3 ft.	Per 100 \$25.00
Hemlock, 3 to 4 ft.	60.00
Hemlock, 4 to 5 ft.	75.00

Retinispora Filifera, 3 to 4 ft.	Each \$1.50
Retinispora Filifera Aurea, 18 to 24 in.	1.50
Retinispora Plumosa Aurea, 2 to 3 ft.	1.25
Retinispora Plumosa Aurea, specimen, 3 to 4 ft.	3.00
Retinispora Squarrosa Veit., specimen, 4 to 5 ft.	5.00

Juniper Virginiana, Virginiana Glauca, Japonica Aurea, Pinus Cembra, Sciadopitys Verticillata and Taxus in variety.

50,000 Boxwood

3 to 4 in.	Per 1000 \$15.00
4 to 5 in.	30.00
5 to 6 in.	50.00
12 in.	200.00
12 to 15 in.	300.00
2 to 5 ft.	See wholesale list.

Euonymus Radicans	Per 100 \$6.00
Euonymus Radicans, Variegata	6.00
Rhododendrons, collected	Per car \$75.00

California Privet

California Privet, 12 to 15 in.	Per 1000 \$9.00
California Privet, 18 to 24 in.	15.00
California Privet, 2 to 3 ft.	20.00
California Privet, 3 to 4 ft., heavy.	40.00

Altheas, Double, 3 to 4 ft.	Per 100 \$7.00
Altheas, Double, 5 to 6 ft.	15.00
60,000 Azalea Amoena	See wholesale list for sizes and prices.

Hydrangeas

Hydrangea P. G., 5 to 6 ft.	Per 100 \$30.00
Hydrangea P. G., 3 to 4 ft., X fine.	9.00
Hydrangea P. G., 2 to 3 ft.	6.00
Hydrangea P. G., Standards, 1st cl.	15.00

Jessamine, Yellow and White	6.00
Berberis Thunbergii, 12 to 18 in., transplanted, heavy	6.00
Berberis Thunbergii 18 to 24 in.	9.00
Cornus in variety. See list.	
Deutzias. See wholesale list for prices. 15 varieties of Spiræas. See wholesale list.	

Weigelias

Weigelia, Eva Rathke, (Crimson), Gustave Mallet (Pink), Floribunda (Red), Hortense Rubra (Rose). Variegated leaf and many other varieties.

2 to 3 ft., very strong	Per 100 \$6.00
3 to 4 ft.	7.00
4 to 5 ft.	9.00
5 to 6 ft.	15.00

Clematis Paniculata

Clematis Paniculata, 2 yr., No. 1.	Per 1000 \$50.00
Clematis Paniculata, 3 yr., XX.	70.00
Clematis Paniculata, XXX.	80.00
Ampelopsis Veitchii, No. 1, 2 yr.	50.00
Ampelopsis Veitchii, X.	70.00

Honeysuckles

Honeysuckle, Halleana, 2 yr., fine.	50.00
Honeysuckle, Halleana, X	70.00
Honeysuckle, Evergreen, Chinese, 2 yr.	50.00
Honeysuckle, Japan Golden, 2 yr.	35.00
Honeysuckle, Japan Golden, 3 yr.	50.00
See wholesale list for other varieties.	

Wistaria, 5 yr. old, XXX.	Per 100 \$15.00
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Roses

Creeping or Trailing Roses, 2 yr.	Per 100 \$6.00
Evergreen Gem, (White), Gardenia (Yellow), So. Orange Perfection (Pale Pink), Manda's Triumph (White), Pink Roamer (Pink), Universal Favorite (Pink), Jersey Beauty (Yellow), Wichuraiana (White).	

Climbing Roses

Empress of China.	Per 100 \$6.00
Crimson Ramblers, 3 to 4 ft.	16.00
Dorothy Perkins, 2 yr.	10.00
Dorothy Perkins, 4 in. pot plants.	10.00
Rosa Rugosa, 2 yr.	12.00

Hybrid Perpetual Roses

Field grown, 2 yr., \$10.00 and \$12.00 per 100.

Anne de Diesbach, Baron de Bonstetten, Baroness Rothschild, Fisher Holmes, Francois Levet, General Jacqueminot, Gloire Lyonnaise, John Hopper, Mme. G. Luizet, Mrs. J. H. Laing, Magna Charta, Margaret Dickson, Paul Neyron, Ulrich Brunner, Vick's Caprice.

4-in. Pot Roses, XX fine. 84 varieties of Roses in 4-in. pots. For prices and varieties, see page 16 of our wholesale list.

600,000 Roses in 2-in. Pots

We have one of the finest stocks of well-grown Roses in 100 varieties, in 2-in. pots, in this country. We will be glad to estimate on orders for this Spring or for future delivery.

Herbaceous Plants

We have upward of 300,000 field-grown plants, not including 45 varieties of Hardy Phlox and 200 varieties of Pæonias, and over 200,000 2-in. pot plants. We will only mention a few varieties.

Aquilegia, field grown, 250 plants in variety, for	\$10.00
Achillea, field grown, 250 plants in variety, for	9.00
Coreopsis, field grown, 250 plants in variety, for	7.00
Digitalis, field grown, 250 plants in variety, for	8.50
Helianthus, field grown, 250 plants in variety, for	7.50

Hemerocallis, field grown, 250 plants in variety, for	7.50
Hibiscus, field grown, 250 plants in variety, for	7.50
Sedum, field grown, 250 plants in variety, for	7.00
Golden Glow, field grown, 250 plants in variety, for	5.00
Iris, Blue, field grown 250 plants in variety, for	5.00

Pæonias

Named varieties	Per 100 \$10.00
Large Double Pink	6.00
Prince of Wales (Pink), large clumps, 8 to 20 eyes.	12.00

Phlox, Field-grown

We have 30 varieties in field-grown plants at \$5.00 and \$6.00 per 100. About 50,000 Phlox in 2-in. pots, \$3.00 per 100; \$25.00 per 1000. For varieties, see wholesale list, pages 22 and 23.

Grasses

In 8 varieties, from \$2.00 to \$10.00 per 100. See wholesale list, pages 18 to 19.

Hardy Pompon Chrysanthemums 70 Varieties

See wholesale list, page 23.	
Field-grown plants	Per 100 \$6.00
2-in. pot plants	2.50
1000 field-grown Herbaceous plants, our selection, for \$25.00.	

160 Varieties of Herbaceous Plants in 2-in. pots, a general assortment at \$3.00 per 100, or \$25.00 per 1000

This list is made up of entirely different varieties from our field grown plants, and list of varieties will be sent on application

Dahlias

2-in. Pot Plants	Per 100 \$3.00
35 varieties of Dahlias, 2-in. pots.	

Cannas

Dry Bulbs, varieties below	Per 100 \$2.00
Chas. Henderson, Mme. Crozy, Duke of Marlborough, L. Patry, Alsace, Imp. Pillar of Fire, Austria, Alphonse Bouvier.	
4-in. pots, \$8.00 per 100	
Black Beauty, Imp. Pillar of Fire, Pennsylvania.	
4-in. pots, \$8.00 per 100	
Alphonse Bouvier, Alsace, America, Austria, Beaute Poitevine, Chas. Hender-	

son, Duke of Marlborough, Florence Vaughan, Italia, Kate Gray, L. Patry, Lauray, Mme. Crozy, Mme. Blush, Pres. McKinley, Queen Charlotte, Robusta, Robert Christie, Sam. Treleass, Secretaire Chabane, Tarrytown.

Coleus

2-in. pot, \$2.50 per 100; \$25.00 per 1000	
Butterfly, Fire Brand, Spotted Gem, Gem, Golden Bedder, Verschaffeltii, Marginata, Perfection.	

Salvias

2-in. pot, \$2.75 per 100; \$25.00 per 1000	
Alfred Baganeau, La President, Bonfire, Splendens, Leconteaux, Wm. Bedman.	

YOUNG STOCK FOR TRANSPLANTING. Evergreens and Shrubbery. Prices on application.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

DID YOU OVERLOOK BUYING?

If so, and you are in the **Market** for the following goods, I can outfit you with **stock**, that is **right**.
 Avoid cheap surpluses and **culls** from **European Market** and let your **Motto**, as well as mine, be: "**QUALITY**—first, last, all the time!"

ROSES

CRIMSON RAMBLER

Large strong plants, two year-old, 4 to 6 ft. long, per 10, \$1.75; per 100, \$15.00; per 1000, \$120.00.
 Second size plants, 4 ft. long, per 10, \$1.50; per 100, \$12.00; per 1000, \$111.00.

HARDY H. P. ROSES

Exceptionally strong two-year-old dormant plants; budded low on Manetti stocks.

- Alfred Colomb. Carmine.
- Ball of Snow. Pure white.
- Baron de Bonstetten. Dark crimson, shaded.
- Baroness Rothschild. Satiny pink; extra.
- General Jacqueminot. Rich velvety crimson.
- General Washington. Beautiful red, shaded carmine.
- John Hopper. Brilliant rose-pink.
- La France. The finest light pink.
- Margaret Dickson. White, pale flesh center.
- Magna Charta. Clear rosy pink.
- Mme. Gabriel Luizet. Light, satiny pink.
- Mme. Plantier. White.
- Mrs. John Laing. Soft pink; most desirable variety.
- Paul Neyron. Beautiful dark pink.
- Princesse Camille de Rohan. Velvety crimson.
- Ulrich Brunner. Cherry red.

\$1.50 per 10, \$11.00 per 100, \$100.00 per 1000.
 Write for full list of Roses for Fall delivery.

Kaiserin Augusta Victoria, Gruss an Teplitz, Caroline Testout, Hermosa, \$1.75 per 10, \$15.00 per 100, \$120.00 per 1000.

SPRING BULBS

HARDY JAPAN LILIES

LILIUM AURATUM—	Per 100	Per 1000
8 to 9 in. bulbs, 130		
in case	\$4.50	\$40.00
9 to 11 in. bulbs, 100		
in case	7.50	70.00

LILIUM SPECIOSUM ALBUM—

	Per 100	Per 1000
8 to 9 in. bulbs, 220		
in case	\$7.00	\$65.00
9 to 11 in. bulbs, 140		
in case	15.00	135.00
11 in. and over, 100 in case	18.50	

LILIUM SPECIOSUM RUBRUM—

	Per 100	Per 1000
8 to 9 in. bulbs, 220		
in case	\$5.50	\$50.00
9 to 11 in. bulbs, 140		
in case	8.50	80.00
11 in. and over, 90 in case	12.50	115.00

CALADIUM ESCULENTUM

(Elephant's Ears.)

Bulbs measuring 6 to 8 ins. in circumference, \$2.00 per 100; \$15.00 per 1000.
 Bulbs measuring 8 to 10 ins. in circumference, \$3.50 per 100; \$30.00 per 1000.
 Bulbs measuring 10 to 12 ins. in circumference, \$5.50 per 100; \$50.00 per 1000.
 Monster bulbs measuring 12 ins. and upward, \$10.00 per 100.

CALADIUMS—Fancy Leaf

STRONG SELECTED BULBS.

	Per doz.	Per 100	Per 1000
Fancy leaved named sorts, 20 varieties	\$1.50	\$10.00	
Fancy leaved mixed sorts	1.00	6.00	

CALLAS—Spotted Leaf

	Per 100	Per 1000
Very free Summer blooming variety	\$3.00	\$25.00

GLOXINIAS

	Per 100	Per 1000
Named Varieties—Crimson, scarlet, blue, white, purple, spotted.	\$3.00	\$28.50
All colors mixed, bulbs 1 1/4 in. and up	2.75	25.00

TUBEROSES

	Per 100	Per 1000
Double Pearl, first size bulbs, measuring 3 to 4 ins. in circumference	\$0.50	\$4.50
Double Pearl, selected bulbs, 4 to 6 ins. in circumference	1.00	6.50

PAEONIES

JAPANESE TREE PAEONIES.

Extra strong plants, 12 distinct varieties. \$6.00 per doz.; \$45.00 per 100.

HERBACEOUS PAEONIES.

The roots offered below are extra strong pieces, having 3 to 5 eyes each.

PAEONY OFFICINALIS.

	Per 100
Rubra, rich deep crimson; the earliest of all Paeonies	\$8.00
Rosea, bright rose, early, and forces well for Easter	20.00
Alba plena, white	15.00

PAEONY CHINENSIS.

Red varieties, named	10.00
Pink varieties, named	12.00
White varieties, named	15.00

GLADIOLUS

	Per 100	Per 1000
Angusta. The best florists' white Gladiolus in existence; picked bulbs, 5 to 8 ins. in circumference	\$4.00	\$35.00

QUALITY SEED BULBS PLANTS

SEND FOR CATALOGUE.

ARTHUR T. BODDINGTON.

342 West 14th St., New York.

Augusta. First size, 4 1/2 to 6 ins. in circumference

	Per 100	Per 1000
1900. Nothing finer for florists' use. Flower is of a rich shade of red with very prominent white spots on three lower petals	2.00	16.00
Groff's Hybrids (originator's strain), extra selected bulbs	2.50	20.00
Shakespeare, white and rose	5.00	45.00
May, pure white, flaked, rosy crimson, the best forcer	1.75	15.00
Boddington's White and Light, extra selected	2.00	15.00
American Hybrids, a mixture of the choicest varieties of Gladiolus in cultivation, very fine	1.00	9.00
Striped and Variegated	2.50	20.00
Pink and Rose shades	1.25	11.50
Scarlet and Red shades	1.00	8.00
Lemoine's Hybrids	1.25	11.00
Childsii	2.50	20.00
Finest mixed, small bulbs, but excellent varieties	.75	6.50

DIELYTRA SPECTABILIS

(Bleeding Heart)

An Excellent Plant for Decoration Day. Strong forcing clumps, \$1.25 per doz.; \$7.50 per 100.

CYCAS REVOLUTA—Dry Stems

Cycas or Sago Palm. Per 10 lbs., 10c. per lb.; 100 lbs., 9c. per lb.; whole case, 7c. per lb.

BAMBOO STAKES

6 ft. long. \$6.00 per 1000; per bundle of 2000, \$10.00. I also sell Quality Seeds and Fall Bulbs.

ARTHUR T. BODDINGTON, 342 West 14th St., New York

Mention the Florists' Exchange when writing.

PRIVET FOR SALE

Three hundred and fifty thousand (350,000) plants, all sizes, and of 2, 3 and 4 years old. All cut back, and now forked with three or four stems. Suitable for quickly making a thick hedge. We offer in four sizes, 2, 3, 4 and 5 feet high. Prices cut in half. F. O. B. Bristol, Pa.; terms 30 days from date of shipment. Do you want any—what size and how many? Orders now booked for shipment in March and April.

D. LANDRETH SEED COMPANY, Bristol, Pennsylvania

Mention the Florists' Exchange when writing.

AMERICAN TREE SEEDS AND PLANTS

Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it.
OTTO KATZENSTEIN & CO.
 Tree Seeds and Plants Specialists, ATLANTA, GA

Mention the Florists' Exchange when writing.

NORWAY SPRUCE SEEDLINGS

4 to 6 in., \$3.00 per 1000; 10,000 for \$25.00.
 Norway Spruce Seedlings, 3 yrs., 6 to 9 in., \$5.00 per 1000; 10,000 for \$45.00.
 Send for Trade List of Surplus.
 Jenkins' Evergreen & Seedling Nurseries, Winona, O.
 Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street
 WEEHAWKEN HEIGHTS, N. J.
 P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES
 Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Crown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE
 Mention the Florists' Exchange when writing.

700,000 CAL. PRIVET

	Per 100	Per 1000
3 years, 2 1/2 to 3 ft., extra heavy	\$3.25	\$25.00
3 years, 2 to 2 1/2 ft., well branched	2.50	23.00
3 years, 18 to 24 in., well branched	2.00	15.00
3 years, 12 to 18 in., 4 to 8 branches	1.50	10.00
2 years, 3 1/2 to 4 ft., very heavy	3.00	25.00
2 years, 2 1/2 to 3 ft., well branched	2.25	18.00
2 years, 2 to 2 1/2 ft., well branched	2.00	15.00
2 years, 2 to 2 1/2 ft., 3 to 8 branches	1.50	10.00
2 years, 18 to 24 in., 5 to 8 branches	1.50	10.00
1 year, 14 to 20 in., 2 to 4 branches	1.25	7.00
1 year, 10 to 14 in., 1 to 2 branches	1.00	5.00
Cuttings, strong		.75
Tree form, 3 years, heads 4 to 5 feet		25c. each

All the above plants have been transplanted and cut back except one year, which makes them a clean, good stock. Parties wanting 5000 or over will write and get better rates.

J. H. O'HAGAN
 River View Nurseries, Little Silver, N. J.
 Mention the Florists' Exchange when writing.

ANDORRA'S PIN OAKS

TO THE TRADE ONLY:

This spring we will move a block of Pin Oaks that have been twice transplanted. In good roots, stems, caliper and tops they will please critical buyers.

SPECIAL PRICE FOR MARCH AND APRIL ORDERS:

6 to 7 ft.	\$6.75 per 10	\$32.00 per 100
7 " 8 "	8.00 "	40.00 "
8 " 9 "	10.00 "	44.00 "
9 " 10 "	14.00 "	48.00 "
10 " 12 "	18.00 "	60.00 "

The above prices are the lowest at which a No. 1 grade has ever been offered. These trees are absolutely first class. Not less than 10 trees at the 10 rate, 25 trees at the 100 rate. Packing additional. ORDER NOW.

TERMS: Usual catalog terms and conditions.

WM. WARNER HARPER, Proprietor

Andorra Nurseries, Chestnut Hill, Philadelphia

Mention the Florists' Exchange when writing.



THE PIN OAK AS A STREET TREE

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Nursery Prospects for Spring.

Previous to the closing of Winter the prospects were but fair in both the wholesale and the retail line, but within the past few weeks the calls for stock are much better, indicating a business perhaps equal to that of last Spring, which was very good. The continuance of rather cold weather at this date, March 16, precludes the chances of an early start with shipping, which will mean a rushed and a short season. But lots of snow has kept the ground unfrozen nearly everywhere in the North, so that, with the disappearance of the snow, digging can commence.

As to the supply itself, in the wholesale line, taking first fruit seeds; excepting natural peach stones, of which there was a shortage, there seemed enough seeds to meet the demand, but none to spare. Should the season be favorable for the germination of the seeds and growth of the stocks, there should be the usual supply of home-grown seedlings in the Fall.

Of tree seed, that of the hemlock spruce was almost

maples, cut-leaved birch, Teas' mulberry, Catalpa Bungei, hemlock spruce, and even good Norway spruce and American Arbor vitae in large sizes. Good Norway maples and Catalpa Bungei are quite scarce, with high prices attached to what is available.

As nurserymen about completely filled up their vacant ground last season, the indications are that there will be hardly as much planting done by them this Spring unless very large orders clean the ground of what it now contains.

Myrobolan Hedges.

For many years past the gardeners of England have been using the myrobolan plum as a hedge plant, and from the reports of it from time to time which appear in their papers it makes a most satisfactory hedge. The nurserymen there advertise it as a defensive hedge plant, and this claim is no doubt correct, from the way it grows here. This subject is referred to now to call attention to the possibility of this plum being used in this country in a similar way to advantage. From the habit of its growth, by proper pruning it could, certainly, be made into such a thicket as would deter an ordinary animal from breaking through it. There are not many hedges of a defensive character used now-a-days. Wire has taken their places, and where it has not, the osage orange and honey locust are not always desirable, their tree-like habits calling for such heavy pruning. The myrobolan plum is but of plum tree height, so that when used in hedge shape it is easily kept under control. To those looking for a hedge of a different character from what we now have, the plum in question is recommended for trial. It is a "shrub" which

man sends the trees at his own risk, and if the customer is not satisfied it is the sender's loss, not his. Nurserymen can be found who have tried both ways, and they say one is about on a level with the other. The customer may keep the tree sent, though not approving of it, rather than raise an objection, and if no substitution is made where it would have created no difference, he may not approve of that. I believe that it is better not to have a rule, but to be guided by one's knowledge of his customer. Usually, if the customer's interest be kept in mind, as well as one's own, there will be no trouble from a substitution made with a full understanding of all the conditions, and the acceptance of the substitution to be at the pleasure of the buyer.

In the case of farmers and fruit growers, among whom the Practical Farmer largely circulates, it would be a risky business to substitute without permission first obtained. These folks buy fruits largely, and they want certain kinds often wholly for market purposes, and another pear, apple or peach than the one named, though it be nearly the same thing, might not suit at all. It is, as aforesaid, a matter admitting of no rule, but in all cases if loss there be from substitution, it is for the nurseryman to bear it!

Palms and Cacti for Fairmount Park, Philadelphia.

Under the heading, "Europe's Plants Come Here," the Philadelphia Public Ledger contains the following: "Europe's nurserymen are to contribute to the beautification of Fairmount Park and the value of the collection in Horticultural Hall as the result of a successful trip abroad made by Oglesby Paul, on money provided by residents of this city who do not care to have their names appear in the matter."

"Among the new things to be placed in the hall are palms from the collection of 507 varieties in the Kew Gardens, near London; there are now about 100 varieties in the hall. Work will soon begin, Mr. Paul said, on the reconstruction of the southwest room of the hall, for which purpose \$10,000 was recently appropriated by Councils. A new collection of cacti is to be placed in the room when finished. Daniel Newhall, of the Pennsylvania Railroad, has been of great assistance in the work of obtaining this new collection, much of which comes from Arizona."

Those acquainted with the park referred to and the collection of plants in its hall will hardly agree that the value of the collection of plants in the hall will be added to by including more palms among the 100 varieties now there. A great many visitors are of the opinion that there are now far too many palms and flowerless plants in the collection. The main structure contains almost wholly palms and foliage plants, and one wing of the building is given up to ferns. What the public most desires is a collection of flowering plants, in which line the hall is quite deficient. Those who visit the hall often will find the greatest crowd always in the wing of the building, where the few flowering plants are.

The collection of plants in the hall has no claim to being a scientific one. It is supposed to be for the gratification of the public; and the desire of everyone to visit and admire the flowering plants shows in which line additions should be made. And it is questionable whether a collection of cacti from Arizona will be of much interest in Winter, the season when indoor enjoyment is looked for. And are not many of these plants from that State hardy, requiring no room such as they are to receive?

The fact is, if there were fewer palms and ferns and cacti and more plants in flower in the Winter season, the public would feel they were getting better worth of the taxes they pay. Superintendents of all our public parks know that it is beautiful flowers that attract the visitors.

Mulberries for Stocks.

The short supply of Teas' weeping mulberry this season would suggest the time opportune to sow a lot of seeds of the *Morus alba* for stocks, as well as the making of hard wood cuttings of the same species to get up a supply of stock. Mulberry seeds sown in Spring, as soon as the ground is in a workable condition, are pretty sure to grow, and will give nice seedlings by Fall. But it will be a year or two from that time before they are fit for stocks. The aim should be to have the stocks straight, and this is best secured by cutting the young plants down almost to the ground when they are of a size almost fit to graft. This will result in strong shoots forming, strong enough and tall enough for budding, and straight, too.

Hard wood cuttings of the common sorts of mulberries root fairly well from cuttings, but Downing's will not; and these, grown for a year or two and then cut down, as recommended the seedlings should be, will give nice, straight stocks. The everbearing mulberries are raised both by budding and by grafting, budding preferred, but the Teas' weeping mulberry must be grafted on stocks 5 to 6 feet high, and this is to be done in early Spring, on the *Morus alba*, as already mentioned.

It is very likely the Japanese mulberry, *M. japonica*, would make a good stock for grafting. The impression prevails that it is of rather stronger growth than the white mulberry. JOSEPH MEEHAN.

Rhododendron Præcox.

The early flowering rhododendron has not the large blossoms of most of its compeers, and which most people would expect in a rhododendron; yet it is no less beautiful. It is of garden origin, supposed to be a hybrid between *R. dahuricum*, and *R. ciliatum*, both very pretty early flowering species. It blooms in March, or early in April, frequently so early that the flowers get blighted. It makes a good companion plant for the now deservedly popular *Azalea amena*. It is also a good plant for greenhouse decoration. W. H. WAITE.



Photo by W. H. Waite

RHODODENDRON PRÆCOX

a complete failure, so was that of sugar maple, American beech, many leading oaks and hickories and of the Douglas spruce. Of white pine, which is getting in great demand for forestry purposes, and of yellow locust and *Catalpa speciosa* desirable for the same purpose, the supply has been sufficient.

In the line of fruit stocks, there appeared to have been sufficient except in the way of Mahaleb cherry, which was short. And some late calls for pear from those who appeared to desire more than they had already engaged were not met in full. Although manetti stocks are not fruits, I may say here, that there seemed an insufficient supply; at least some importers could not meet the calls received for them.

Importers of nursery stock in the way of ornamentals have not imported nearly as much as in former years, not more than one-half, perhaps. But this does not indicate that less selling is anticipated. Last Spring importations were greatly overdone. The stock received then was first class, as a rule, and what was not sold is in prime order to-day, so that there should be enough to supply a good demand. Stock comes here in much better condition than it used to. Many nurserymen go across the water and personally select the stock and specify how it is to be packed.

In fruit trees, the wholesale trade may have their supplies; but in the retail trade, where much larger trees are desired, the stock wanted is not abundant.

Growers of herbaceous plants think the demand will be good and the supply fair. But few plants have been hurt; there has been such a good covering of snow, that but little heaving out of plants has occurred. Stock is good, and so are prospective sales. Thousands of these plants are sold now where dozens used to be.

Among evident shortages may be mentioned Norway

can usually be had at small cost, and in quantities, both from home raised and imported plants. This is the plum which is the most esteemed of all kinds for stocks by our nurserymen. Some years ago the mirabelle was used to some extent, but it proved such a terrible fellow in the way of suckering that it has been totally discarded. The marianna is valued by many, but more of the myrobolan is used than of any other, and now were it to come into demand for hedging, it would be still further valued.

Substituting Trees in Nurseries.

The Practical Farmer, of Philadelphia, asks its readers, I see, to give their views on the substitution of one tree for another by nurserymen, which, as the inquiry implies, is sometimes done. There are different rules in nurseries to meet this question when it arises. Some proprietors have a rule never to substitute without permission; others have no set rule, but are governed by circumstances. But none who aims to do a fair business makes a substitution without acquainting the purchaser of the fact. My own opinion is that, in many cases, a customer would prefer to have a substitution made, and to know when he has such a customer's order before him is where the experience and judgment of the nurseryman comes into play. If a new place is being laid out requiring certain trees in certain positions, a substitution is certainly risky. The same if a customer possesses a certain number of various kinds of fruit trees and makes out a list of others to add to the number of varieties. He then wants no substitutes. But if trees for certain uses on a lawn, or a collection of fruit trees, simply are wanted, very often the customer is more than satisfied when told of the changes made. The customer is not hurt in any case. The nursery-

HENDERSON'S GIANT INVINCIBLE ASTERS



A superior type, of healthy, robust growth, producing long-stemmed flowers of immense size and perfect form

THE latest and highest achievement in China Asters, a superior race in every way. The plants are of very healthy, robust, branching growth, about two feet high, producing, on long stems, massive, peony-formed flowers of perfect form and exceedingly double. They are the most beautifully formed of all large Asters. The petals are of thick and durable substance, and, in consequence, the flowers last long in perfection. These Asters are wonderfully prolific and continuous bloomers. When grown in masses in garden borders, or beds, their decorative effect is unapproachably gay. When well grown the flowers of Henderson's Invincible Asters average 3 1/2 inches across; 4-inch flowers are quite common, and if grown especially for cut flowers, the side branches pruned, allowing a plant to carry not over 8 or 10 flowers, one flower to a stem, their size will then be enormous, measuring 4 1/2 and 5 inches across. These magnificent blossoms, being gracefully poised on strong, well-leaved stems 15 to 18 inches long, resemble good-sized Chrysanthemums, and are unsurpassed as cut flowers for vases, etc.

"My Asters from your Invincible strain were the best at our flower show; fine blooms of the lavender were the best I ever saw, and I have grown Asters for 60 years."

CHAS. JAS. FOX, South London, Canada.

Price of Henderson's Invincible Aster Seed

Invincible rose pink	- -	pkt., 15c.; 1000 Seeds, 50c.
Invincible lavender	- - -	" 15c.; 1000 " 50c.
Invincible white	- - -	" 15c.; 1000 " 50c.
Invincible blue	- - -	" 15c.; 1000 " 50c.
Invincible crimson	- -	" 15c.; 1000 " 50c.
Invincible mixed colors	- -	" 15c.; 1000 " 40c.

PETER HENDERSON & CO. 35 and 37 **CORTLANDT STREET, New York**

Mention the Florists' Exchange when writing.

PRIVET! PRIVET! PRIVET!

We want to sell. Do you want to buy? If you do we can make the price to suit you.

Trees, Shrubs, Vines, Etc.,

In Large Assortment. Send for Wholesale List,

SHREWSBURY NURSERIES, Eatontown, N. J.

Mention the Florists' Exchange when writing.

SEED SUGAR CORN

EXTRA CHOICE STOCK.
Crosby's Extra Early, Selected,.....per bush. \$2.00
Country Gentleman,..... " 2.50
TOMATO SEED—Spark's Earlians,.....per lb. \$2.00
BEANS—Early Dawn (earliest lima),.....per qt. \$5

CHAS. B. HORNOR & SON, MT. HOLLY, N. J.

Mention the Florists' Exchange when writing.

LEASE EXPIRES.—Nursery Stock Must be Sold or Moved

Norway and Sugar Maples, European and American Linden, 1 1/4 in. caliper, 30c., 1 1/2 in. 35c., 1 3/4 in. 45c., 2 in. 60c. Straight trunks, good roots and heads. Altheas, 5 ft. 20c., Prunus Pissardi, 5 ft. 25c., White Fringe, 3 ft. 20c., Rhododendron Maximum, 3 ft. 75c., 4 ft. \$1.00, Catalpa Kämpferi spec. and Teas, 6 ft. 15c., Paper Birch 5 ft. 15c., English Elm, 3 in. \$1.00, 4 in. \$2.00. O me and see black American Elm and Norway and Sugar Maple, some large, bargain lot. Hemlock, Norway and White Spruce, Silver Fir, 2 to 3 ft. 25c., 3 to 4 ft. 35c., 4 to 5 ft. 50c., 5 to 6 ft. 60c., 6 to 7 ft. 75c. Colorado Blue Spruce, 2 ft. \$1.00.

NORWICH NURSERIES, O. E. RYTHER, PROP., NORWICH, CONN.

Mention the Florists' Exchange when writing.

LARGE TREES

PRODUCE IMMEDIATE RESULTS

Norway Maple, 2 to 4 in. in diam.	Maple, Silver, 3 to 4 in. in diam
Negundo " 2 to 2 1/2 " " "	Poplar, Carolina, 1 1/2 to 3 " " "
Linden, American 2 1/2 to 4 " " "	" Bolleana, 1 1/2 to 2 1/2 " " "
" Argentea, 1 1/2 to 3 " " "	" Lombardy, 1 1/2 to 2 1/2 " " "
" European, 1 1/2 to 2 1/2 " " "	

Picea Concolor, 3 to 4 feet, 3 times transplanted. Flowering Shrubs in large variety. California Privet, 2 years, 2 to 3 feet. Bushy; low price. Address,

OAK PARK NURSERIES, M. F. TIGER, Proprietor, Patchogue L. I., N. Y.

Mention the Florists' Exchange when writing.

PEONIES

I want to exchange cash for Peony Roots, from now to December 1. Send statement of your surplus, names, quantity and lowest price. Address Peonies, 329 N. Gay St., Baltimore, Md.

Mention the Florists' Exchange when writing

FOR SPRING

We offer a general assortment of **NURSERY STOCK**, including a fine assortment of

Apple, Pear, Cherry, Plum and Peach in all grades. **Shade and Ornamental Trees, Shrubs and Roses.**

CALIFORNIA PRIVET, 1 & 2 yr. Smock Peach Pits

Send List for Prices.

Franklin Davis Nursery Co.

Baltimore & Paca Sts., BALTIMORE, MD.

Mention the Florists' Exchange when writing.

Iris Germanica

A fine assortment in a variety of colors from light yellow to rich dark purple. Strong divisions from the field, \$3.00 per 100.

MORTON'S EVERGREEN LODGE, Clarksville, Tennessee.

Mention the Florists' Exchange when writing.

HARDY ROSES

We have an extra fine large stock of all kinds

Rosa lucida
Rosa lucida alba (very fine)
Rosa Setigera
Rosa Dawson

SEND FOR CATALOGUE AND PRICES.

EASTERN NURSERIES

M. M. DAWSON, Manager
JAMAICA PLAIN, MASS.

Mention the Florists' Exchange when writing.



D. H. GILBERT
Grower of

WATERMELON SEED
MONTICELLO, FLA.

I am ready for varieties and quantities to be grown under contract for Fall, 1905, delivery. Quality my first consideration. Get my prices; also get my surplus list.

Mention the Florists' Exchange when writing

HELP! HELP! HELP!

I have a surplus of 200,000 CALIFORNIA PRIVET, 2 and 3 years, in all sizes, and I want you to help me dispose of it. This Privet is well grown, well graded, strong and stocky, and I am sure it will please you. It will pay you to let me quote you before you buy.

C. A. BENNETT, ROBBINSVILLE, N. J.

Mention the Florists' Exchange when writing.

PIPE TOMATOES IN JUNE or early in July can be had from Fedder's Earliest Improved Large Tomatoes. They will average ½ lb. each. (I had one weigh 1 ¼ lbs.) They are bright scarlet, smooth as an apple, will not crack open, and will not rot from frost. 20 seeds from selected lot, 16c., 2 packets, for 25c.

HENRY FEDDER, 17 Exchange St., Dansville, N. Y. You have seen Mr. Fedder's tomatoes. They are the claims.—Ed. Vick's Magazine. Mention the Florists' Exchange when writing.

Men in Europe come and see and inspect our extensive Nurseries. Gonda is our railroad depot. Hardy, Fancy Ornamental Nursery Stock

J. BLAAUW & CO.

BOSKOOP, HOLLAND
Catalogue free on demand. Headquarters for the famous Colorado Blue Spruces—purest, bluest strain. Mention the Florists' Exchange when writing.

KOSTER & CO.

Hollandia **BOSKOOP, HOLLAND**
Nurseries
Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.
Pot-Grown Plants for Forcing.

RHODODENDRONS, H. P. ROSES, Etc.
Catalogue free on demand.
Mention the Florists' Exchange when writing.

TREES

Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country.

Gold Medal—Paris—Pan-American—St. Louis. 102 prizes New York State Fair, 1904.

Illustrated Descriptive Catalogue FREE on Request.

ELLWANGER & BARRY

Mt. Hope Nurseries, Rochester, N. Y.
Drawer 1044 U Established 65 Years.

Mention the Florists' Exchange when writing.

F. & F. NURSERIES

Wholesale Growers **TREES AND PLANTS** in full assortment Trade Catalogue Free
Mention the Florists' Exchange when writing.

August Rölker & Sons, 31 BARCLAY STREET, New York

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Deliveries.

Mention the Florists' Exchange when writing.

FRANK ELMER CONINE, The Reliable Nurseryman and Landscape Gardener, STRATFORD, CONN. ESTABLISHED 10 YEARS.

All varieties and sizes of Shade and Deciduous and Evergreen Ornamental Trees, Shrubs, Roses, Climbing Roses, Vines, Japanese Maples, Herbaceous Plants, etc. Everything in the Horticultural line. Plants large enough to produce immediate effect. Personal attention given to every business. Packing grounds open April 1 to June 1. You have tried other Nurserymen and often been disappointed in the stock. Will you continue? Give us a trial if you are particular. No disappointed customers on our books. No apologies necessary.

Mention the Florists' Exchange when writing.

Ornamental Trees and Shrubs

The Ornamental Department of our business has been a specialty with us since the foundation of these Nurseries, fifty-two years ago. We have large blocks of Oriental Planes, Sugar and Weir's Maple, Pin and Red Oaks, Lombardy Poplars and Weeping Willows, also fine specimen Hemlock Spruce from 2 to 5 feet. Fifty Acres of Shrubs of the best kinds for ornamental effect. Fifty varieties of Lilacs, eighteen of Athens, seventeen of Spiraeas, nine of Deutzias and a large stock Viburnum tomentosum. Trade Lists for Spring, 1905, mailed to applicants.

HOOPES BRO. & THOMAS, Maple Ave. Nurseries, West Chester, Penna.

Mention the Florists' Exchange when writing.

Bloodgood Nurseries, Inc.

Established 1790
Successors to KEENE & FOULK, Flushing, N. Y.

Norway Maple, 1 ½ to 3 in. diameter. Silver Maple, 1 to 2 ¼ in. diameter.
Sugar Maple, 1 to 2 ¼ in. diameter. American Elms, 1 ½ to 3 ¼ in. diameter.
Salisbury Adiantifolia, 6-12 in., and a large stock of assorted shrubs. Rhododendron Hybrids.
Rhododendron Maximum, Kalmia Latifolia, fine collected plants in carload lots.
Hybrid Perpetual Roses. Deciduous Shrubs. California Privet, 1 to 4 ½ ft.

REASONABLE PRICES
Mention the Florists' Exchange when writing.

Mazzard Cherry Seed, stratified, per peck, \$2.00
Rusian Apricot, stratified, per peck, 3.00
Peach Seed, stratified, per bushel, 1.25
Russian Mulberry, per lb., 1.75
Wild Black Cherry and Tupelo Gum, lb., .20
Mt'n Ash, White Ash, Tulip Tree, per lb., .30
Send for Trade List.

Jenkins' Evergreen & Seeding Nurseries, Wlnona, O.
Mention the Florists' Exchange when writing.

100,000 STRONG

One and two-year Palmetto Asparagus; 30 varieties of Strawberries; Ward Blackberry (send for descriptive circular) one of the most reliable for family or market; other small fruits. Peach and other fruit trees. Low Prices for First-Class Stock.

CHAS. BLACK, Hightstown, N. J.

Mention the Florists' Exchange when writing.

BURBANK'S PHENOMENAL BERRY TIPS \$2.00 Per Dozen \$10.00 Per 100

Send for Price List, Illustration and Description to

A. MITTING
Kennon Street SANTA CRUZ, CALIF.

Mention the Florists' Exchange when writing.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS

ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

Are You Taking Advantage of Your Opportunity?

THIS present issue of THE FLORISTS' EXCHANGE presents a typical illustration of the trade advertising spirit of the day. No attempt has been made by the publishers to cajole any person or firm into representation in these columns whose advertising line was not seasonable, and therefore thought likely to prove unprofitable. There is not a "deadhead" advertisement, not a "faked" advertisement, nor a "special price" advertisement, nor an advertisement inserted on speculation, nor any advertisement that we do not expect to be paid for, from the first one on our first page right through the paper to the last one on our last page.

From past experience we would say that of the thousands in the business—put it at 15,000—but a small percentage is in a position to advertise largely, steadily and profitably every week in the year—scarcely more than 1 ½ per cent. (and the large majority of these do recognize their advantage and use the trade mediums), although there are fully 3 per cent. who would find it advantageous to maintain at least a card announcement weekly. Of those with "seasons" varying from one week to six months, from 6 per cent. to 7 per cent. recognize their opportunity and take advantage of it.

When it is considered that until twenty years ago (1885), there was no trade paper existing for Florists, the present conditions make very encouraging showing. If the advertising did not pay, the advertiser would not be represented; therefore, those who do make a practice of advertising evidently receive sufficient encouragement to induce them to continue the practice.

That the percentage of "transient" advertisers could be largely increased, to the benefit of themselves as well as of the trade generally, is clearly evident to the publishers. THE FLORISTS' EXCHANGE represents an industry turning out what may, in all fairness, be classed as staples, yet staples that vary widely from nearly all other recognized staples in the fact that they are more perishable—"They live, move and have their being," then quickly pass away—and, when they start to move, as a rule they have to be moved quickly or they perish.

Right here in this one fact may be grasped the keynote showing the uses of and necessity for acquiring the "advertising habit" by those progressive spirits whose desire it is to better their financial condition and increase their standing among their fellow-men.

If it is unwise to advertise when you have nothing to offer, it is equally unwise to refrain from advertising when you do have something to offer, be it only \$50 worth; if it's good, some one needs it, and would be glad to buy it, too. Again, it often pays to advertise for something you want but don't know who can supply it. If you advertise for it, and it's in the country, you will surely get it.

Just now, and for the next six to eight weeks, is the season to advertise surpluses of all Spring stocks. THE FLORISTS' EXCHANGE has room for all such announcements, and you couldn't find a better medium in which to place this business. Make your prices right, see that your goods are right, pack well, ship promptly, answer all communications without delay, and you will then find yourself fairly launched on the advertising sea.

SUPPOSE YOU GIVE IT A TRIAL

The Mixed Herbaceous Border.

A Few Notes on Its Planting and Management.

By W. H. WARE.

Now that the planting of hardy herbaceous plants is becoming more popular, a few notes on the subject may not be out of place. It is a pleasing sign to lovers of hardy plants to see the increasing popularity that these old, and some of them new-fashioned, flowers are attaining. We are told by some that it is history but repeating itself; that may be so, but I am of the opinion that history in this case will do more than repeat itself. In a few years from now there will be more hardy herbaceous plants grown than ever were grown before, even when they were in the height of popularity. We have now specialists in these plants who are at work hybridizing, selecting and searching for new varieties of merit and introducing them in numbers every year. The adoption of the mixed border in gardens is a thing to be commended, as with a judicious selection something of interest can be had throughout the greater part of the year.

It is not my aim to give advice as to how to plant on any definite plan, as that is a difficult thing to put on paper. One of the fundamental principles, and one that should never be overlooked, is that the plants should be so arranged that the border may be of interest from all the main points of view and at all times as far as possible, if not by bloom, at least by foliage.

In order to best bring about this result it will readily be seen that an intimate knowledge of the plants and of their habits of growth is an asset of utmost importance to the planter. Taste and skill in arrangement must also be employed, discarding any attempt at formality, freedom and grace being two important points to be considered. There must also be some order and harmony. Too often we see borders planted in a haphazard sort of manner without the slightest regard for harmony. The plants ought to be graded from back to front in an easy and graceful manner, and the colors of the contiguous plants should blend as far as possible.

What to Plant.

It is not to be supposed for one moment that we recommend for the mixed border only those plants that are perennial. It would be almost impossible to make the border showy at all seasons were we confined to perennials alone. There are many beautiful annual and biennial plants which will even find a home there; but in forming the border, the perennial plants should be looked upon as the primary, while the annuals and biennials might be called the secondary plants. All plants that bloom in Spring, belonging to the class of which we write, are more or less of a dwarf habit, and thus by reason of this habit are usually relegated, with great care, to the front margin of the border; and for the first few months of the year the border presents a fringed appearance and there is nothing of interest except at the edge of the border. Now this is not at all necessary. These Spring-flowering plants which include nearly all the hardy hulse, myosotis, bellis, pansies, arabis, aubretias, saxifragas, etc., can be planted judiciously throughout the border in between plants that are much taller in habit, but are also much later in starting into growth and not thus even interfering with the ripening of the foliage of the earliest Spring bulbous plants.

Soil.

The soil for the border should be what might be called a good general garden soil; a soil that will grow



GENERAL VIEW OF HERBACEOUS BORDER IN PROSPECT PARK, BROOKLYN, N. Y.

a good crop of vegetables will give good results with these plants. Before planting it is to be remembered that these perennials are to have a permanent home, and possibly stay for many years; hence the ground should be well trenched and a liberal application made of rotted manure.

Very often we see a border flanked on the back with a hedge of privet or some other hedge plant, and the plants closest to the hedge show; by their poor condition, that they do not have the same amount of nourishment that the other plants obtain, caused, no doubt, by the roots of the hedge robbing them of it. On visiting a place of some note not long ago the careful and skillful gardener in charge pointed out to me what he had done in this respect. About three feet from the base of the privet hedge he had a concrete wall six inches broad and two feet deep entirely underground, thus preventing the roots of the privet from robbing the border.

Time to Plant.

The proper time to plant a herbaceous border depends on various circumstances, such as the varieties of plants, soil, situation, etc. I have planted them in Spring and in Fall with good results in both cases. But of the two seasons, I think for our climate that the Spring is the best time, just when the plants are beginning to start. The bulbous and tuberous plants may be planted any time after they are thoroughly

ripened, but should be planted before they commence to grow. The after-management of borders does involve much hard work, but if the best results desired a certain amount of care should be given the Such plants as delphiniums, phloxes and all stronger growers, are much improved if a moderate thinning of their stems be done early in the season.

Tall growing plants, if found too high for any space may be cut down after they have made a growth three or four feet; the shoots that will result will sprout, but the plants will be dwarfer. Phloxes, pinched before they show their flower buds, will develop other flower heads, and, of course, be later, thus prolonging the period of flowering of any individual variety.

Staking and Tying.

Timely attention must be given to staking and tying. In this connection the old adage, "A stitch in time saves nine" is very applicable. Not only will nine stitches be saved, but a much neater appearance can be had if time be taken by the forelock. Too much stress cannot be laid on the question of staking. People who have not yet become interested in plants as individuals, but only interested in the finished effect, and there are many such, nothing is more sure to sound the death knell of the employment of these plants than the careless and slipshod method of tying and staking so commonly seen. The reason usually given is: "Oh, we haven't time to give them attention." Far better then would it be to curtail the quantity, not necessarily the quantity of species, a large collection of plants is very often a mere repetition of a few varieties. The plants that are easiest grown are usually given the most attention, when the reverse ought to be the case. For instance, in the average herbaceous border to-day about 80 per cent. of the plants are Rudbeckia, Golden Glow. Now what is that is a very desirable plant if used with discretion it is also one of the most objectionable if allowed to run riot.

But to return to the staking; too often we see nothing but one stake to the plant, no matter be it hollyhock, delphinium, phlox or golden glow, the finished result being a facsimile of a heather broom swaying to and fro in every breeze. If stakes are to be used on the bushy class of plants, three stakes at the least should be employed, and the plant not bunched, but allowed to grow as naturally as possible. Hollyhocks and delphiniums should have one stake to each flowering shoot; nothing is more ugly than to see five or more large hollyhock stems all bunched together. In a large collection of herbaceous plants of which I had one charge, and where neatness was a necessity, I used with great satisfaction a system of iron support made after the style of the Igoe carnation support. These were made in different sizes and of a height to suit the different plants. Put on before the plant had attained their full growth, nothing of the support was noticed when growth was finished.

The timely removal of all weeds and decaying foliage will improve the looks of the border. On the more choice subjects, and these are often the weakest growers, a watchful eye should be kept, as they may soon be obliterated by some stronger growing species. A neat label ought to be affixed to each plant, especially if the collection is in anyway extensive, as the memory is apt to fail, very often at a critical moment; the labels will also be a guide to the plants in Winter and early Spring when the plants are less conspicuous and only known to those who are intimate with them.



HERBACEOUS GARDEN AT THE BRONX PARK, NEW YORK

Photo by Frank Hamilton

DON'T WASTE TIME AND MONEY ATTENDING AUCTIONS

When You Can Buy Reliable Goods for Less Money and Get What You Want

A FEW OF OUR SPECIALTIES ARE WORTH NOTICING. SO READ AND LEARN

CANNAS

Dwarf French or Crozy and Italian Sorts

The dormant roots we offer are large, clean, healthy pieces, containing many eyes, and will stand sub-division, and must not be classed with some small pieces of roots so often sent out by others.

- Dhas. Henderson, Paul Marquant, Burbank, F. Vaughan, Flamingo, Beaute Pottevlue, A. Bouvier, Fair Persian, Virginia, Mme. Crozy, Morning Star, Pearson's Primer, Italia, M. Washington, Peachblow, Austria, Italia Allemannia

FOLIAGE VARIETIES

Prices of Dormant Roots of any of the above standard varieties: 30c. per dozen; \$2.00 per 100; \$15.00 per 1000. Not less than six of one variety furnished at dozen rates; 25 at 100 rates; 250 at 1000 rates. For other varieties see our Wholesale Catalogue. We are headquarters for Cannas and grow upward of 25 acres, representing at least half a million roots. Besides the above, we offer other choice varieties. See catalogue.



STANDARD OR TREE ROSES

DORMANT ROSES

Low-Budded and Own Root for Early Forcing, Etc.

Two-year-old, field-grown, guaranteed in first-class shape. Those marked with a * we can furnish on own roots.

HYBRID PERPETUAL

- Abel Carriere, Alfred Colomb, Anna de Diesbach, Anna Alexieff, Ball of Snow, Baroness Rothschild, Capt Christy, Chesbunt Hybrid, *Clio, Duke of Connaught, Duke of Edinburgh, Duke of Teck, *Earl of Dufferin, Eugene Verdier, Fisher Holmes, *Gloire de Margottin, *Gen. Jacqueminot, *Gen. Washington, Geant des Batailles, *John Hopper, *La France, *Mabel Morrison, Mme. Charles Wood, Margaret Dickson, *Marshall P. Wilder, *Magna Charta, Mme. Gabriel Luizet, *Mrs. John Laing, Paonia, *Paul Neyron, Persian Yellow, *Prince Camilla de Rohan, *Ulrich Brunner

Prices of above sorts: Dormant plants, purchaser's selection, \$100.00 per 1000; \$11.00 per 100; 65c. for bundle of 6. Not less than 6 of any one variety sold.

*CRIMSON RAMBLERS

LARGE DORMANT PLANTS, 2-year-old, 4 to 6 feet long, with many branches, \$1.00 per 5; \$15.00 per 100. Second size, 2 1/2 to 4 feet long, 75c. per 5; \$12.00 per 100. Third size, 2 feet, strong, 40c. per 5; \$6.50 per 100. *DOROTHY PERKINS, the New Rambler, 90c. per 5; \$15.00 per 100.

TEA and HYBRID TEAS

Low-Budded, 2-Year-Old

- *Kaiserin Augusta Victoria, *Caroline Testout, *President Carnot, *White La France, Gloire de Dijon, *Bermosa, *Malmaison, Gloire Lyonnaise

90c. for 5; \$15.00 per 100.

*MAMAN COCHET, pink and white, 2-year-old, own root, American grown. The finest of all roses for florists, either for indoors or outside. Price, per bundle of 10, \$1.25; \$11.00 per 100, and \$100.00 per 1000.

STANDARD or TREE ROSES

Grafted on Rugosa Stock

Large, well-grown, selected plants in the following varieties, all true to name:

- Paonia, Mrs. John Laing, Gen. Jacqueminot, Duke of Teck, Ulrich Brunner, Mme. Isaac, Caroline Testout, Ferris, Belle Siebrecht, Mme. Beraud, Prince Camilla de Rohan, Crimson Rambler, Gloire Margottin

75c. each; \$3.00 per 5; \$5.00 per 10; \$40.00 per 100.

ENGLISH MOSS ROSES

Assorted White, Pink, Red. Large dormant plants, from open ground, \$1.00 per 5; \$15.00 per 100.

OTHER ROSES OF MERIT

All Strong, 2-Year-Old, Field-Grown Stock.

- *ROSA RUGOSA, Red or White, 65c. per 5; \$10.00 per 100. *WICHURAIANA, Memorial Rose, 65c. per 6; \$10.00 per 100. *AGRIPPINA, 80c. per 5; \$13.00 per 100. *MULTIFLORA JAPONICA, 60c. per 5; \$9.00 per 100.

GLOXINIA GRANDIFLORA ERECTA

The Gloxinia is coming more into favor each year, it being one of the most attractive of pot plants and simple to grow. In late years they have been much improved by selection. Large bulbs measuring 1 1/2 to 3 in. in diameter.

Table with columns for Separate Varieties, Doz., 100, 1000 and rows for Defiance, King of Reds, Mont Blanc, Prince Albert, Emperor Frederick, Emperor William, Spotted and Tigered, All Colors Mixed.

BULBS For SPRING PLANTING and SUMMER FLOWERING

We certainly are headquarters.

GLADIOLUS—Selected Bulbs

Table with columns for American Hybrids, Very fine mixed, Second size mixed, White and Light, best to be had.

GLADIOLUS—Florists' Forcing Sorts

Table with columns for Augusta, 1st size, pure white, selected, May, Daybreak color, Shakespeare, white and rose.

BEGONIAS

Tuberous-rooted

Table with columns for Single, bulbs 1 1/4 in. and up, separate colors, white, red, pink, yellow and orange, Double, large bulbs, 1 1/4 in. and upward, separate colors, or mixed.

CALADIUMS

(Elephant's Ear)

Table with columns for Bulbs, 6 to 8 in. in circumference, Fancy Leaved, named sorts, large bulbs, Mixed sorts, large bulbs.

DAHLIAS

Large Field Clumps. Named kinds. Separate. Our selection. Ask for list of named sorts. Cactus, Show, Fancy and Pompon.

MIXED DAHLIA ROOTS

We can also furnish without names, in mixture, colors separate, or all colors mixed, as follows:

Table with columns for Mixed Pinks, Mixed Reds, Mixed Whites, Mixed Yellows, Mixed all colors, and rows for Ea., Doz., 100, 1000.

TUBEROSES

Table with columns for Excelsior Double Pearl, Mammoth bulbs, 4 to 8 in. around, 1st size, 3 to 4 in.

LILIUM

Table with columns for Auratum, 6 to 8 in., Speciosum Rubrum, 8 to 9 in., Speciosum Album, 8 to 9 in., Tritoma Pfizeri.

MADEIRA VINES

Large roots, \$1.50 \$10.00

IRIS, Japan or Kämpferli

Grown from originally imported stock, 1/4 single, 1/2 double, named sorts, \$1.00 per doz., Mixed sorts, \$1.00 per doz.

GERMAN IRIS

Named, \$3.00 \$26.00, Mixed, \$2.00 \$16.00

LILY OF THE VALLEY COLD STORAGE PIPS.

Good grade of pips, for Easter flowering, \$10.00 per 1000, whole box, 2500, for \$22.50.

HARDY PERENNIALS

Anemone Japonica, Digitalis, Delphinium, Aquilegias, Hollyhocks, Hemerocallis, Phlox, Pyrethrum, Poppies, Hardy Mums, Tritomas, Primulas, and thousands of others ready for delivery at all-right prices.



Asparagus Plumosus Nanus Seed

Asparagus Fern. We are headquarters Greenhouse Grown.

NEW CROP SEED. Guaranteed over 80 per cent germination.

Table with columns for 100 seeds for, 500 seeds for, 1,000 seeds for, 2,000 seeds for, 5,000 seeds for, 10,000 seeds for.

SPRENGERI SEED

Per 250 for 15c. Per 1000 for 50c.

DEUTZIAs—Pot-Grown.

In Time Yet for Easter Flowering. Now Ready for 6-inch Pots.

Table with columns for Gracilis, pot-grown plants, Lemoinel.

LILACS—For Forcing.

Pot-Grown, Now Ready for 8-inch Pots.

Table with columns for Marie Legraye, Chas. X., Mme. Cassinair Perier, Mme. Lemoine.

Every florist should have a copy

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PALISADE NURSERIES, SPARKILL, N. Y. Telephone, 1063 Chelsea. Importers, Exporters and Growers of SEEDS, BULBS and PLANTS.



FOR SPRING SALES OAKS

You will find some of the following for your retail trade. WE GUARANTEE QUALITY. Send us your order now; we ship when you say the word.

	Per doz.	100		Per doz.	100
HYDRANGEA PANICULATA			H. P. ROSES, named varieties	\$1.50	\$11.00
GRANDIFLORA, 3 to 4 ft., heavy-branching	\$1.25	\$10.00	AMPELOPSIS VEITCHII, extra heavy Holland-grown	1.65	12.00
CLEMATIS JACKMANII and Sorts, large 2-year-old stock	3.75	30.00	TREE ROSES, in assortment, strong 2-year-old	4.50	35.00
CRIMSON RAMBLER ROSES, extra strong stock	1.75	13.00	ARISTOLOCHIA, Dutchman's Pipe, extra strong	3.75	30.00

BULBS

	Per doz.	100		Per doz.	100
DAHLIA ROOTS, in colors	\$1.00	\$7.00	CALADIUM ESCULENTUM—12 in. and up in circumference	\$1.75	\$13.00
CALADIUM ESCULENTUM—5 to 7 in. in circumference	.40	2.50	CANNAS, good named varieties, assorted	.50	3.00
7 to 9 in. "	.60	4.00	GLADIOLUS, finest mixed	.15	1.00
9 to 12 in. "	.95	7.00			

And a complete assortment of all SHRUBS, VINES, BULBS, etc. Write for prices on any stock in this line you might want. We can, and will make it worth your while.

E. F. WINTERSON CO., 45-47-49 Wabash Ave., CHICAGO

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Norway Spruce, Scotch and Australian Pines

Transplanted, 1 to 1 1/2 ft., \$20.00 per 1000; 1 1/2 to 2 feet, \$35.00
 Russian Mulberry and Black Locust, 5 to 10 in., \$2.00 per 1000. Catalpa, 1 to 2 ft., \$2.00 per 1000. Send for Trade List of Shrubs.
 Jenkins' Evergreen & Seedling Nurseries, Winona, O.
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400,000 PRIVET

Part on leased land, that must come off by April 15. ORNAMENTAL PRIVET, all sizes, to 10 ft., from 50c. to \$5.00 each.
 Sweet William, Fox glove, Pansies, in bud; Mint, Candytuft, July sowing. Large plants, per 100, \$2.00.
 Large Trees and Shrubs. Write for prices.
F. A. BOLLES, East 10th St., Brooklyn, N. Y.
 Mention the Florists' Exchange when writing.

Now in City Limits

NURSERY STOCK

Will be Sold Cheap to Clear Ground
 2,000 Elms, good heads and straight, 8 to 10 ft.
 2,000 Norway Maples, 12 to 15 ft.
 500 Horse Chestnut, fine tops, 8 to 10 feet.
 4,000 Shrubbery, in variety, 3-4 yrs., bushy.
 300 Norway Spruce, bushy, fine trees, 8 to 10 feet.
 100,000 California Privet, 2 and 3 years, bushy, 2 1/2 to 3 1/2 feet.
 Price on application. Correspondence solicited.

CARLMAN RIBSAM, 31 Wall Street, Trenton, N. J.
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Surplus Tree Seeds

	1lb.	10lbs.
Amelanchier Canadensis	\$.60	\$ 5.00
Albica Koenia, Vivid Colors	.40	3.50
Catalpa Speciosa	.40	3.00
Catalpa, Tess, Japan & Kamperi	.40	3.00
Cercia Canadensis, red bud	.30	2.50
Cornus Florida, White flowered		
Dogwood, D. B.	.15	1.00
Cornus Stoloniifera, Osler, Dogwood	.30	2.00
Diospyros, American Persimmon	.30	2.50
Ash, White, Green and Black	1.15	1.25
Ecochordn Grandiflora	1.60	15.00
Halesia Tetraptera, Snowdrop	.40	5.00
Hamelia Virgiliana	.60	5.00
American Holly & Red Cedar	.20	1.50
Black Locust	.30	2.50
Russian Mulberry	1.15	14.00
Box Elder and Black Gum	.15	1.25
Wild Black Cherry, Black Gum, Black Haw, Dwarf and Smooth Smacch, each	.15	1.25

Large lot nursery grown and collected Forest Seedlings. Send at once for trade list.
FOREST NURSERY AND SEED CO., IRVING COLLEGE, TENN.

NEW CANNA FAIRHOPE

An Improved Henderson. 30 cents each; \$3.00 per doz.; \$20 per 100. Don't miss this grand novelty. It is one of the best. A DOLLAR'S WORTH FREE with Every \$10.00 Order for Other Stock.
WRITE TODAY.
SOUTHERN FLORAL NURSERY CO., Fruitdale, Ala.
 Mention the Florists' Exchange when writing.

200,000 CALIFORNIA PRIVET

2 to 2 1/2 feet..... \$18.00 per 1,000
 3 to 4 feet..... 24.00 per 1,000

WM. BRYAN, ELBERON, N. J.
 Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.
THE WM. H. MOON CO., Morrisville, Pa.
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THE BEST ADDRESS FOR DUTCH BULBS AND PLANTS

K. VAN BOURCONDIEN & SONS
 Wholesale Bulb Growers
HILLEGOM, HOLLAND
 Until May write to
K. H. VAN BOURCONDIEN
 Care Malms & Ware,
 136 Water St., - New York
 Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET CHEAP

100,000 well grown plants, 3 to 4 ft., selected \$4.00 per 100; \$25.00 per 1000. 2 1/2 to 3 1/2 ft., 7 or more branches, \$2.50 per 100; \$17.50 per 1000; 20 to 30 in., 5 or more branches, \$2.00 per 100; \$13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, \$1.50 per 100, \$7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.
CHAS. BLACK, - HIGHTSTOWN, N. J.
 Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.
ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.
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WHAT DO YOU WANT?

2000 Hydrangea Paniculata Grandiflora, 2 ft. 8c.; 1 ft. 5c. 2000 Hydrangea Otakea, for 4 in., 8c.; 3 in., 4c. 2000 Spruce Anthony Waterer, 2 years, strong, bushy, 6c.; medium, 4c. 1000 Clematis Panicleata, 3 years, heavy, 10c. Clematis Jackmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Veitchii, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyanea, field grown, \$3.00 per 100. 5000 best shrubs and vines, dahlias, etc. Send for list.
BENJ. CONNELL West Grove, Pa.
 Mention the Florists' Exchange when writing.

MACROCARPA, PIN, RED WILLOW OAKS. Fine trees, 8 to 12 feet.

Ask for Price List of Trees and Shrubs.
SAMUEL C. MOON, Morrisville, Pa.
 Mention the Florists' Exchange when writing.

Dracaena Indivisa

Strong, perfect plants in every respect, pot-grown, 31-42 in. high, and very heavy, from 6 in. pots. If taken at once, \$30.00 per 100.

F. W. RICHARDSON, East Hartford, Conn.
 Mention the Florists' Exchange when writing.

Hollyhocks

Finest double varieties in three distinct colors white, yellow, and pink. Strong field-grown plants, \$3.00 per 100.

MORTON'S EVERGREEN LODGE, Clarksville, Tennessee.
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New Privet Golden Yellow Euonymus Japonica

Euonymus Japonica Variegata
Euonymus Radicans Variegata
 Ready as soon as frost is out of ground

S. TAPLIN, Detroit, Mich.
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MANETTI STOCKS

In fine Condition. Can be Shipped Promptly
 No. 1, 5-10 mm., \$10.00 per 1000; \$95.00 per 10,000.

JACKSON & PERKINS CO. NEWARK, NEW YORK.
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PEONIES CHOICE WHITE

Strong divided plants, 3 to 5 eyes in quantity.
 Festiva Maxima..... \$0.35
 Queen Victoria..... .12
 Golden Harvest..... .20
 Order at once for Spring delivery.

PETERSON NURSERY, 505 W. Peterson Ave. Chicago, Ill.
 Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET

2 to 3 ft., 3 to 5 canes..... Per 1000 \$18.00
 18 to 24 in., 2 to 4 canes..... 12.00
 15 to 20 in., 1 to 2 canes..... 8.00

DEUTZIA, PRIDE OF ROCHESTER
 Strong clumps..... 80.00
 2 to 3 ft..... 30.00
 Transplanting size..... 10.00
W. B. COLE, - PAINESVILLE, OHIO
 Mention the Florists' Exchange when writing.

RHODODENDRONS

Maximum, per 100, 8 in., \$5.00; 12 in., \$10.00; 20 in., \$15.00; 30 in., \$20.00; 40 in., \$25.00; 60 in., \$40.00; one or more stalks, with grub, 50c. to \$1.00 each. Choice plants. Cash with first order.
 Send for price list of Trees, Plants, etc.

J. N. PRITCHARD, ELK PARK, N. C.
 Mention the Florists' Exchange when writing.

Vegetable Plants

Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.
 Write for price list.

J. E. HUTTON & SON CONYNGHAM, PA.
 Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Lilies for Easter.

Now, when the days, as well as the lilies, are growing longer, the green trouble will not be so great or the combat as ineffective as in the shorter day of the year; and the buds, now being above the foliage, can be reached by mill but frequent and regular fumigation. The buds of Liliun longiflorum, destined to be in perfection for the Easter trade, should by this time stand out plain in good form, but should not yet show the white color, or they will be a little ahead of time. But if this should be the case; that is, if all or most of the buds are fully developed and some of them are turning white, then the plants may be safely removed to a cooler place—even light shed where they can take more time for the final finish. Those lilies, however, not so far advanced, not yet showing their color, should stay in a temperature about 55 degrees at night and, if possible, not very much higher in the daytime until their buds appear white, which, with some of them, may not be any too soon for Easter, while others would probably gain for themselves a few days or week of hardening off in a cool and air place just before sales commence. Keeping lilies that are far advanced, as those less forward, in batches by themselves, and regulating the heat according to their respective needs, is a good plan and simplifies matters greatly.

The lily bulbs that have furnished flowers in a cut state, as well as all such plants that remain unsold and the flower of which go to ruin, may be planted or in the open in the latter end of April or in May. Some of them will bloom in the Fall, while others will be good for next Winter's forcing.

Azaleas.

Next to lilies as Easter plants come azaleas. This year it is not easy to thr azaleas aright and to a nicety. It is easy enough to tender the advice: Keep cool but on most places it will be found difficult to follow it. How can one keep plants cool when the longer days of April and the stronger rays of the Spring sun heat up the coolest house to a degree which makes it anything but cool? One cannot now deprive Easter azaleas of the full light, or stow them away in a shed cellar or basement. Then, too, there are so many varieties, all more or less differing in their behavior and consequent requirements, that to bring them all under one hat, or to subject them all to the same treatment, would hardly land them all in blemishless perfection at the Easter altar. It is to be regretted that our principal holidays are not spread over a period of several weeks, like those of the Jews or Chinese. However, a few azaleas can always be sold, and many originally intended only for Easter will be profitably disposed of before that date just as those having come too late for Christmas found willing buyers later on all through the Winter months.

There will hardly be any trouble with such varieties as Paul Weber, Bernhard Andreas alba, Professor Walters, Mme Van der Cruyssen, Empress of India, Dr Moore or Emmeror of Brazil, while some others, such as Niobe and many of those left over from last year and summere over in this country, will probably come several weeks too soon unless kept in a low temperature as 35 or 40 degrees, if that can be made possible without robbing them of the much-needed light, air and moisture. On the other hand, it should be remembered that azaleas will stand any amount of extreme frosts without being harmed, so that any apparently backward could be pushed

A FEW THOUSAND SEEDLING

BERBERIS THUNBERGII, ROSA RUGOSA and ROSA LUCIDA

Write for prices.

SIDNEY LITTLEFIELD, North Abington, Mass.

Mention the Florists' Exchange when writing.

DAHLIA LARGE, WHOLE, FIELD-GROWN CLUMPS FOR CUT FLOWERS

Grand Duke Alexis (large white, tinged delicate pink), finest Dahlia to date, \$5.75 per 100. C. W. Bruton (immense yellow), Harry Freeman (large white), Wm. Agnew (finest red), Queen Victoria (deep yellow), May Lomas, (soft lavender), Mme. Moreau (deep rosy pink), Snowball (pure white), Henry Patrick (large white). Price, \$3.75 per 100. (10 of a kind at 100 rate).

A. B. DAVIS & SON, Purcellville, Va.
 Mention the Florists' Exchange when writing.

B & A SPECIALTIES

ROSES

H. P.'s in all varieties, such as

- | | |
|--------------------|-------------------------|
| Abel Carriere | Baroness de Rothschild |
| Capt. Christy | Julie de Schulenberg |
| Duke of Edinburgh | Emperor |
| Frau Karl Druschki | Gloire de Margottin |
| Mme. Geo. Bruant | Gloire de Bour La Reine |
| Mme. Chas. Wood | Margaret Dickson |
| Magna Charta | Mrs. Jno. Laing |
| Peonia | Perle des Blanches |
| Princess de Beau | Jules Margottin |

\$10.00 per 100, \$90.00 per 1000

T. and H. T. Varieties, such as

- | | |
|------------------------|---------------------------|
| Gruss an Teplitz | Kaiserin Augusta Victoria |
| Helen Gould | Jubilee |
| Mme. Franciska Kruger | Mme. Abel Chatenay |
| Marechal Niel | Meteor |
| President Carnot | Queen's Scarlet |
| Viscountess Folkestone | Souv. de Wootton |

\$12.00 per 100

- | | |
|--|---------------|
| Standard Roses, H. P., H. T. and T. Varieties, | \$35.00 |
| Crimson Ramblers, 2 1/2-3 in. pots | 10.00 |
| " " 3-4 in. pots | 15.00 |
| " " 4-6 in. pots | 20.00 |
| Standard Crimson Ramblers | \$3.50 per 10 |

LILIUMS

Lilium Auratum, 8-9	Per 100	\$5.00
" " 9-11		7.50
" Speciosum Rubrum, 8-9		5.00
" " 9-11		7.50
" " Album, 8-9		7.50
" " 9-11		12.00
" Melpomene, 8-9		6.00
" " 9-11		8.00

ROSES

Maman Cochet

WHITE AND PINK

\$10.00 per 100; \$90.00 per 1000

PAEONIAS

Officialis rubra plena	Per 100	\$ 9.00
" alba		15.00
" rosea		12.00
Chinensis, 50 in 50 varieties, \$15.00 per collection. White, red, pink, good named varieties in equal quantity		8.00
Diclytra Spectabilis (Bleeding Heart), per 100		\$5.00
Caladium Esculentum, 6-8		3.00
" " 8-10		5.00
" " 10-12		7.00
" Fancy Leaved, best named kinds		10.00

GLADIOLUS

Isaac Buchanan, yellow	Per 100	\$3.50	1000	\$30.00
May, pink		2.00		15.00
Groff's Hybrids, all shades		2.00		30.00
Augusta, white		4.00		35.00
Brenchleyensis, red		1.25		10.00

DAHLIAS

Cactus Varieties, clumps, large variety.....\$7.00 per 100
Large Flowering Varieties..... 5.00 "

Hardy Pompon Chrysanthemums, 2 1/2 in. pots, 20 of the best varieties, 75c. per 12; \$4.00 per 100.
Hollyhocks, to color, double, strong field-grown plants, \$10.00 per 100.
Mixed, strong field-grown plants, \$9.00 per 100.
Blue Spruce, (True) 1 to 10 ft. Ask for prices.
English Delphiniums (Kelway's Vars.), clumps, \$15.00 per 100.
New Red-flowered Tobacco Plant, 2 1/4 in. pots, \$3.50 per 12; \$25.00 per 100.

In addition to the above, we have the following among our specialties:

Hardy Herbaceous Plants, Hardy Grasses, Deciduous Flowering Shrubs, Hardy Vines and Climbers, Standard Flowering Shrubs, Deciduous Trees, Weeping Trees, Fruit Trees, Evergreens and Conifers, Evergreen Shrubs, Hedge Plants, Small Fruits, Bay Trees, Boxwood, Decorative Plants, etc., on which we will be pleased to quote prices.

A visit to our Nurseries will be interesting and profitable. Ask for our New Spring Wholesale Catalogue

BOBBINK & ATKINS, NURSERYMEN and FLORISTS, Rutherford, N.J.

Mention the Florists' Exchange when writing.

PANSY PLANTS Of my largest flowering mixture of Show Varieties, unsurpassed quality, good size, stocky plants, out of frames, \$3.00 per 1000; 500 at 1000 rate.

BELLIS (DAISIES) Largest double red and white, fine plants, \$3 per 1000

GUSTAV PITZONKA, Bristol, Pa.
Mention the Florists' Exchange when writing.

1888 VIOLETS 1905

Schuneman's famous Marie Louise Violets are well known as the most fragrant violets that come to the New York market.

Well rooted plants ready to set in benches when time is here, \$2.00 per 100; \$15.00 per 1000.

All parties who had their money returned last year, are advised to order early this time. Only for cash.

GEO. T. SCHUNEMAN'S
Violet Range
BALDWIN, L. I., N. Y.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

COLEUS

15 Varieties	100	1000
O. Verschaffeltii and Golden Bedder	\$0.50	\$5.00
Giant Fancy Leaved	1.00	10.00
Ageratum, Pauline and Gurney	.50	5.00
Salvia, Bonnie, etc.	1.00	10.00
Heliotrope, Dark	1.00	10.00
Alyssum, Giant Double Sweet	1.00	10.00
Fuchsias, 10 best varieties	1.00	10.00
Fuchsias, 3 inch pots	3.00	
Fuchsias, 2 inch pots	2.00	
Feverfew, Little Gem, 2 in. pots	2.50	25.00
Vinca Variegata, 2 in. pots	2.00	20.00
Asparagus, Plumoseus Nanus, 3 in. pots	5.00	50.00
Geraniums, Nutt, Buchner and others, 2 in. pots	2.00	20.00
Marguerite Carnation Seedlings, 75c. per 100, by mail 12c. per 100 extra. Cash with order.		

ERNEST HARRIS, Delanson, N. Y.
Mention the Florists' Exchange when writing.

ENGLISH IVY

2 1/2 in., \$2.50; 2 in., \$2.00; 4 in., (2 plants in a pot) \$8.00. English Ivy Variegated, 2 in., \$2.00. Vinca Var. Major, 2 in., \$2.00; 3 in., \$4.00; 4 in., \$3.00; Rooted Cuttings, \$1.00. Mme. Salleron Geraniums, German Ivy, Glechoma, 2 in., \$2.00 per 100. Cash or C. O. D.

J. H. DANN & SON, Westfield, N. Y.
Mention the Florists' Exchange when writing.

GERANIUMS

S. A. Nutt, Glory De Paris, Mme. Thihaut, Beaute P. Itevine, La Favorite, E. G. Hill, Le Pilote, Baron Dorontean, Mme. Jaulin, John Doyle, La Fonder, etc., 2 1/2 in. pots, \$2.00 per 100. Heliotrope, Chiffetto and Queen of Violets, 2 1/2 in. pots, \$2.00 per 100; Double Petunias, Dreer's Strain, 2 1/2 in. pots, \$2.00 per 100; Vinca Variegata, 2 1/2 in. pots, \$2.00 per 100; Seedlings Cuphea, (cigar plant) 50 cts. per 100; Ageratum, dwarf blue, 50 cts. per 100; Henderson's mammoth Verbenas, 50 cts. per 100, \$4.00 per 1000; Rose Geranium, 2 1/2 in. pots, \$2.00 per 100.

WM J. CHINNICK, Trenton, N. J.
Mention the Florists' Exchange when writing.

HEADQUARTERS FOR COLEUS

Geraniums, all sold for the month of March, except Rose Geraniums at \$2.00 per 100. 2 1/2 in. pots. Fuchsias, in variety, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, \$1.50 per 100.
Coleus, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, 60c. per 100. Golden Bedder and Verschaffeltii in quantities. \$5.00 per 100.
Heliotrope, all dark, 2 1/2 in. pots, \$3.00 per 100; rooted cuttings, \$1.00 per 100.
English Ivy, 2 1/2 in. pots, \$2.50 per 100; rooted cuttings, \$1.25 per 100.
German Ivy, 2 1/2 in. pots, \$2.50 per 100.
Abutilon, Souvenir De Bonn, 2 1/2 in., \$3.00 per 100.
Feverfew, 2 1/2 in., \$2.50 per 100.
Dracena, 4 in., \$8.00 per 100.
Blue Lobelia, 2 in., \$3.00 per 100; R. C., \$1.00 per 100.
Hydrandra Otaksa, 4 in., \$8.00 per 100.
Salvia, 2 in., \$2.00 per 100; R. C., \$1.00 per 100.
Ageratum, Stalls Gurney, Princess Pauline and others, 2 in., \$1.50 per 100; R. C. 60c. per 100.
Double Petunias, 2 in., \$2.50 per 100; R. C., \$1.50 per 100. Cash must accompany the order.

J. E. FELTHOUSEN, Schenectady, N. Y.
Mention the Florists' Exchange when writing.

PANSY PLANTS

Large-flowering	Per 100	\$2.50 per 1000	\$0.60
Asparagus Plumosus Nanus, small plants		1.75	
Geraniums, 10 Vars, 2 and 2 1/2 in. pot.		3.00	
Alternanthera, red and yellow, March 1		2.00	
Coleus, 10 Vars, 2 in. pots, March 1		2.00	

Cash
JOS. H. CUNNINGHAM, Delaware, Ohio.

VEGETABLE PLANTS

CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per 100; \$1.25 per 1000.
PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.
LETTUCE Big Boston, Boston Market and Grand Rapids, 25 cts. per 100; \$1.00 per 1000.
TOMATOES Earliana, Chalk's Early Jewel, Dwarf Stone, Dwarf Champion, etc., 30 cts. per 100; \$2.00 per 1000. Acme, Beauty, Stone, Perfection, etc., 25 cts. per 100; \$1.00 per 1000. Ready for transplanting.
EGG PLANT New York Improved, 25c. per 100; \$2.00 per 1000.
PEPPERS Bull Nose, Sweet Mountain, 25c. per 100; \$2.00 per 1000.

Miscellaneous Plants

2 1/2-in. stock in A1 condition.

Ageratum, Dwarf White and Stella Gurney	Per 100	1000
Alyssum, Dwarf White and Giant Double	40c. per doz.; \$2.00	\$17.50
Alternanthera, red and yellow in var.	2.00	15.00
Angelica (Columbine), single mix'd	3.00	
Canna, 10 var. 3 in. pots	4.00	
Carnations, Dwarf hardy mixed	1.50	12.50
" Marguerite	1.50	12.50
Coleus, in good variety	2.00	15.00
Delphinium Formosum	1.50	12.50

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List

Our Collection of **HARDY POMPON CHRYSANTHEMUMS** is as complete as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

Geraniums

BIG LOT OF ROOTED CUTTINGS READY FOR SHIPMENT

S. A. Nutt, Brumt'l, General Grant, Buchner, Castellane, Doyle, Montmort, Perkins Gervais, Viaud, \$10.00 per 1000
Cash with order

PETER BROWN, Lancaster, Pa.

MISCELLANEOUS PLANTS

(Continued)

Digitals (Fox Glove), fine mixed	Per 100	1000
Geraniums, Rose, Lemon, Mrs. Taylor and Fernifolia odorata	\$1.50	\$12.50
Hardy Chrysanthemums, small-flowering varieties	2.00	17.50
Hardy Chrysanthemums, large-flowering varieties	3.00	20.00
Hardy Phlox, 10 named var.	3.00	
Hardy English Ivy	3.00	15.00
Heliotrope, good varieties	2.00	17.50
Hollyhock, double white and mixed, 3 in. pots	3.00	
Lemon Verbena	2.50	17.50
Lantana, 10 varieties	2.00	17.50
Maranta Massangana	4.00	
Moosvines, white and blue, 50c. per dozen	3.00	25.00
Petunias, Dreer's double mixed, 5 named varieties	2.50	
" Dreer's superb single mixed	2.00	15.00
" fine mixed	1.50	12.50
Sage, Holt's Mammoth	2.00	15.00
Salvia, in variety	2.00	17.50
Smilax, strong	2.00	15.00
Swainsona Alba and Rosea	2.00	17.50
Sweet William, double mixed, 3 in.	3.00	
Verbena, white, purple and scarlet separate	2.00	15.00
Verbenas, good mixed	1.50	

GERANIUMS

In good variety, \$2.00 per 100; \$17.50 per 1000. Write for descriptive price list.

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List

R. VINCENT, JR. & SON, White Marsh, Md.
Mention the Florists' Exchange when writing.

AT AUCTION TUESDAY, MARCH 28, 11.30 A. M.

at 54 & 56 DEY STREET

Grand Collection of CONIFERS

Suitable for Italian Gardens

Also RHODODENDRONS, HYDRANGEAS, AZALEA MOLLIS, LILACS, ROSES, Standard and Dwarf, leading varieties; BULBS and ROOTS. Sales every Tuesday and Friday

WM. ELLIOTT & SONS, Auctioneers, New York

FUNKIA

Variegated Day Lily, Strong plps, \$4.50 per 100, \$40.00 per 1000. Clumps, from 8 to 12 plus, \$25.00 per 100. Chrysanthemums, Dr. Eoguehard, Rooted Cuttings, \$3.00 per 100. Cash please.

Charles Hornecker, Box 31, Springfield, N. J. Mention the Florists' Exchange when writing.

CYCLAMEN

SPLENDENS GIGANTEUM HYBRIDS.

My well-known strain in five true colors (seedlings), twice transplanted from flats, including the fringed variety, well-grown plants, \$3.00 per 100, \$25.00 per 1000.

Satisfaction Guaranteed

PAUL MADER, East Stroudsburg, Pa.

Mention the Florists' Exchange when writing.

FEVERFEW

Little Gem, plants, \$2.50 per 100. Rooted Cuttings, \$1.00 per 100. Would exchange for S. A. Nutt Geraniums.

T. C. AUSTIN & SONS, Suffield, Conn. Mention the Florists' Exchange when writing.

CINERARIAS

4000, 3 in. pots, very strong, medium large flowering, \$3.50 per 100.

Asparagus Plumosus, 3 in., \$5.00 per 100.

CHRYSANTHEMUMS

Stock Plant.

Polly Rose, Willowbrook, Mootmort, Pacific, Morel, Appleton, Mand Dear, Ivory, white and yellow, Bonafon, Golden Wedding, Jerome Jones, \$5.00 per 100.

J. D. BRENNEMAN, HARRISBURG, PA.

Box 24. Mention the Florists' Exchange when writing.

ahead and brought into full bloom in the very last few weeks before Easter. There will be little trouble with the belated few.

All azaleas should now have plenty of room and light. Some will need a shading on very hot and bright days. An abundance of water at their roots is needful from now on. One thorough watering each day may seem sufficient, but may, after all, not be enough on some days. Azaleas must not be caught wilting, and it pays to watch them. A sprinkling several times a day until the color of the bloom is fully out is a means of keeping them healthy, clean and bright.

Some of the varieties of those imported last Fall persist in starting the next year's growth before the present season's work is fully finished. On such plants all the leaves, or better still, the leaf buds, before they unfold, should be carefully rubbed off or pulled away all around the expanding flowers, or they will gain the better of them, and the flowers will perish all too soon for the grower. Then again, one or the other plant may show no signs of bud formation, may come entirely blind, or partly so; may be one-sided as to the distribution of bloom, or bring a few, thinly scattered here and there. Such plants should at once be trimmed into form, if not well balanced, and started into growth. Given a sunny place out-of-doors through the Summer, they will prove fine plants for next season's early forcing.

Many people prefer an azalea which has been allowed to grow at will and to branch out naturally to one clipped short and worked into the usual stiff form and graceless rotundity, as practiced in the Belgian nurseries. Plants left on our hands might be made to grow out of this stiffness in shape and form. If however, most of a grower's cash customers go into ecstasy over this formal style of trimming, then, by all means, let most of his azaleas be trimmed to suit. No plant stands cutting back severely and close pruning better than Azalea indica; but it must be done, to secure a crop of bloom for the ensuing season, before the new growth starts.

Schizanthus.

A perfect beauty, most easily raised, equally good for the house, the garden, the conservatory or the greenhouse, and never failing to arouse admiration or to give entire satisfaction, is the schizanthus. It seems strange that a plant so attractive, marketable and useful is hardly ever seen at any of our retail plant growing concerns. Is it because the seeds of schizanthus are exceedingly cheap, and the grower, making up his list, fights shy of it on that account? Or does its popular name, "the poor man's orchid," deter the plant from recognition? Then why not make use of its other aliases, "fringe flower," or, better still, "floral butterfly"? Surely any one of these two should be catchy enough.

Those who have never raised any of these charming plants should try a package of seeds. A sowing may be made in the beginning of April. On a moderately warm place the plants will be up in three or four days, and will need pricking off a few weeks later. Or they could remain in the seed box a week or two longer and then be planted singly or in twos and threes into small pots and later on re-potted into larger sizes. Plants from April sowings will be of the right size for the bedding plant business. But if carried a little farther and given another shift in time, a lot of exceptionally fine pot plants will be the result.

Ordinary good soil of almost any kind a light and sunny bench, and the usual amount of air and moisture, as accorded other plants is all they ask in the way of cultural treatment. Schizanthus may also be had in fine order and full bloom at any time during the Winter. They are well worth raising especially for that purpose. To that end the seeds should be sown in August and again in October in the house. A pinching back of the young plants induces them to branch out. Strong heads may be utilized as cuttings; they will root readily with bottom heat.

Reminders.

GERANIUMS should now go into 4-inch pots, if belonging to the Fall propagated set and still in 3-inch pots. They want room now and an abundance of ventilation on bright days. Right after repotting water should be given sparingly. Firm planting into soil, not sifted or over-fertilized, makes good geraniums. Fast growing sorts should be kept in bounds by another stopping.

PANSIES in outdoor frames now need attention. The sashes must be opened on every bright day and watering and sprinkling should not be neglected. Should they bloom before the bedding plant trade opens, then the flowers should be cut off. Very cold spells of weather will, from now on, do more harm than at any time previous should the plants be caught suddenly after a few weeks of fine weather. The sashes and some additional protection should therefore be kept in readiness at all times up till May.

YOUNG PLANTS should not be deprived of a much needed warm place on the bench, even if room is ever so scarce. Let older plants and such that are of slow growth, or have done their duty, make room for the fast-growing young stock, which, unless kept growing, will, at this time of year, become stunted and hard to manage. Many a promising lot of plants is spoiled in this way.

SHADING is more necessary when, after a dreary Winter, a period of unexpected bright weather ushers in a much-welcomed Spring, than at any other time of the season. The young growth of the plants, being mostly made in a semi-dark season, full of sap and soft in texture, is easier harmed and burned by the sun's rays now than in Midsummer. Most of palms and other decorative plants that we see almost ruined by sunburn caught in early Spring after a prolonged spell of dark weather.

FRED. W. TIMME.

VIOLETS PRINCESS OF WALES

Unrooted cuttings, ready now, 50 cts per 100; \$4.00 per 1000.

Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000.

ALYSSUM LARGE DOUBLE SWEET, rooted cuttings.

75 cts. per 100; from 2-in. pots, \$1.50 per 100.

Please place your orders now.

FD. BOULON & SON

SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

Alternanthera

Aurea Nina, yellow.
Rosita Nina, red and
Tricolor, dark brown.

Coleus

Golden Bedder, Beet Yellow, Verschaft, feltit, Red and good mixture of best colored varieties for hanging-baskets, window boxes and vases. 80 cts. per 100, \$5.00 per 1000.

Cash with order or satisfactory references.

Baur Floral Co., Erie, Penn.

Mention the Florists' Exchange when writing.

BARGAINS

	Per 100
Double and Single Petunia, R. C.	\$1.25
Strobilanthes Dyerianus	1.25
Ageratum, Princess Pauline and Stella	1.00
Gurney	.75
Salvia	1.00
Vinca Variegata	1.00
Vinca Geranium, 5 VARS.	1.50
Monovine, seedling	2.50
Genista Fragrans, 4 in., in bed	4.00
Dracena Indivisa, 3 in., 12 to 15 in.	4.00
Asparagus Sprengeri, 2 in., 1 year	2.50
Hollyhocks, Chertier's Double, 5 colors, 3 1/2 inch pots	5.00
Vinca var., 4 in., 12 in. high, new wood	5.00

CASH with order, please.

GEORGE J. HUGHES, Berlin, N. J.

Mention the Florists' Exchange when writing.

Easter Plants

Now is the time to place your orders. I solicit your esteemed patronage, and am prepared to fill your orders to entire satisfaction. Below I have listed my principal offerings of Blooming and Foliage Plants, specially grown for the Easter Trade. You will find them all of equally high grade.

ERICAS—Always in the front rank of Easter favorites, \$1.50 to \$3.50 each. Small Ericas in 3 in. and 3 1/2 in. pots, in varieties, \$2.00 per doz.

RAMBLER ROSES—Bushes, \$1.50 to \$4.00 each. Baskets, \$2.00 to \$8.00 each. **Crowns**, \$10.00 to \$15.00 each. **Smaller Crowns and Globes**, \$4.00 to \$8.00 each. **Pyramids**, \$5.00 to \$10.00 each. **Standards**, 3-foot stem, \$2.50 to \$3.00 each; 8-foot stem, planted around with flowering Crimson Rambler, \$5.00 to \$6.00 each.

MOSS ROSES—\$1.00, \$2.00, \$3.00, \$3.00 each.

BABY RAMBLER—The new everblooming Rose, 5 in. and 5 1/2 in. pots, in bloom, \$15.00 to \$18.00 per dozen; 3 1/2 in. pots, young grafted stock, \$3.00 to \$4.00 per doz.

BOUGAINVILLEA SANDERIANA—Bushes, from \$1.00 up to \$20.00 each. **Baskets**, \$10.00 to \$15.00 each.

HYDRANGEAS—Plak, 75c. to \$5.00 each. Sky blue, new fine variety, 75c. to \$8.00 each.

AZALEAS—Red, pink, white, variegated, from 50c. to \$8.00 each.

LILAC—White and purple, \$1.00, \$1.50, \$2.00 each.

DAISIES—White, 50c. to 75c. each; Yellow, \$1.50 to \$2.50 each.

RHODODENDRONS—In variety; colors very fine, \$1.00, \$1.50, \$2.00 each.

GENISTAS—\$1.50, \$2.00, \$3.00, \$4.00 each.

WALLFLOWERS—New English, very fine; bright carmine colored, \$1.00, \$1.50, \$2.00 each.

BORONIA ELEANOR—Pink flowers, \$1.50, \$2.00, \$3.00 each.

BULBOUS STOCK

TULIPS—In pans, at 35c., 50c., 75c., \$1.00 each. In flats at \$2.00 and \$2.50 each. Fifty in a flat.

HYACINTHS—In pots, \$2.00 per doz. **DAFFODILS**—Single and double, 75c. to \$1.00 a pan.

HYACINTHS—In pans, from 50c. to \$2.00.

LILIES—Finest stock in market, \$12.00 per 100 flowers.

LILY OF THE VALLEY—In pans, 50c. to \$1.00 each.

PLANTS

COCOS WEDDELIANA—Small plants for Fern dishes, \$1.50 to \$2.00 per doz.

PANDANUS VEITCHII—75c. up to \$3.00 each.

DRACENA TERMINALIS—\$6.00 to \$9.00 per doz. Combination plants, \$1.00 to \$3.00 each.

FERN BALLS—50c. to 75c. each.

PYRAMIDS OF BOXWOOD

In painted wooden tubs, \$4.00 to \$5.00 a pair.

After Easter I will be able to offer a new imported lot of splendid Bay Trees, Phoenix, large specimen Kentias, Acacia, Rubber Plants, etc., from Europe's best growers.

ANTON SCHULTHEIS, College Point, N.Y.

Mention the Florists' Exchange when writing.

THE TARRYTOWN FERN

Nephrolepis Piersoni Elegantissima

THE BEST RECORD OF ANY NEW INTRODUCTION

The Much Coveted \$50 Prize from the Horticultural Society of New York For THE BEST New Plant of the Year



NEPHROLEPIS PIERSONI ELEGANTISSIMA

GOLD MEDAL WORLD'S FAIR

- SHAW GOLD MEDAL**
Louisiana Purchase Exposition
 - GOLD MEDAL**
Pennsylvania Horticultural Society
 - GOLD MEDAL**
Rhode Island Horticultural Society
 - GOLD MEDAL**
New Orleans Horticultural Society
 - SILVER MEDAL**
Society of American Florists—Highest Award
 - SILVER MEDAL**
Massachusetts Horticultural Society
 - SILVER MEDAL**
New York Florists' Club—Highest Award
 - SILVER MEDAL**
American Institute, New York—Highest Award
 - SILVER MEDAL**
Newport Horticultural Society—Highest Award
 - SILVER MEDAL**
Tarrytown Horticultural Society—Highest Award
- And Numerous Diplomas and Certificates of Merit

Introduction 1905

There is nothing in the fern line that is as handsome as this beautiful fern when well grown. It is a wonderful improvement over Nephrolepis Piersoni in every respect, both in regard to beauty and habit of growth. It is a sport from the Pierson Fern (Nephrolepis Piersoni), but it is very much more beautiful and of greater value. It is as different from the Pierson Fern as that is from the Boston. The small side pinnæ are again subdivided, producing an exquisite and beautiful effect, changing the entire character of the fronds, which measure less than half the length and about twice the breadth of the fronds of the Pierson Fern. The fronds also assume an entirely different form, the side pinnæ standing at right angles to the mid-rib of the frond, on edge rather than flat, as is usual, making both sides of the frond equally beautiful—entirely different from any other fern.

The plant is very dwarf, only about half the height of the Pierson Fern, and of very much more compact habit. Taking it altogether it makes one of the most exquisite plants and one of the most valuable for table and house decoration that has ever been introduced. The cut fronds, on account of their beauty, will be in great demand for table decoration. Well-grown plants make most magnificent specimens.

NOW READY FOR DELIVERY

PRICE—Small plants, 2 1/4-inch pots, \$9.00 per dozen. Fine large specimen plants, 5-inch pots, \$18.00 per dozen; 6-inch pots, \$24.00 per dozen; 8-inch pots, \$36.00 per dozen; 10-inch pots, \$60.00 per dozen. 50 plants at 60c. each; 100 plants at 50c. each; 500 plants at 45c. each; 1000 plants at 40c. each.

F. R. PIERSON CO. Tarrytown-on-Hudson
NEW YORK



Headquarters for Easter Plants

Blooming Easter Week, or before if desired. Now ready for immediate shipment. I am noted and have a reputation for the past fifteen years for raising and shipping Choice Easter Plants throughout the land. Nine houses and ever so many hot-beds crowded with them, in better condition than ever before.

Azalea Indian. My specialty; 3 benches full of my own importation, the cream of Ghent productions. We sell none in the Fall; therefore they are not picked out for the Fall trade. Mme. Van der Cruyssen, the people's choice the best of all pink varieties. Plants covered with buds, as round as an apple. 60c., 75c., \$1.00, \$1.25, \$1.50 to \$2.00 each. Other best varieties, all shades. Niche, double white; Bernhard Andreae Alba, white; Empress of India, Professor Walters, Ilustre, Paul Weber, Joseph Vermoer, and many others, 60c., 75c., \$1.00, \$1.25 to \$1.50 each.

Lilium Hurrial and Japnu Multicolorum. H. F. Michell's special bulbs: 6 in. pots, 5 to 8 buds to a plant, 10c. per bud. Under 5 buds, 12c. a bud.

Cineraria Hybrida. Best strain, all shades, 6 in. pots, \$2.00, \$3.00, \$4.00, \$5.00 per doz.

Hydrangea Otaka. pink (a fine white including), 5 in. to 7 in. pots, \$1.00, \$5.00, \$6.00, \$9.00 to \$12.00 per doz.

Spiraea. Two houses full. Floribunda, Japonica and Blondine, 6 in. pots, large bushes, \$3.00, \$4.00, \$5.00 per doz. Compacta, \$2.00 to \$3.00 per doz. Gladstone, unusually fine this year, full of buds, perfect jewels, \$6.00, \$7.00, \$9.00 per doz.

Roses. American Beauty, 6 in. pots, bushy, 25 to 30 in. high, 60c. to 75c. each; Hardy Roses, including Hermosa, 5 in. to 5 1/2 in. pots, \$3.00 \$4.00 to \$5.00 per doz.

Begonia. President Carnot, Flambeau, three varieties in all, 6 in. pots, \$3.00 to \$4.00 per doz.; 4 in. pots, \$1.80 per doz.

White Daisies. 6 in., \$3.00 per doz.

Hyacinths. Raised from first-size bulbs. Grand Maitre, blue; Gertrude, pink; King of the Blues and La Grandee, white; \$12.00 per 100.

Double Narcissus or Von Slon. Double Nozed Daffodils, 3 bulbs in a 5 1/2 to 6 in. pot, \$2.00 per doz. pots. Tournesol, best selling double Tulip, 3 in a 4 in. pot, \$1.50 per doz. pots.

Araucaria Excelsa. 25 to 34 in. high, 4, 5, to 6 tiers, 7 in. pots, \$1.50 each.

Ficus Elastica (Rubbers). 6 to 7 in. pots, 25 to 35 in. high, \$6.00, \$9.00 to \$12.00 per doz.

Moon Vine. A. W. Smith's Hybrid, \$5.00 per 100.

WHOLESALE GROWER AND IMPORTER OF POT PLANTS
We force them only for our customers' Christmas and Easter Trade.

GODFREY ASCHMANN, 1012 **ONTARIO STREET,** Philadelphia, Pa.

ROSES

CARNATIONS

Genevieve Lord, \$2.50 per 100; \$20.00 per 1000; Thomas Lawson, Lillian Pond, \$3.00 per 100.

ASPARAGUS

Piumosus, 2 1/2 in. pots	Per 100	Per 1000
" 4 in. pots	\$3.00	\$22.50
Sprenger, 2 1/2 in. pots	10.00	100.00
" 4 in. pots	2.50	20.00
" 4 in. pots	10.00	

Alternantheras \$2.00 per 100; \$10.00 per 1000.

Geraniums, Bronzed typed, \$3.00 per 100; White Swan, \$2.50 per 100, or \$18.00 per 1000.

Hardy Pinks and Hardy Phlox, 3 in., \$1.00 per 100; 2 in., \$2.50 per 100.

Cinerarias, 4 in., \$8.00 per 100.

Richmond Gem, 2 1/2 inch pots, \$10.00 per 100; Queen Louise, G. A. Crane, Flora Hill, The Marquis, Crocker, Norway, Mary Wood, Thomas Lawson, Lillian Pond, \$2.50 per 100

Heliotropes, Salvias, Periwinkle, English and German Ivy, Fuchsia, Chrysanthemums, Ageratum, Flowering Begonias, Hibiscus, Sweet Alyssum, Shasta Daisies,

\$2.50 per 100

SEND FOR LIST

NATIONAL PLANT CO., Dayton, O.

Mention the Florists' Exchange when writing.

VIOLET CUTTINGS

Marie Louise. Orders booked for future delivery. Also **ROOTED CARNATION CUTTINGS** Gov. Wolcott, White Cloud, Mrs. Jeest, Apply for prices.
C. G. VELIE & SON, Marlborough, N. Y. Valley View Greenhouses

ROSES

American Beauty, 2 1/2 in. pots, \$6.00 per 100; \$50.00 per 1000. **Liberty,** 2 1/2 in. pots, \$6.00 per 100; \$50.00 per 1000. Strong, healthy stock.

E. TOWILL, HILLSIDE PA. ROSLYN P. O.
Mention the Florists' Exchange when writing.

ROSES

Pot up now for Spring Sales.
White and Plok, Mme. Cochet, Clothilde Soupert and Crimson Rambler, Field Stock, \$10.00 per 100. Philadelphia Rambler, 15c. See Shrubs, Vines, etc., advertised in this issue. Cash.

BENJ. CONNELL, West Grove, Pa.
Mention the Florists' Exchange when writing.

ROSES

Crimson Rambler, immensely loaded with buds, clean and healthy, 50 cts., 75 cts. and \$1.00 each.

Caroline Soupert and Helen Gould, 4 in., \$1.75 per doz.
All the above in bud and bloom and right for Easter.

C. WHITTON, City St., Utica, N. Y.
Mention the Florists' Exchange when writing.

STUDER OFFERS

POT-GROWN ROSES. Over 50,000 of over a hundred of the best varieties of Hybrids, Monthlies, Moss, Polyanthas and climbing Roses, all on own roots, cool grown, ready for planting, from 4 in., 5 in. and 6 in. pots, 8c. to 25c. each, according to size and variety. Field-grown and still dormant: Agrippina, Bon Silene, Bride, Mermet, Bridesmaid, Ivory, Golden Gate, and some Moss and Climbers; or from 3 in. pots, 5c. each. Philadelphia Ramblers, strong, 3 in. and 4 in. pots, 8c. and 15c. each.

PALMS. 3 in. to 5 in. pot size Kentias, Latanas, Phoenix, Caryota Urens, and Chamerops Excelsa, 10c. to 25c. each.

FERNS. 2 in. pots, strong Pteris and Adiantum Cuneatum, 4c. Young plants of Ageratum, Chrysanthemums, Coleus, Petunia, Heliotrope Sweet Alyssum, Lobelia, Nasturtium, Sage, Thunbergia, Maurandya, Verbenas, 2c. Also of Hardy Plants, such as: Phlox, Coreopsis, Gaillardia, Rudbeckia, Helianthus, Sweet William, Wallflower, Campanula, Aquilegia, etc., 2c. each.

No Catalogue. Write what you need and I will make prices right, or send \$1.00 for samples.

N. STUDER, Anacostia, D. C.
Mention the Florists' Exchange when writing.



The plants in the benches should from now on, never be permitted to get too dry, especially on bright days it being often necessary to water the ends and front edges of the beds twice a day to keep the soil in good condition. Give the houses all the air possible and have them a little cooler both night and day. This will help keep the buds from getting smaller, for as the quantity increases only the best stock realizes fair prices; therefore, no effort should be spared to keep the stock in good condition.

Red spider is a pest that is very troublesome at this time of the year especially where the plants have been bunched up by being tied improperly. Nothing but thorough syringing will dislodge this mite. But do it in time it is too late when the plants have lost half of their foliage.

Keep the plants tied well, for if the young shoots are allowed to remain near the glass they will get scorched and become worthless. Feed liberally where the plants are healthy, and if a little off color, a liberal coating of wood ashes will greatly improve them.

If the sod heaps for next season have been neglected last Fall they should be put up as soon as the ground can be worked. Use nothing but fresh cow manure with the sod, as old manure, can be utilized for this purpose. Get good soil; even if it costs more it is a good investment, as upon it, to a large extent, depends next season's success.

Watch the young stock carefully and do not overwater. When shifting from 2 or 2 1/2 into 3 or 4-inch pots good drainage should be afforded, charcoal cinders or pieces of potsherd will answer, or, still better, screen the soil and the coarse matter, which will not readily pass through the sieve, consisting mostly of pieces of sod and manure can be utilized for this purpose. Syringe the young stock on every favorable occasion, and fumigate at least twice a week with tobacco stems, to keep off green fly. Should the surface of the pots become green, in other words, covered with scum or moss, the same should be removed. A handy tool for this purpose can easily be made from a piece of hoop iron; the edge can be made quite sharp, and will then cut off any weeds.

OXFORD, PA.—A recent local paper contains an appreciative account of the greenhouses of J. H. A. Hutchison, the florist. He has twenty varieties of carnations, his leaders being Enchantress, Lady Bountiful, Mrs. M. A. Patten, Dorothy Whitney, Boston Market and Flamingo. Some of these blooms measure over three inches in diameter.

ROSES

2 1/2 in. pots, strong plants, **Iridesmaid, Bride, White Cochet,** \$2.50 per 100; \$20.00 per 1000. **Golden Gate and Ivory,** 3 in. pots, \$5.00 per 100; \$40.00 per 1000. **American Beauty,** 2 1/2 in. pots, \$5.00 per 100; \$40.00 per 1000; 3 in. pot plants, \$6.00 per 100; \$50.00 per 1000.

Strong two-year-old, 6 in. pot **American Beauty,** good for Easter, \$25.00 per 100. **Cochet,** pink and white, 4 in. pots, \$15.00 per 100. **Bridesmaid and Bride,** 4 1/2 in. pots, strong, bushy plants, \$17.00 per 100.

CHAS. W. REIMERS,
Crescent Hill
LOUISVILLE, KY.



Sample 2 1/2-inch American Beauty

Dreer's Select List of HARDY PERENNIALS

We offer here only the most Showy and Decorative Sorts, including varieties suited for CUT FLOWER purposes. These varieties are marked with an asterisk (*).

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List. This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

Table listing various Hardy Perennials with columns for plant name, size/pot, price per dozen, and price per 100. Includes entries like Acanthus Mollis, Achillea Millefolium, and many others.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

IN AND ABOUT THE PLANT HOUSES.

BY WILLIAM H. TAPLIN.

So severe a Winter as the one we have just passed through makes rather a trying period for both the plant grower and also the producer of cut flowers, for apart from the shrunken appearance of the coal pile and the correspondingly large cost of the same, there has been the continued difficulty of making shipments of stock to any distance. Of course, the cut-flower man is also likely to remark that the many cloudy and snowy days have greatly reduced his output for the season, but there is also the crumb of consolation for him in the fact that a shortage in stock means a prompt increase in price in most instances, whereas the broker in the plant trade may have the stock, but, owing to the severity of the weather, can neither sell nor deliver the goods.

But for all these various disadvantages the members of the trade are mostly optimistic, and we shall doubtless hear of more or less building and rebuilding this Summer just as though the season had been lovely in all its aspects, and all are looking forward with hope to such a successful Easter that past trials may be forgotten. The experience of the past Winter seems to have shown a rather smaller demand for large, decorative plants, such as large palms, though well grown plants of medium size have sold well in most of the larger markets of the country, the buyers being more critical and not so ready to pick up over-

made up plants of cocos, consisting of three or four nice stocky plants put together in a three-inch pot were more in favor than single plants. This method is not a highly profitable one to follow with cocos, however, unless one can get a sufficiently high price to cover the additional cost.

Phoenix are little called for, hardy as they are, and most of those having any quantity of them are quite ready to offer some inducements to prospective buyers, as are also the European growers. But some of the gardens of the South and Southwest have probably suffered from frost this Winter, and these localities use quite a large number of phoenix for outdoor decoration and may thus readily relieve the market of any surplus of these palms.

In the present state of public opinion a good advertiser might possibly stir up a greater demand for rhaps by calling them Japanese palms, the leaves of these plants being frequently drawn upon Japanese works of art; but, otherwise, there is not a strong demand for rhaps, even though they are such admirable decorative plants, and endure rough handling so well, one of the greatest objections being found in their slow growth.

Ferns.

The Boston fern seems to occupy the niche in the floral hall of fame that was once filled by *Ficus elastica*, though there is an occasional rebound in public opinion, and from time to time someone tires of everybody's fern and again yearns for the rubber plant of their earlier years, and it does seem as though

those who have had an opportunity to observe it say that this plant is a good keeper in a store, or room, its large, leathery leaves being apparently but little affected by the dry air of such an exposure. As a small plant this *ficus* may not be sufficiently symmetrical to attract the retail buyer, but in a large specimen it may easily find a place for porch decoration or in the conservatory, and may also prove valuable in outdoor beds of foliage plants.

Bougainvillea Sanderiana, at Christmas, does not seem an unalloyed success; not because it was not well grown, but more likely on account of there being too much purple in the pink of its bracts, this color being less attractive at that season than that of a poinsettia or a red azalea.

Other forced flowering plants are and have been in good supply and fair demand, and among them are rhododendrons, that seem to be rather better set with buds than usual.

Easter stock looks promising and plentiful at this writing, but the all-important question in regard to this stock is what kind of weather shall we have in April? If it should turn out as warm as some seasons we remember, there may be large losses from over-ripe flowers.

Horticulture in Jersey, Channel Islands.

Editor Florists' Exchange:

I was much interested in perusing your paper, and got thereby some good ideas as to how a florist business is conducted in the Northern States of the U. S.



NEW CACTUS DAHLIA KRIEMHILDE



NEW SEEDLING SINGLE DAHLIAS

grown and unshapely stock simply because of its size. There may have been a little unwise plunging in large imported stock of this character, too, for some of the apparent bargains that are offered by importing agents do sometimes fall short of the description, many of the plants in question being injured more or less in transit, or else were just a little below par when they started.

Palms.

No special change in the public taste in regard to palms has been shown this season, and kentias are still well to the front, the majority of these in the medium and large sizes being compound or bush plants, with several plants potted together, this being especially the case with *Kentia Forsteriana*. The shorter stems and more compact habit of *K. Belmoreana* provide a more effective single specimen than the former variety, though *K. Belmoreana* is also sold in large numbers in the bush form.

Small latanias seem to have been over plentiful, judging by the plants that have been retailed for ten cents each, or even less, by some of the department stores; but it must also be admitted that many of the plants thus disposed of were well sold, if one took into consideration the number of insects some of them supported, and the cost of the labor it would have taken to clean them.

Good plants of *Livistona rotundifolia* have not been seen in great quantity this season, and possibly the Winter may have had something to do with it, for cold drip and icy water with which to syringe form a combination somewhat detrimental to this plant, both the roots and foliage being somewhat tender.

Fashions in table ferneries do not change very frequently, the plants with which they are filled depending very much on the stock the filler has on hand; but if any special change may be noted, it is in a less use of *Cocos Weddeliana* for this purpose, though

the wide-awake grower should turn out some well-fished stock of both these excellent subjects for the window garden.

It is admitted that the Boston fern is an easy subject to grow, but there are many of these ferns that are sold at a very low price when the space they occupy is taken into consideration, for this plant requires a great deal of space if one purposes the production of first-class stock. And, apart from its beauty, the more compact habit of *Nephrolepis Scottii* is a card in its favor from the grower's standpoint, as it may enable him to grow a slightly larger number of plants in a given space than could be done with the old variety.

Small ferns for ferneries have been a rather scarce article during this Winter, at least, in several Eastern cities, and good stock would have readily found purchasers.

Very low prices have prevailed for some years past in this line, and possibly some of those who formerly grew ferns have dropped out of the race for this reason, thus making the shortage more marked; and, in addition to this, there is the natural increase in the demand as the trade extends from year to year.

Plants for Baskets and Ferneries.

There is also to be noted some inquiry for various compact-growing small plants of other species that may be used either for ferneries, or for small plant baskets; and it may be that in another year or so a much better opening may be found for nice little peperomias, rex begonias, the dwarf Japanese flag (*Acorus Jap. var.*), variegated phyllanthus, and others besides the small *Dracaenas*, *Sanderiana* and *Godseffiana* and young asparagus that are now so much used in work of this character.

The new *Ficus pandurata* has not yet been offered in sufficient quantity to test the market, but some of

A., which in practice is somewhat different to what is commonly done in England. The principles of action are similar if not the same.

There is not nearly so much culture under glass in Jersey as in Guernsey; Baskford's, at St. Luke's, is our largest. At this place there are about two miles of glass houses, averaging in width 35 feet, and some of the houses are two hundred yards in length by 43 feet in width. They are all heated with hot water pipes. Early and late grapes, for the English market, are extensively grown. Forcing begins in December, and the late vines are allowed to start without the aid of heat, but ripening is aided by heat in November and December. To see a house 200 yards long and 30 feet wide in full crop of Muscat of Alexandria grapes is a sight a horticulturist is not likely to forget. The crop of this house is from eight to ten tons of prime grapes per annum, ripe in July and August. Black Hamburg and Black Colman and Alicante grapes are all grown extensively. A good deal is also done in early melons and cucumbers, climbing beans, French beans, and sometimes peas. Early potatoes are largely grown in these big houses. The value of this crop in some seasons amounts to £1,700 to £2,000. The tubers are dug in March and April, and tomatoes are immediately planted in their place. As you know, the Jersey climate is so mild that, in some seasons, no heat is required in the houses to keep out frost. The outdoor crop is mostly of pears, and from 7,000 to 8,000 trees are grown, principally of Williams, Bon Chretien—your Baldwin—Doyenne de Comice, and some Chaumontel. They are all "bush trees" worked on quince stock. The crop I should think runs according to good and bad seasons, from 10 to 20 tons of Williams, from 15 to 30 tons of Doyennes and five or six tons of other sorts. Jersey pears are A1 in quality, and better than French ones.

St. Clement's.

JOHN HORNE.

AT HALF PRICE

READ THE REASONS GIVEN

Natural Business Laws justify higher Prices on Novelties than stock in normal demand and supply can command

An event unusual is that of a meritorious novelty—such as appeals sensibly to all growers of judgment—offered below half its normal price.

Nevertheless, as the full time and attention of the introducer are now fully demanded with other lines of his business, in planning to directly close out the limited balance of the originally grown stock of

Adiantum Croweanum

it is now on sale at less than half price.

As a standard novelty the sterling values of this fern develop more and more daily, hence this offering is no reflection on its true merits.

The following prices tell their own story

Strong plants from 3-inch pots, \$2.50 per dozen; \$15.00 per 100; \$125.00 per 1000.

25 plants at 100 rate; 250 at 1000 rate. \$100.00 per thousand in 5,000 lots.

In order to insure orders being filled, would-be buyers need to speak quickly.

LET NO ONE HESITATE NOW!

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Mention the Florists' Exchange when writing.

BARGAINS

Primula Obconica Grandiflora, 10 to 20 buds, strong, 5 in., \$1.50 per doz.; Double Geraniums, in bud, separate and mixed; Heliotrope, Mme. Salleron Geraniums, Hardy Chrysanthemums, all strong, 2 to 2 1/2 in., \$1.75 per 100; Begonia Veillon, separate and mixed; also Jerusalem Cherries, ready to pot, \$1.25 per 100; Ageratum, blue, 50c. per 100; Lobelia, Salvia Splendens and Bonfire, strong, 2 1/2 in., \$1.50 per 100; Dracena Indivisa, strong, 3, 4 and 5 in., \$3.00, \$5.00 and \$12.00 per 100. Cash. 200,000 Bedding Plants, all the leading stock, ready April to June. Finest plants in the country. Place your orders with me and save money and disappointment.

WM. S. HERZOG, Morris Plains, N. J. Mention the Florists' Exchange when writing.

70,000 ALTERNANTHERAS



Red and Yellow, September Struck. They are fine, strong cuttings, worth twice the price asked for them. 60c. per 100, \$5.00 per 1000. Express prepaid. Send for list of other Rooted Cuttings to

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KENTIA BELMOREANA

Fine, healthy stock, ready for a shift, \$40.00 per 100.

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THE AMERICAN CARNATION
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A Few Good Things You Want

Kentias. As fine a lot of single and made up plants as ever grown, in 4-in., 5-in., 6-in., 7-in. and 8-in. pots, at 20c, 35c, 75c, \$1.50 to \$3.00 each. Dracena Indivisa, 3, 4 and 5 in., \$5.00, \$10.00 and \$25.00 per 100. Asparagus Plumosus, 2 and 3 in., \$4.00 and \$8.00 per 100. Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100. Geraniums, Jean Claud, S. A. Nutt, Castellane, John Doyle, Perkins, Mme. Salleron. Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100. Vinca Var., 2 in., \$2.00 per 100. Gladiolus Bulbs, fine mixture, 75c. per 100, \$6.00 per 1000. German Ivy, 2 in., \$2.50 per 100. Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia. Cigar Plant, 2 in. pots, \$2.00 per 100. Cash with order

GEO. M. EMMANS, Newton, N. J. Mention the Florists' Exchange when writing.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI

The Most Magnificent Tree Fern in Cultivation.

Extra Large Specimens.

8 in. pots..... 2.75 each; 32.00 per doz.
7 in. pots..... 1.75 each; 20.00 per doz.
Adiantum Cuneatum, 4 in..... \$15.00 per 100

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ASPARAGUS

Plumous Nanus, strong and heavy, ready for a shift, 3 in. pots, \$5.00 per 100.

A full line of BEDDING and VEGETABLE PLANTS J. S. BLOOM, Riegelsville, Pa. Mention the Florists' Exchange when writing.

PALMS AND FERNS

Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; Pierson and Boston Ferns, 5 in., \$25.00 per 100; 6 in., \$50.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Latania Borbonica, 3 in. pots, \$6.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up.

Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Arca Lutescens, 4 in., \$20.00; 5 in., \$50.00 per 100; 8 in., \$1.00 each. Larger plants from \$1.50 up. Arancaria Excelsa, 4 in., 45c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Arancaria Compacta, from \$1.00 to \$5.00 each. Pandanus Utilis, 6 in. pots, 50c. Dracena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Reclinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$9.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Azaleas, 10 in.-12 in., \$50.00 per 100. Larger sizes at low rates. Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa. Mention the Florists' Exchange when writing.

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4 inch, suitable for large Jardinieres and basket work, in 10 good varieties, \$15.00 per 100. Asparagus Sprengeri, 4 in..... 12.00 per 100

ASSORTED FERNS FOR JARDINIERS In all the best varieties, fine bushy stock, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. 500 at 1000 rate.

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CARNATIONS and Novelties in DECORATIVE PLANTS Market and 49th Sts., PHILADELPHIA, PA. Mention the Florists' Exchange when writing.

CYRTOMIUM FALCATUM

The Holly Fern

15,000 fine, bushy plants, in 2 in. pots, ready April 15. These will be strong and ready to shift into 3 in. pots at once. Grow some of these in pans for your fall trade. It is a beautiful fern with glossy, dark green fronds, and gives satisfaction to your customer, for it is very hardy. \$3.00 per 100; \$25.00 per 1000.

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Aspidium Tenuesmense, extra good plants, in 3 in. pots. Have just finished a fine growth. Pteris Tremula, 3 1/2 in. pots, full, bushy plants, 8c. Our ferns are grown in as small sized pots as possible, thus giving good bushy plants with small balls of earth. Try them once and you will see the advantage. Careful packing, prompt shipment, liberal count. Cash, please.

R. G. HANFORD, Norwalk, Ct. Mention the Florists' Exchange when writing.

New Dahlias.

By L. K. PEACOCK, Atco, N. J.

In the general order of events changes occur; new things are brought forward and new developments made in all lines. The people want a change; they want something new. Nowhere, however, is the continuous and persistent effort to secure something new and distinct so clearly seen as in the production of flower novelties. We never get tired of a tool, implement or any object used for a material purpose; but, on the other hand become attached to it and the way of using it only changing when something markedly superior is forced upon us. But the florist must at all times produce something to appeal to the artistic taste of the observer. It is not necessary that this should be better or even that it should be an improvement but that it be a change; something to appeal to our fancy—a change, a novelty, anything that will appeal to the casual observer especially if it gives an artistic effect much more strongly than if it is simply an improvement on a given type in the way of color, size, or general contour. Failing this, the utmost efforts of the grower are in vain.

little Fairy is just the extreme opposite. While the Pink Century will grow 6 feet high, with flowers 8 inches across, and stems 3 feet long, the Fairy grows about 2½ to 3 feet high. Its flowers, being produced in almost myriad profusion, about 2½ to 3 inches in diameter, but of exquisite semi-cactus form, can be cut in sprays and, no matter how arranged, present a most beautiful and artistic appearance. Between these two types we have innumerable others in the same shades. Now, in getting the full range of colors, in the full range of sizes, and, again, in types, some idea of the immense possibilities of the single dahlias can be had.

Taking the matter up specifically, we would touch upon the Century dahlias. Harvard, a far more vivid crimson than Alphonse Bouvier canna, many times 8 inches in diameter; a plant growing 5 to 6 feet high, with long stems; a companion in every way to the noble Pink Century mentioned above. Then we have the white and scarlet Centuries, both with flowers running 6 to 7 inches in diameter, the same long, 3-foot stems. Gorgeous is a great improvement over Scarlet Century, with but a single drawback—an occasional single white petal. This is a drawback with some, but as it is only an occasional flower in which the variation occurs, the bloom can be removed and at the same time the objection. At other times, the occasional white petal is received with great favor. Then we have the Blush Century. Nothing could be more chase or lovely; the coloring is delicate in the extreme. The Lavender Century, large, delicate lavender

by itself. Mars occupies the same place among the new scarlets. Purity is another exquisite new white. Floradora is considered by many the best crimson scarlet; Brunhilde outclasses all other purples; as does Rosine among deep rose.

Among the French collarettes, Mme. Viger, a new American seedling, has all the good qualities of President Viger, but is lighter and brighter in color, making a magnificent pair.

Of the large double dahlias, Mrs. Roosevelt, delicate pink; Cuban Giant, crimson maroon; Gettysburg brightest scarlet, occupy a class by themselves.

Among the new fancy dahlias, Progress, soft rose lake, penciled and spotted crimson; Admiral Schley crimson tipped white, an improvement over American Flag; Eloise, crimson maroon, striped white; and Olympia, an immense flower 7 inches across, with full high center, color deep rose striped and penciled crimson, are the most striking.

Other new decorative dahlias are Sylvia, a larger and heavier form of Nymphaea; in fact, to give the best impression, it is about half-way between Nymphaea and a show dahlia, being larger and fuller with heavier stem, and it is a better keeper. In bright red, Catherine Duer has been attracting considerable attention, especially at Newport, R. I., where it is considered the only red. Eureka, tipped rose, is a cross between A. D. Livoni and Grand Duke Alexis and Mrs. Winters is pure white.

Of the new show dahlias, White Dandy—a pure white sport of Pink Dandy, stands head and shoulders above



NEW SINGLE DAHLIA GAILLARDIA



NEW BLUSH PINK DECORATIVE DAHLIA MRS. ROOSEVELT

Hundreds of visitors at our place have passed by single dahlias without a thought, yet the striking appearance of the New Century dahlias was such as to call forth the greatest enthusiasm and admiration. I recall particularly a block of the purple foliaged dahlia Ami Barrillet, with its deep rich garnet blooms. Really, I do not believe I ever saw a finer sight—a block of four rows making a band 600 feet long and 16 feet wide. The plants were bushy, the foliage meeting across the passageway. Many who said they could see no beauty in a single dahlia stopped before this block.

We are all creatures of moods, likes and dislikes. We may think we do not like a certain class of plants, yet if we see an unusually fine specimen, we cannot but admire it.

In the new departure with dahlias, all attention seems to be given to the cactus types; but to the true artistic temperament, the flower lover, there is a subtle charm about the single varieties, not only in dahlias, but in any flower, that cannot be found in the double species. Believing firmly in this, I have given my greatest attention to the development of the single types, as I am convinced it would be a great loss not to keep all the types up to the same standard of perfection.

We will take, for instance, the two singles, Pink Century and The Fairy. The colors are practically the same. Pink Century, with its immense blooms, the most beautifully and artistically shaped petals, appeals to us by the grandeur of its appearance; the

ender, with a deeper shaded band around the center; and Crimson Century, color deep glowing crimson, shaded darker, tipped rose with rose disc. Twentieth Century and Leone, the two beautiful original Centuries, are too well known to need more than mention, while last, but not least, comes the wonderful Record. This, unlike the others, grows to a height of only 3 to 4 feet, branching out with the same fern-like foliage, only finer. The flowers are of immense size, the purest yellow ground color, with a heavy band, or blotch, of the richest and brightest scarlet. This combination of yellow and scarlet is most striking. Toward evening the petals inclose, when they give every appearance of an immense tulip. The stems are very slender; wiry and graceful. The plant is probably the freest blooming of the entire lot, making a magnificent showing. The Record, however, has one drawback; it does not make salable roots, and can be handled in plants only to give entire satisfaction.

Taking up other new singles, Ami Downie is an improved Ami Barrillet, being a purple foliaged single, with much larger flowers. Alba Superba is the grandest single white of the full round-formed flower, the same general form as shown in the Gaillardia in the accompanying illustration. The Raven, dark maroon shaded black; Gracie, probably most delicate of the white suffused blush, with the possible exception of Blush Century.

In cactus dahlias, nothing is finer in pink than Kriemhilde; yellow, Volker; white, Siegfried and Winsome; while in the fancy type, a new departure in cactus dahlias, Mrs. H. J. Jones, is entirely in a class

anything else of its class. It is the only pure white show dahlia that combines stem, vigor of plant, and free blooming qualities. Every other white show dahlia to date lacks at least one of these qualities.

There is nothing of special merit in new pompon dahlias, the old collection covers the field so thoroughly that there is little else to be had.

Before closing I would call attention to the beautiful effect to be had by planting dahlias in mass for borders and for general effect; for parks, cemeteries and large estates. Most effective for this purpose are the single dahlias planted either in mixture or under color. While mixed flowers, as a rule, do not look well, yet a border of the highest grade new single dahlias, in mixture, is like a row of sweet peas—in perfect harmony with themselves and any neighbors.

BURBANK'S FADELESS FLOWER.—The Horticultural Advertiser (England), commenting on Wallace R. Pierson's article on this subject, which appeared in a recent issue of The Florists' Exchange, remarks as follows: "The point for growers on this side to make sure of is, whether this plant will succeed in our climate, bearing in mind the wide difference in Summer rainfall between England and California, and still more between our own country and Australia. However, we know that many California annuals succeed admirably here, so that a fair trial is what is needed. If the disseminators could arrange for an advance trial in this country before distributing, it might add very largely to the initial demand."

H. WEBER & SONS announce the completion of arrangements whereby they will, beginning in January, 1906, disseminate jointly with THE E. G. HILL CO.

THEIR TWO GRAND NEW CARNATIONS

MY MARYLAND AND JESSICA

MY MARYLAND is already well and favorably known, having been exhibited freely at the various flower shows and florist club meetings the past Fall and Winter, and in every case elicited the highest praise and most favorable comment. We pick this variety to quickly and easily displace all other whites for first honors, not alone in exhibition, but in commercial points as well. We claim for it a robustness of constitution quite unequaled in any other variety and an ease of culture that will delight the heart of the grower. The great vigor of both parents (Norway X Lawson) seems united and improved upon in this variety.

In **JESSICA** we have, in the red and white variegated class, what **My Maryland** will prove amongst white. It is descended through several generations of variegated seedlings of Helen Keller and Bradt extraction on the one side and Lawson on the other. A strong, thrifty growing variegated seedling bearing the seed. It is a trifle heavier in growth than **My Maryland** and just Lawson height. Aside from these differences and the color, the description of **My Maryland** applies to **Jessica**. Under favorable conditions four-inch blooms are not uncommon. We pick **Jessica** to win over any other variegated variety.

Both of the above are free propagators. We are thoroughly familiar with them and know what they will do. We will be in a position to deliver stock early and on time, and assure the trade that no disappointments will result on that score,

We have already hooked many orders. It pays to be early. Orders booked are subject to cancellation by the buyer if unsatisfied with either variety up to the time the cuttings are received.

PRICE: \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000.

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Carnations

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Guaranteed in every particular
Enchantress.....\$3.00 per 100
Mrs. M. A. Patten..... 5.50 "
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The most popular and best paying of all CARNATIONS. Large stock of rooted cuttings now ready.

\$3.00 per 100; \$25.00 per 1000.
White Lawson, 100 \$6.00 1000 \$50.00
The Queen, 2.50 20.00
Cardinal, from 2 1/2 in. pots, 12.00
ready now.
The Queen, 2 1/2 in. pots, 3.00 25.00

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DIRT CHEAP FOR ROOTED CUTTINGS

A No. 1 McGowan Carnation, to clean up about 4,000, the lot for \$20.00 or \$7.00 per 1,000, cash.

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ROOTED Carnation Cuttings

	100	1000
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Enchantress.....	\$3.00	\$25.00
Fair Maid.....	2.50	20.00
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Flamingo.....	6.00	
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Can furnish Cuttings of all the Standard Varieties
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FOR IMMEDIATE DELIVERY Carnations from Soil

Red Lawson, \$10.00 per 100; White Lawson, \$5.00 per 100. The Queen, \$2.00 per 100.

Chrysanthemums

Helen Frick, John Burton, \$5.00 per 100; 2 in. pots. William Duckham, Dr. Enguehard, Paola Radelli, Amorita, from 2 in. pots, \$3.50 per 100; \$25.00 per 1000. Eaton, Robinson, Ivory, Polly Rose, Mrs. Coombs, Appleton, Balfour, Shaw, Jones, white and yellow, etc., \$20.00 per 1000, from 2 in. pots. Rooted cuttings, \$12.50 per 1000; unrooted cuttings, 7.50 per 100.

Geraniums

Double Dryden, the best of all recent novelties, 2 1/2 in. pots, \$5.00 per 100; 4 in., \$3.00 per 100. Assorted novelties of recent years, 2 1/2 in. pots, \$4.00 per 100; 4 in., \$8.00 per 100.

Hardy Phloxes

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ROSES

Hardy Roses for Canada.

(Read by Thos. Powtress at March meeting of the Montreal Gardeners' and Florists' Club.)

The subject that most appeals to my mind at the present time is that of the rose for outdoor cultivation, or what we may call hardy roses. By hardy I mean those varieties that I consider will stand the climate of Canada in the Province of Quebec, and come through the Winter to bloom as only the rose can bloom in the month of June.

I consider the Rosa canina, or dog rose, the best stock for hardy roses; much better than the seedling briar or manetti.

The species that interests us most is Rosa centifolia, or the old cabbage rose, from which has sprung so many beautiful varieties, and while on that subject I may say that I am of the opinion that a class of roses could be raised from the wild Canadian rose crossed with the Rosa spinosissima, or Scotch rose (which is very hardy), and by again crossing with any hardy h. p., always using the native rose as seed-bearer, a hybrid may be raised that would not require protection in Winter; but this subject would have to be taken up and worked out by men with means and time, which the florist and gardener of today have not to spare for it.

I will now pass on to the hybrids with which we are familiar. First in point of numbers comes the hybrid perpetual flowering, but I should not put that

Hybrid China—Laurette Messimy, Mme. Eugene Re-sal.

Polyantha Ramblers—Thalia, Helene, Euphrosine, Crimson, Aglaja, Dorothy Perkins.

Polyantha Dwarf—Anne Marie de Montravel, Cecile Brunner, Gloire des Polyantha, Mignonette, Perle D'Or, Paquerette.

Moss roses—Blanche Moreau, Crested Moss, Old Pink.

Rosa Rugosa—Crimson and White, Striped Provence, York and Lancaster.

The new single roses of Messrs. Dickson are a class by themselves, being single teas, very free flowering, including Irish Beauty, Irish Modesty, Irish Pride, Brightness, Star and Glory; also the beautiful sweetbriars of Lord Penzance.

I know I have omitted a great many good things, but the foregoing varieties would make up a very choice collection.

As regards culture. I consider roses should have a garden to themselves in any place, large or small. They want a sheltered spot, but not under trees. Any situation that has a windbreak will suit them. They like plenty of air, but will not stand the full force of a west wind blowing on them and bruising their young shoots.

The soil is a very important item in rose culture. If the natural soil is very light, I would suggest some very heavy clay loam to be well mixed with it; if the light soil can be removed altogether, so much the better, and a compost of loam and rotten manure made to take its place. The ground should be trenched 2½ feet deep, and cow manure mixed with the sub-soil; then eighteen inches of the compost put over the surface. The Autumn is the best time to prepare the ground, and the Spring to plant.

to earth up the plants with six or eight inches of soil taken from between the rows, then peg down the shoots in a row, or tie the first one to a stake, and tie each rose to its neighbor afterwards, then put on a heavy mulch of manure, with the droppings well shaken out of it—this to prevent heating should the weather turn mild afterward. It is better to uncover as early as possible after the snow goes. Roses will bear fifteen to twenty degrees of frost.

FRUIT UNDER GLASS.

Making the Border.

Borders play a prominent part in securing quality in the fruit produced. Of course, good fruit has been produced in the natural soil with no preparation made as to digging out, etc.; but this is what I term taking chances. The aim should be, in growing fruit under glass, to bring it to the highest perfection possible; therefore, it is necessary for the fruit man to know the conditions of his border, and whether the drainage is perfect. While all fruit trees are moisture-loving subjects, especially when in active growth, anything of a stagnant nature must be guarded against.

In building fruit houses, conditions may not always be as desired. One should avoid, if possible, having the houses on low ground; they should be fairly well elevated. To my mind, fruit houses running north and south, even span, cannot be improved upon. A curvilinear house, I must admit, is effective, especially from an outside appearance, but for a practical house a straight roof is preferable. The bunches will always hang clear of the foliage in a straight-roof house, whereas in a curvilinear structure, especially at the sharpest bend, the bunches hang among the foliage. Whoever has thinned in the two styles of houses knows full well which is the handier to get at.

The first thing to be considered in making a fruit border is perfect drainage, which, I am thoroughly convinced, is the foundation of fruit growing under glass. We may take all the pains we choose as to airing, watering, feeding, etc., but if the drainage be imperfect then we are seriously handicapped in getting the desired results. Years ago the majority of the fruit produced under glass, both vines and peaches, was grown in outside and inside borders. Now-a-days the tendency is to restrict the roots to inside borders only. I am satisfied, however, that good fruit can be procured either way, providing enough leaves are placed on the outside border in the Fall to keep out frost. Leaves are the best protection that I know of.

I shall confine my remarks to the inside border. In the first place, dig out the ground so that there is room for two and a half or three feet of soil in the border; this means going down four or four and a half feet. Lay a tile drain down the center of the house, or houses, three or four-inch drains preferred, making sure they have a fall to carry off the water freely. In laying this drain through the whole length of the houses, we first figure how many openings are necessary to carry off the drainage. There should be openings into the main about every twenty feet or so. When this is complete, and every necessary connection made, test the drain with a good supply of water. Rough concrete in the bottom will be all right, having the center 6 inches lower than the sides. This allows all the water to run off into the drains. The concrete should be low enough to allow one foot of drainage in the center, tapering off to six inches to the side. It is immaterial what kind of drainage is used. Brickbats make a good job, with a thin layer of oyster shells on top, if they are to be had. From the top of this drainage to the surface should be from two and one-half to three feet, the aim being to keep this drainage as free from soil as possible. Of course, sod can be cut and put in, grass side down, but before doing that even, as a preventive I would put on a thin layer, such as comes from the stable, shaking out all the loose manure.

The next question is soil. I have read about preparing soil for fruit borders that it is necessary to cut the sod, pile it up, turn it over a few times, add the bone and whatever ingredients were necessary. This is an expensive operation. I would recommend plowing up some good sod land, similar to what we would call good rose soil, cart it into the border as soon as plowed, no matter how rough it is—the rougher the better, providing it is packed as firmly as possible. As the soil is put in in layers, a careful man can add the bone—rough bone at the bottom, say, for the first foot of soil, gradually decreasing the size to half an inch; in fact, for the top, even finer might be used. Or for the top surface blood and bone would be all right. I do not believe in using any farmyard manure in making a fruit border, nor in making a border for young vines to have it any way rich. It is an easy matter to add where it would be difficult to take away. Take wood ashes and bone combined; I would not use more than one to fifty of soil, for grape vines; and for peaches and nectarines, one to seventy-five.

While here I am not recommending rich borders, after the fruit trees and vines get thoroughly established, and are carrying heavy crops, feeding must be attended to. As I have stated, these remarks apply to inside borders only. One thing is certain, such borders take lots of feeding when once the soil is filled with roots; also when the fruit is swelling rapidly, a liberal amount of water. There is not much fear of the soil becoming sour if perfect drainage has been afforded.

WM. TURNER.



ROSA WICHURAIANA IN PROSPECT PARK, BROOKLYN, N. Y.

first in importance, as I consider the new hybrid teas are the roses of the future. For freedom of flowering and beauty of flower, they combine the h. p. and teas, and I consider them an improvement on both, having the broad petals of the h. p. and the long bud of the tea. They open out well in water when cut in the bud state in the morning. This is much in their favor, as roses do not stand the burning heat of a clear Canadian Summer day very well.

In addition to the h. p. and h. t., there are hybrid China, hybrid Bourbon, hybrid Polyantha, hybrid Rugosa and last, but not least, the hybrid Sweetbriars, handed down to us by Lord Penzance.

Of the hybrid Perpetual, I consider the following the best for this place, having proved them for two years, and some have been here for ten years, and are strong and healthy now, and throw off some very fine flowers, viz.: Alfred Colomb, Augustine Guinois-seau, Duke of Edinburgh, General Jacqueminot, Heinrich Schultheis, Jules Margottin, John Hopper, La France, La France de '89, Frau Karl Druschki, Margaret Dickson, Marie Baumann, Marquis de Castellane, Mrs. John Laing, Prince Camille de Rohan, Reynolds Hole, Ulrich Brunner and Victor Hugo.

Hybrid Teas—Bell Siebrecht, Bessie Brown, Kaiserin Augusta Victoria, Mme. Abel Chatenay, Mme. Caroline Testout, Souvenir du President Carnot, Duchess of Portland, Mildred Grant, Lady Moyra Beauclerc, Antoine Rivoire, Lady Battersea and Marquise Lita.

Hardy teas and Noisette—Anna Olivier, Catherine Mermet, Francis Kruger, Hon. Edith Gifford, Jean Ducher, Mme. Hoste, Maman Cochet, Marie Van Houtte, Mrs. Mawley, White Maman Cochet, L'Ideale, Mme. Pierre Cochet.

Hybrid Bourbon—Mme. Isaac Pierre.

While planting have at hand a barrowful of soil, well pulverized; make a hole for each plant and use the soil to plant in, taking care the roots do not come into contact with any manure. Many failures result from this cause, as when the plant throws out young roots, they strike the manure instead of soil, and the manure being too strong for them, they just die away again.

Deep planting should be avoided; this often causes failure. It is better too light than too deep. As far as I have been able to judge, the union of the plant should be about an inch below the surface of the soil. Of course, I am speaking of roses on seedling briar, or briar cutting stock, which I consider the best to use. The roots should be cut back with a sharp knife to about nine inches, and bruised or broken roots removed altogether. After planting, the ground round the plants should be made as firm as possible by treading, if at all practicable.

Now for pruning; this again requires care and judgment. If the plant is not pruned hard enough, there will be too many blind shoots, robbing the plant and doing no good. If the plant be at all weakly, it will require harder pruning, but a vigorous, strong plant would possibly do best with lighter treatment. I think pruning should be done as early as possible, that is, as soon as the plants can possibly be uncovered. If the sap has risen too much, the plant will bleed badly and weaken itself. It is impossible to say exactly when to uncover the roses, but the end of March, or a fortnight earlier or later, according to season.

I will not deal with insect pests, as you are all familiar with them and their remedies.

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(Mme. Norbert Levavasseur)

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P. O. Box 1697

NEW YORK

Covent Garden Market, London.

An Interesting Account of the Workings of the Largest Mart for Horticultural Products in the World.

By A. HEMSLEY.

Our central market for all horticultural produce is situated in the very heart of the great metropolis, and if not quite all that might be desired, it is certainly the most important horticultural market in the world and one of the oldest. Originally the ground now occupied by the market was the garden of a convent, hence its name. Being in such a central position, the space at command is somewhat restricted, yet the best possible use is made of the area available. I have met people from all parts of the globe, and though some suggest that there are more commodious markets, it is generally conceded that Covent Garden is the busiest market in the world.

The fruit and vegetable market comes under the same control as that for the plants and flowers, but they are kept entirely separate. The whole of the area occupied by the markets belongs to the Duke of Bedford, and is under the control of his agents. Yet, though practically a private concern, everything that is possible is done to keep up with the times, and to provide for the ever-increasing demand made on their resources, the latest addition being the large hall built for the accommodation of imported flowers, the trade in which has grown so enormously. This was done chiefly to relieve the ordinary flower market, the English growers having complained that the foreign produce interfered with their trade.

The large hall, which was built just over thirty years ago, has since been enlarged, and is now a most commodious building. But previous to the erection of this, the accommodation for the flower trade was very poor. The building, which is still known as the "new" flower market, has 370 stands, which are about 6 feet long, with a width of about 5 feet on the ground, and three shelves above, the bottom one about 3½ feet wide, and the two upper ones about 2 feet wide, with a depth of 2 feet between each. This gives sufficient space for most flowering plants, and larger ones can stand on the top or on the ground. Growers occupy from one to six stands, according to the space they require, or rather the space they can secure, for there is a big demand for stands, and it may be a long time before a new grower can secure even one stand. The stands are let at a yearly rental of from £10 to £13, the commission men having to pay £2 per annum more than growers. And when there are stands to let, growers are supposed to have first choice; but I find there are now a good many commission men holding stands.

Although the stands are let at an annual rental, the market authorities reserve the right of subletting any that are not actually occupied after a certain hour. And any grower coming in late may find his stand occupied, and must look for further accommodation and pay for it, too. Of course, it is generally known who are likely to be coming in, and it is seldom that any stand holder is put to the inconvenience. In addition to the annual rental there are various tolls to pay, and anyone not holding a stand is charged 1s. 6d. per morning for any stand that may be available.

The market is open for plant trade every morning from the first of April until the end of July, and during the other portion of the year three days only (Tuesday, Thursday and Saturday), a portion only of the market being open on what are termed bye-days for the sale of cut bloom alone, when an extra charge of 1s. 6d. per stand is made, even to regular stand holders.

The market is open for unloading at 8 p. m. the previous evening; and for trade from 4 a. m. to 9 a. m. during May and June, and 6 a. m. is the earliest at other times. Plants not cleared out may remain on the stands until the

next market, but if on a stand only held for the morning they may get removed to another stand before the next market. Cut flowers and plants are sold on the same stands on ordinary market mornings.

Most plants are unloaded in the evening and the stands left ready for trade in the morning. The growers, or their salesmen, sleep near the market. Porters are provided for helping with the unloading, and most convenient barrows are furnished. Women do most of the carrying out in the mornings; the baskets, which hold upward of a dozen pots, are handled with the greatest ease by most of the women.

dispose of their own stock have gone back to the commission men again.

All imported produce is sold by commission men, but this is received and sold under quite different terms and conditions from those which govern our English produce. There is an arrangement between the agents by which the growers are insured of a certain return for their produce, the agent taking some of the risk. But with English produce, sent on commission, if it fails to sell at a price to cover all expenses the grower, besides getting no return, may be called upon to pay out to cover expenses.

From the middle of April until the middle of June is the busiest time in the Covent Garden flower market; during this period every available space is occupied, and much of the stock of ordinary bedding plants is sold outside the ordinary flower market. The new hall for foreign flowers is built on pillars and the space beneath is already (April 15) pretty well filled up with stands for the Spring trade, the stands being temporary arrangements fitted

and grandfather were in the same business before him, the firm having been first established considerably over a century ago. Mr. Garcia speaks of the time when the area which is now so well covered was an open piece of ground, with rows of small wooden structures for market stalls. It was in 1835, when some of the most important building was done.

Most of the commission salesmen have large warehouses adjoining the market, where a good deal of trade is done after the flower market is closed; and some of the large growers are following the example. Messrs. T. Rochford & Sons have a large warehouse where they usually have an extensive assortment of plants, also cut bloom, which can be procured at almost any time of the day.

In regard to the sales, or disposal of produce, there is no union or regulation among growers, each disposing of his own to the best advantage; consequently, it is very difficult to give even approximate prices. Of course, the variation in quality makes it most difficult to make any uniform arrangement. Most salesmen try for the highest possible prices early in the morning, when the best buyers are in (that is, the leading florists), and those who must have best material, and some refuse to lower prices much even though they may have a lot of perishable stock on hand at the close of the market. But there are others who will clear out if possible at any price; and this is one of the worst features of our market, for hawkers buy at very much reduced prices, and are able to sell at lower values than the regular florists paid early in the morning. And I have heard florists complain that this has been done in front of their own shops. Most salesmen are ready to take advantage when there is an extra demand, or shortage, in any particular line. There are some who arrange with customers for a regular supply at fixed prices through the season, and this enables the florists concerned to book orders without much regard to market fluctuations.

The commission salesmen dispose of a good deal of imported cut bloom by auction, but after the first lot is knocked down, large quantities may be cleared at the same price without further bidding.

Hardy Orchids and Their Cultivation.

For those who have already acquired an interest in hardy plants, the hardy orchids form one of the most interesting classes. Out of the forty or more species indigenous to the Northeastern States, there are many that are well worth a place in gardens. Without doubt the most showy genus of the family is the cypripedium (lady's slipper), and the largest and finest is *C. spectabile*. This is no doubt a showy plant when in flower and one well worthy of a place in every garden. It grows to about two feet in height; the stems clothed with broad, handsome foliage. The flowers are composed of a large inflated lip, pinkish in color, and the sepals and petals are pure white. Although an American plant, it is much more common in European gardens than in the gardens here. Few gardens in Europe, where hardy plants are given any consideration, are without good examples of this hardy lady's slipper.

It is of comparatively easy culture if a little pains be taken with it, especially in the selection of soil and situation. It requires a good, deep, moist soil, but not stagnant moisture, a spot that will be shaded from the sun's rays at noon and the soil rich in humus. These conditions well favor the growth of all the hardy orchids, with a few exceptions. Plenty of water in Summer, but not much in Winter, nor when the foliage begins to ripen, is what most of them require.

If a good start be made with this cypripedium, such as a good strong clump planted under the right conditions, there will not be much difficulty afterward, and the plant will continue to thrive and increase from year to year.

I have seen this plant grown as a pot plant with very good results, and it made a good showing in the Spring months. Outdoors it flowers in June.



CYPRIPEDIUM PUBESCENS

Photo by W. H. Waite

Almost all pot plants are sold by the growers, or their own salesmen, and a large proportion of the English-grown cut bloom is also disposed of in the same way; but growers living further away in the country send their produce to commission men. There are now a good many well-established firms who can do better than if growers came or sent with their own produce. The commission men also do a large trade in dispatching to provincial florists. The commission men who confine themselves to the English growers may vary a little in regard to their terms, but 10 per cent. is about the usual commission charged growers who send regularly. The commission men are not always looked upon with favor; they certainly have a difficult task to make satisfactory returns for some of the produce received, and there may be those who do not do their best for their clients, yet there are many who are reliable, and growers who have tried to

up to make the most of the space by those who bring in the stock. Most of the material seen in this outer market is from those who only grow plants for Spring trade and fill their houses with tomatoes and cucumbers as soon as the plants can be cleared out.

The Grand Row, Covent Garden.

This is a broad covered-in thoroughfare with shops, or stores, on either side, and was originally confined to retail flower and fruit trade. And there are still some who do retail trade only; some combine wholesale and retail, and others are now entirely wholesale depots. In the flower trade, Mr. Garcia always keeps up a splendid display of the best material procurable. "No second quality stuff is of any use to me," says Mr. Garcia. Some very interesting information may be gained from this gentleman, if you get him in the right mood for talking. He has been 62 years in the trade, and his father

Other species of the cypripedium which are also desirable are acule, pubescens, and parviflora. Mention must also be made of the beautiful C. calceolus, the only British representative of the genus. This is a very rare plant now, especially in its wild state. It used to be found in Yorkshire, England, and at another station in Cumberland; but it is now almost extinct. It is a large growing plant, the leaves resembling those of C. spectabile. The flowers are usually solitary, although I have seen them in twos. The labellum is clear yellow; and the sepals and petals of a deep rich brown.

Orchis spectabilis, which is found in the woods of New England, is also a good plant for the garden, but somewhat difficult to establish. The soil recommended for the cypripediums I have found very suitable. O. mascula, O. latifolia are common plants in Britain and are also desirable. The best of the orchids is O. foliosa. I have not tried this outside in this country, but think it would do well. It is a native of Madeira, and makes a splendid pot plant, having large leafy spikes of deep purple flowers.

Among the habernarias there are four which are natives of the Eastern States that are desirable. H. ambriata, with purple flowers, which blooms in June. H. psychodes, also purple, flowering from July to August. H. ciliaris, the yellow-fringed orchis, is also a beautiful plant. I have found the latter in large quantities growing on the light soil of Hempstead Heath, L. I., in the full blaze of the sun. The soil was moist, but not stagnant. That is one mistake that is frequently made in the cultivation of these plants; the natural habitat is often found to be a wet place and one is apt to take it for a bog; and likewise the plant is planted in an artificial bog, very often where there is no drainage whatever. A closer examination of the places where many of the wild orchids are found will prove that while the moisture is abundant, it is never in any way stagnant. There are, of course, some species of orchids that are found in bogs, and the fourth species of habernaria native to the Eastern States is one of these—H. dilatata—a beautiful species having white flowers and very fragrant.

Of the European species that I have tried I have found H. bifolia the best. I shall never forget the first time I saw this plant growing on its native heath; it was in Perthshire, Scotland, in a field at the foot of one of the big bays, yet a little on the slope was literally white with its beautiful flowers, and no one interested in hardy plants but would be impressed with the scene. It is commonly called the butterfly orchid. The flowers are creamy white, with tips of spur and lip greenish; the flower spikes rise to a height of from twelve to twenty inches. The flowers are very fragrant, especially in the evenings. It blooms in June. Any good, deep, loamy, moist soil will suit this species.

Goodyera pubescens, or the rattlesnake plantain, is one of the most difficult to cultivate. It is valued more for its beautiful foliage, which is of a dark green, with white veins, than for its small white flowers. The leaves are evergreen and are very conspicuous in early Spring. It requires shade and a loose soil. It is found growing in pine woods, hence pine needles mixed with the soil are often of an advantage. It must on no account have any stagnant moisture.

All the hardy orchids should be given a little more than ordinary attention, and any extra care will be fully repaid when they are established. They ought to be protected with a slight covering of leaves in Winter, but should not be covered with manure. A mulch of some loose material should also be given in Summer to prevent excessive evaporation. We must not forget that in nature they are found growing among, and mixing with, other plants, in many cases sedges and grasses. These all prevent evaporation from the surface of the soil. The best way to start in the cultivation of these interesting hardy plants is to resort to their native haunts and procure sound and vigorous specimens. They can be lifted when in full flower and should be taken up with as large a ball as possible. They may also all be cultivated in pots, by plunging the pots in a cool bed of ashes, where they can have the best aspect suitable to the individual species.

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Floral Story of the Year.

Mr. A. Herrington, of Madison, N. J., was a recent speaker at the weekly lecture of the Massachusetts Horticultural Society. His subject was "Some Aspects of Hardy Flower Culture." He spoke in part as follows:

Notwithstanding all that has been written in the past about style and design, there is no garden so beautiful as that untrammelled by the application of needless geometry to its plan and planting. A certain formality may be necessary and right about the house, but those who tell us the garden as a whole should be a thing of formal design are enemies to true gardening. They are perhaps not so through willful intention, but from lack of knowledge or inability to see and appreciate how their much-vaunted formality circumscribes or prohibits the possibility of good gardening by limiting us to the use of a few forms and types of vegetation adapted to the formal scheme.

Getting Near to Nature.

The flower garden that is here advocated goes beyond the prim beds and borders, although admitting the propriety and necessity of these in their places. It advocates getting as near to Nature as the garden will permit, or, in other words, doing in many ways what Nature does, with a tolerable certainty of good results. It will give us flowers on the hillside, flowers in the valley, flowers in the open sunlight or in the shade, in the grass or in the woodland; in short, it will enable us to have flowers in hundreds of places that surround the home, heretofore only devoid of them by reason of our neglect to plant; and, which is perhaps of great importance to many, at a minimum

simple matter of lifting the sod and underlying soil, dropping in the bulbs and replacing the sod, taking care to plant the groups in a natural or irregular way.

Something About Tulips.

A word concerning tulips. The familiar type is that of the garden varieties, of which there are hundreds—important Spring flowers, too—but scattered through Europe and Asia are a score or more of beautiful and most variable species that can be semi-naturalized about the shrubbery and plantations and bring to the gardens new forms and types of tulip beauty. There is the sweet-scented yellow *Tulipa sylvestris* of Great Britain, a charming variety to naturalize; others with branched stems bearing several flowers, novel in appearance to those who have seen only the solitary flowered, ordinary tulip. *Tulipa præstans*, from Bokhara is a fine species with sometimes as many as five flowers of a bright orange red on a stem twelve to fifteen inches high, and *Tulipa persica*, from Persia, is another branching tulip, with brilliant yellow, bronze-marked flowers. In all the tulip family, wild or cultivated forms, few can compare in gorgeous beauty to *Tulipa Greigii*. Besides these there are many others, and if you would take the species and make a tulip garden of them you would wonder why you had so long been contented with the ordinary garden tulip.

The continuing of the floral procession brings next to view the taller plants, with larger flowers and a veritable host is at our command. The massing of a collection of hardy herbaceous plants in a long mixed border is at its best a mere collection of units, yet collections more or less in number mainly represent the extent of hardy flower culture. The collection has its place, but it cannot be made a strong feature of the garden. If our aim is to create pictures in the gar-

gather an assemblage of pretty, easily grown plants and make a Spring garden of exceeding beauty. Here are some of the important families: Alyssum, arabis, phlox, sedum, saxifrage, sempervivum, Iberis, epimedium, silene, pulmonaria, primula, armeria and many others. To see and enjoy these to the fullest measure, we must not be content with them as units; we should have them in hundreds and thousands, if room permit. Some of them are admirable for planting in broad masses as a fringe or margin to shrub plantations; they may even be used as carpet plants where choice shrubs stand widely apart, but beyond this they justify the making of a special feature, especially where the topography or geological formations permit.

An Iris Garden.

Suppose we decide to make an iris garden. Here is a family worthy of ten times the attention it gets in the ordinary garden, and no matter how much space you have at command you can plant half an acre or more if the space justifies so extensive a planting, and yet show difference of variety in every square rod with fitness of association throughout the whole arrangement. Instead of a mixed medley of everything that flowers at iris time, consider irises only and see what the family has available for such planting. Do you know that you can have an iris garden that will give you profuse and unbroken succession of loveliness from April well on into July? and that, too, without using the family in its entirety, as some types like the cushion irises and the bulbous class need separate special treatment. An appropriate setting to and background for an iris garden is a belt or plantation of shrubs, planting the irises in bold groups in well-prepared soil in the foreground. The dwarf growers are the early bloomers and height of growth and time of flowering are in such perfect harmony that there need be nothing incongruous in the arrangement.

A Peony and Lily Combination.

Peonies and lilies, happy in appropriate association, replete in variety, may be suggested for another special extensive planting, a garden of them, in fact. The peony needs no eulogium here, as it is one of the hardiest and best appreciated of hardy garden flowers—something you can plant and leave alone for a number of years. There is an unlimited choice from which to plant. A careful selection of the best should be made, not, however, forgetting some of the species like the Chinese albiflora, with its great, single, white flowers as large as a plate, and varieties in other colors that have been raised from it. Other single flowered species, natives of Europe, and their varieties are important, too. The peony season is not a long one. While peonies are not averse to the open sunlight, it should be borne in mind that they do remarkably well in the shade, even quite near to large trees, so that a peony garden might be made a great success in a position where an iris garden, if attempted, would be a failure.

With the passing of the peony bloom, nought remains for the balance of the year but their own great tufts of luxuriant leafage, hence the suggestion to plant lilies with the peonies. To give ample room for development, it is essential that we plant our peonies at least a yard apart, as by the time they attain full growth they will completely hide the ground, yet there will be much unoccupied ground beneath or between the great spreading leaves. This is just the condition desired by many lilies. They raise their heads of glorious blossom high in the air, much higher than the peony grows, while the peony foliage, over-spreading and shading the ground, furnishes comfort, shelter and protection from the burning sun to the lily roots. In this association of peony and lily we have practical adaptability, as well as artistic fitness, and the lily family suffices to continue the flowering interest in the garden almost to the end of the year.

Other Plants Worthy of Attention.

Numerous other groups of flowers have strong claims for consideration. Suppose you have a good, deep, fertile soil that will grow good delphiniums, why not plant a group of a hundred or more? In all Flora's fair family there are none more stately, and what a range of color they present in every conceivable shade of blue! Perhaps your ground is poor and shallow; then take the yuccas, filimentosa and flaccida, and plant these in bold, broad masses. In New Jersey, and, doubtless, elsewhere, there are by the country roadsides great groups of the tawny day lily, *Hemerocallis fulva*, apparently wild, and gorgeous they look with thousands of flowers open at one time on a July day. Does not this suggest a similar free use of the other species of *Hemerocallis* in our gardens, in association with tree and shrub in a wild, free way? *Bocconia*, *crambe*, *ferula*, *echinops* and *polygonyum* are names that to those who know the plants that bear them recall those of great size and striking character, too coarse, perhaps, for the choice collection, but, given a place in the tree and shrub plantations, they will give the garden another aspect of beautiful, hardy vegetation.

As Summer verges into Autumn other great groups continue the floral story of the year. In short, hardy flower culture presents so many aspects, provides us with material suitable to every kind of soil, condition and environment, with flowers for Spring, Summer and Fall in unlimited variety, as to make utterly inexcusable the generally prevalent monotony of so-called flower gardening. Instead of universal imitateness in the display of tender Summer flowers, we want original, adaptive plantings of those that are hardy and permanent, and this we must do with the knowledge that no garden can do justice to them all.



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Most of the Spring bulbous flowers need no cultivation at all, in the sense in which we understand or apply that word. They are children of Nature, wild species, abounding still in grassy meadows or leafy woods. We, too, can plant them under conditions of similarity. Snowdrop and crocus, scillas and dog-tooth violets are perfectly happy and infinitely more at home planted in association with trees and shrubs. They often perish from disease, if not killed by disturbance in the deeply dug, manured border, yet associated with trees and shrubs and left undisturbed they will go on from year to year increasing and multiplying in numbers and beauty.

As these early harbingers of Spring fade away, the floral procession is continued with flowers of greater stature and more striking beauty. Of these there is the great group of daffodils. It is essentially a European family, but they need not be strangers to our gardens. The home of the daffodil is in the grass; in fact, some of the prettiest species refuse to live more than a year or two in cultivated ground, yet in the same garden planted in the grass, continue from year to year with proportionate increase. All that you require is a grassy spot that need not be mown until midsummer. The smallest nook can be prettily adorned, and if you have an acre or two to devote to the purpose, the possibilities are immense. Planting is a

den landscape, effects of color, distinctive features in different parts, selections, not collections must be the rule. As soon as we depart from the collective method and take up the selective, the availability of hardy flowers for garden decoration is enormously increased. For example, take some special class of plants suited to a chosen spot, both from the cultural standpoint and with relation to effect in the garden landscape. Thoroughly prepare the soil and plant it and you can create a flower feature that will stand from five to ten years with only the ordinary care of keeping free from weeds.

Alpine Beauties.

The bulbs, numerous as they are, comprise only a part of Spring's contribution to the floral gaiety of the earth. Another type of vegetation, of perennial characteristics, offers to the garden a wealth of beautiful material. Alpine flowers, we used to call them, and a rockery, or rock garden, was considered an essential adjunct, in fact a necessity, before attempting their cultivation. Too often they perished from drought or starvation, when planted on ill-constructed rockeries. Many of these gems from the high mountain ranges of the world are just as happy if suitably planted and cared for upon the level ground such as the garden affords. Because they are indigenous to high altitudes, it does not follow they must be strangers to gardens. From these lowly types of high mountain life we can

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Luther Burbank—An Impression.

To the horticulturist in general, the name "Burbank" has a great deal of meaning, but to one who knows Mr. Burbank, and knows the story of his life, and his work, and is in addition a lover of Nature, having an appreciation of the power which this man exerts over plant life, the name makes a deeper impression and carries an added respect and admiration.

It was my good fortune to meet Mr. Burbank, and my visit to Santa Rosa and his home I look back upon as the most interesting day of my trip to the State of California, and, as a lover of plant life, the most interesting day I have ever spent.

January is, perhaps, not the ideal month to visit such a place as the Burbank establishment, but even so there is so much to be seen that is new and interesting, and so much to be learned that the most unfavorable day in the year would be bright.

A great deal has been written by competent men on the subject of Burbank and his work, yet the half has not been told, and never could be told, unless volumes were published, dealing exclusively with the work which he has carried on. The diversity of subjects and the magnitude of his experiments are beyond the comprehension of the ordinary individual, and to only a few is it given to really know the man and the motives which underlie his life work.

Luther Burbank was born on March 7, 1849, in Lancaster, Worcester County, Mass., and, as a boy, his start in life was not auspicious.

By nature he was frail, and his circumstances obliged him to earn his own living while still a boy. The Ames plow factory gave him employment, and while in the employ of this concern, at the nominal wage of 50 cents per day, he showed the inventive spirit which he has used throughout his entire career in his work on plant life. The invention of a wood-turning machine made an opening for him, and yet he chose the life among plants, which he loved, rather than the indoor life and confinement, which an acceptance of the position offered him would have necessitated.

While working in this factory, as a boy, he carried on his early work on potatoes, his mother's garden being the scene of operations. From seedlings of the Early Rose variety came the potato which gave prominence to the originator; but California appealed to him, and he went West with his fortune, in the shape of ten Burbank potatoes. These he had reserved when he disposed of the variety to James J. H. Gregory, of Marblehead, Mass., for the sum of \$125. It is of interest to note that statistics show that the variety has produced crops to the value of \$20,000,000 since that time.

Hard work, physically, was an impossibility to Mr.

Burbank, owing to his frail constitution, and his first venture in Santa Rosa was selling trees. This gave him the sum of \$15, and he then rented a small piece of land in the vicinity. The trees were blue gum trees and they are to-day standing on McDonald avenue in Santa Rosa.

While working this small piece of land, a gentleman by the name of Marshall became interested in him and in the work he was doing, and loaned Mr. Bur-



LUTHER BURBANK.

bank the sum of \$200, which was used to increase the acreage of his farm, and to aid in his experimental work. For a short time, Mr. Burbank was employed in writing seedsmen's catalogues, and this work, in connection with collecting seeds of many of the native California plants, added to his income. The seeds which he collected were for shipment to Europe, where a large number of California native flowers were being grown.

The real start of Burbank's nursery came suddenly. Mr. Warren Dutton, a wealthy fruit man, came to

Mr. Burbank with a proposition. He wanted 20,000 prune trees within a year. To get these by ordinary methods in this space of time was an impossibility. The inventive power of the man came to the rescue, and after considering the matter over night he took the contract. By buying up all the almond stock in the market, and grafting on the prunes, he filled the order, which gave him his real start in the nursery business. The process of grafting the prune on to the almond stock was new, and entirely original with Mr. Burbank, and this showed the power of the man, who would dare attempt such a step without previous experiment. This daring to attempt new things has been the leading feature of his undertakings, and to it is due the success he has achieved.

A visitor, well pleased with the Burbank nursery, brought to him the New Zealand trade, and through Cecil Rhodes the fruits of Mr. Burbank's origination have found their way into South Africa, where the Burbank plum is widely grown for the London and other European markets. Through Mr. Burbank, then, American horticulture has invaded these distant countries, and the success in South Africa and New Zealand of the Burbank plum has been very marked.

Which line of Mr. Burbank's work has brought him the most prominence is hard to say. In the East, one would say the potato, but in this State the fruit industry owes more to him than it can ever repay. Potatoes were his early study, and he is still working on them. The feature of his potato experiments is the growing of seedlings in the greenhouse during the winter, thus saving a year's time in every instance. New subjects in the potato line, of South American origin, are being used in his crosses, to infuse new vigor and to upbuild what might be called the food of the nations. The future will bring forth, from this base, potatoes which will be a decided improvement on anything which Mr. Burbank has yet produced. He is, however, not yet ready to place before the people these varieties, believing, as he does, that they are subject to still greater improvements, and that they have not yet reached the perfection which he believes to be possible. Inquiries as to these new varieties Mr. Burbank does not desire. The field of experiment is too wide, and the answering of the inquiries would entail so much work that it would needlessly interfere with that which he is carrying on.

Then, in the fruit line, the work which he is doing is of incalculable value. Plums, prunes, apricots, pears, quinces and the new cross between the plum and the apricot, which is called the "plumcot," divide honors, and he is working wonders with them all. He dares to take liberties with Nature, and the results are often new species, as in the case of the plumcot, where we have something like both parents, and yet distinct from either, and we have a new fruit which possesses commercial possibility, which will, in the future, add to the revenue of the greatest fruit-growing district of the world.

The best paying crop in Southern California is, according to general opinion, the English walnut, and this has received a merited share of Mr. Burbank's attention. The result of this study and experiment is a hybrid walnut, showing an improvement in the size and the character of the nut produced, and a nut that is superior in texture and flavor, and one with practically no color to the meat, and no tannin to detract from its value as a food. The very growers of this nut in California do not know that their favorite crop has been a subject of study, and those who are the first to learn of it and take advantage of the im-



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provement will be the ones who will profit by their knowledge.

The far-famed Logan berry was an accidental cross between the Cuthbert raspberry and the native dew-berry of California. This berry was discovered by Judge Logan, of Santa Cruz California, in his garden. Recognizing that there were possibilities here, and knowing the value of selection, Mr. Burbank has, from the same cross, produced a berry which he has named Phenomenal, surpassing the Logan berry in flavor, and which is, aside from being a more palatable berry, in an uncooked state, an enormous yielder.

The sugar prunes can trace their origin to the Burbank experimental grounds, and we have now to look forward to the stoneless fruits, on which the originator is doing a wonderful work. Consider for a moment that last season 160,000 different varieties of plums alone were grown and tested, and you will begin to realize what his work includes. Selection is the basis of his work, and on the number of individuals he bases his claim for improvement and variation of existing types.

For the botanist there is much to study. Over 2,000 distinct species of plants are to be found here, and collectors all over the known world are sending in new species and new varieties for experiment. The fadeless flower is one of these which came from Australia to the gardens at Santa Rosa, and after being developed and improved, as it has been, the future for it is as bright as the history of this peculiar flower is interesting.

Rare specimens of plant life, and peculiarities of Nature, are met with at every turn, and I merely mention, in this connection, a few of these, which this most interesting man pointed out to me as we walked about among them.

The heuchera, of two varieties, viz., sanguinea and micrantha, are plants which especially interest Mr. Burbank at present, and these are producing a beautifully crested foliage, which would be an ornament to any park or flower garden for a border, or for bedding purposes, it has a place; and the plants are, considering them as individuals, exceedingly beautiful.

Then the tuberous grape, a herbaceous type, which was discovered in a remote section of Mexico. In flavor, the fruit is like the Muscat, and is produced in much the same manner, but the plant dies down to a tuber when dormant. Solanum quitense, with its fruit similar to an orange, but in flavor like the melon pear, is an interesting subject, claiming Quito in Peru as its native home.

The yellow calla and the hybrid lilies, which are one of Mr. Burbank's specialties; the poppy in its improved state, as well as clematis and amaryllis, interest the visitor. Sweet peas and verbenas come in also for a share of attention, and one can almost wonder where the experimenter draws the line.

Among the interesting hybrids, a tomato-potato is a study for the botanist, and that such a cross were possible one would be inclined to doubt, but it is found here.

The thornless cactus is in itself a subject for a treatise, but the work is but in its infancy. Thornless cacti were grown and shown some years ago, and the question of their economic value must be settled before this type of plant life can be fully written up.

The reclamation of the deserts of the world depend on some such plant. Given the necessary water for the stock, and a thornless cactus, on which sheep can feed, and which contains sufficient nutrition for their existence, consider the possibilities of such states as arid New Mexico and Arizona. Among Mr. Burbank's specimens of thornless cacti, there is one plant now three years old, which will weigh in the neighborhood of 800 pounds, perfectly thornless, and the substance of which, according to those who are well informed, is



CRINUMS AT BURBANK'S EXPERIMENT GROUNDS

nutritious and edible, and which sheep will eat without hesitation. A cross breeding of this thornless cactus, with the cacti of Alaska, as it is now being carried on, it is hoped will bring about a hardy variety



BURBANK'S DWARF AND GIANT CALLA



BURBANK AMARYLLIS

of arid countries will depend on the result of the effort and experiment.

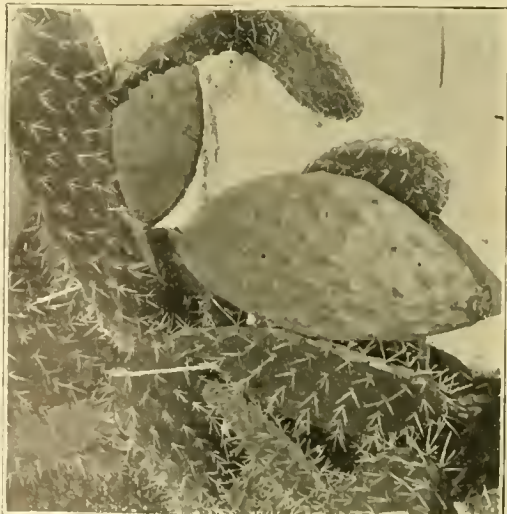
I have given you a mere outline of the work which Mr. Burbank is doing, and as I saw it on the occasion of my visit; but to me it has been the subject of considerable thought, and it has been a pleasure to study these subjects. I have said one should know Mr. Burbank personally to understand the principle which underlies it all. He is a very busy man, and his work is all the burden that he is able to carry. His aim is not wealth; he is actuated merely by a love of plant life and a desire to help and uplift humanity, by improving the vegetable life, which is back of, and a part of, a prosperous nation. The value of this work can never be measured in dollars and cents. It is beyond that, and the personality and perseverance of the man alone make these results, which he has obtained, possible. To his mother, who shares his home, and to his work, the man is devoted, because he loves them, and is happy with them. The visitor, who is fortunate enough to have a personal acquaintance with Mr. Burbank, meets a man of the kindest possible disposition, a man who never advances his own theories to contradict a friend, and yet a man whom one cannot meet without being impressed and without realizing that he has met a man who is truly great, and who is worthy of the deepest admiration and the greatest respect.

"Ask no questions which you think can be answered elsewhere" is the motto which greets the stranger, and five minutes is the time allotted to the casual visitor. A favored few, however, break through these restrictions, and meet the man whose personality is the backbone of the work. It is on the unerring judgment of one man, whose long experience and whose intuition render him capable, that success has de-

of cactus, which will live anywhere, and which will be able to withstand freezing. Thousands of cacti are being experimented on here, but, as I have said, the future must solve the problem, and the future of the



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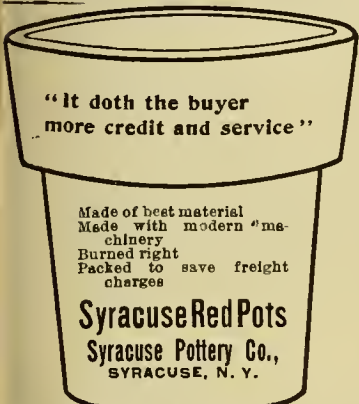
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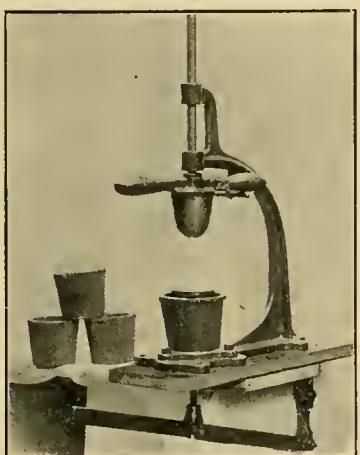
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pendent and to him should be extended the praise and thanks of the nation. As yet, California fails to appreciate him fully; and the world at large does not know and understand him. Above his desk, beside a painting presented to Mr. Burbank by the flower artist of California, M. Paul de Longpre, is a quotation from Emerson, which is appropriate: "If a man write a better book, preach a better sermon, make a better mouse-trap than his neighbor, though he build his house in the woods, the world will make a beaten path to his door." He has done none of these things, and yet where perhaps the Burbank potato or plum is unknown, the Shasta daisy is admired, and the lover of Nature seeks for the man who has made such a creation possible. Ten thousand visitors, during the previous year, is a testimonial to the truth of this quotation; and the new feature of charging an admission fee of \$10 per hour at the experimental farm is made only to deter those who enter for mere curiosity, and who, by their number, seriously interfere with the work. All would be welcome, and there is nothing which would not be open for inspection, but for the fact that experiments are interfered with by an over-supply of visitors and valuable time is lost.

Hugo DeVries, professor of botany in the University of Amsterdam, and a man who is looked up to and considered the leading botanist of the world, visited California recently and on his return to Europe delivered a lecture on the State of California, taking as his title "California Fruits; A Visit to California." This lecture, by the leading botanist of the world, has attracted a great deal of attention in Europe, and a copy of the lecture was sent to Mr. Burbank. This has been translated by a Mr. Vanderlyden, and the translation will be published shortly. To Mr. Burbank, the essayist and lecturer has given unstinted praise, and friends of our leading plant breeder unite with this world-famous botanist in giving Mr. Burbank the credit he so richly deserves.

WALLACE R. PIERSON.

Our London Letter.

BY A. HEMSLEY.

HARDY DECIDUOUS FLOWERING SHRUBS were a great feature at the last meeting of the Royal Horticultural Society, and the group staged by Messrs. Cuthbert, of Southgate, was one of the finest displays we have seen. It gained the society's gold medal. Azaleas, mollis, sinensis and hybrid varieties, were in grand condition. Magnolia Lennel, shown in large, well-flowered plants, the large, rich, purple flowers had a telling effect. Wistaria sinensis and its white variety, on tall stems, and other standard trees were well flowered. Spiræa Thunbergi, densely covered with pure white flowers should make a good plant for the florist. Messrs. Cuthbert & Sons, Highgate, had an equally interesting, if not such a showy, exhibit. Some large plants of Amelanchier canadensis, which is also known as Pyrus botryapium, had long branches well covered with pure white flowers. If the flowers would stand, it would be valuable for cut bloom. Though introduced from Canada as far back as 1746, it does not appear to be very well known. Spiræa confusa,

ceras sorbifolia, which came from China in 1870, is in well flowered plants, was conspicuous. Xantho-a grand plant for forcing, as shown. Some good hardy cytisus were also included in the group. Messrs. G. Paul & Son, Cheshunt, in a miscellaneous group, had some fine double lilacs; these improved varieties are valuable additions to our shrubs for early forcing. Clematis are now much in favor for early flowering. H. B. May put up a good collection chiefly of the older sorts. Nellie Moser was included, but this sort does not come so good in color when forced. Miss Bateman and Mrs. Quilter, both white, are the most useful of all. Primula kewensis has been well shown by several exhibitors. This is one of the best things of recent introduction. Eupatorium petiolare, shown by Messrs. Cannell & Sons, Swanley, is a useful subject; large, well flowered plants in very small pots attracted a good deal of attention. Some very fine varieties of lachenallas came from private growers, two of them, Brilliant and Jean Rogers, gained awards of merit. Cinerarias from Messrs. Sutton & Sons, Reading, were good. Quite a distinct type with self-colored flowers, the various shades of pink and the deep blues were most attractive.

MARKET NOTES.—We are promised a considerable extension to the Covent Garden Flower Market. Already some of the adjacent property is vacated, ready for operations. I understand the extension will take the whole corner from the Gardeners' Chronicle office in Wellington street and round a good distance

in Russell street. This will be much more appreciated than the new upstairs hall, which was recently opened for the French and other imported flowers. This, though a most commodious hall, is not appreciated on account of having to go upstairs to it. And, as foreign produce is still allowed to be sold in the ordinary flower market, those upstairs lose most of the best buyers.

POT PLANT TRADE.—Never was the market better supplied than at the present time. Cinerarias continue in favor and have been very fine. Cyclamen have been good. The strain now grown is much better than we had a few years ago. It is chiefly selected from the giganteum varieties. The large flowers stand well above the foliage. We already have mignonette, the plants of which are dwarf, with large heads of bloom. Machel is the only variety now appreciated, and most growers make special selections from the large quantities grown, and save their own seed. And it would be difficult to make much further improvement on what we now see. A little neglect, however, would be disastrous, for there is nothing that degenerates quicker than mignonette. One of our old favorites, Primula sinensis flore pleno, seems to have quite gone out of favor, neither plants nor cut blooms being any longer in demand, the cause being that we are so well supplied with better material. The retarding process has much to do with this and other old favorites going out of demand.

IMPORTATIONS FROM JAPAN.—The lillium bulbs are coming over in the usual good condition this season and in large quantities. It was thought that the war would affect our supplies from Japan, but at present it does not appear to have done so. I find the importers are quoting at about the usual prices, and we are having large quantities offered at the auction rooms. These, while clearing out at fairly good prices, do not go beyond the figures paid in previous years. The Davallia bullata, made up into balls and various designs, are considerably cheaper this season. The balls, well covered with fronds, are offered in the market at 18s. per dozen, and those in a dormant state may be procured at about 50s. to 60s. per 100. Last season prices ran considerably above these for doubtful quality sold in bulk at the auction rooms.

POTATOES.—Growing new varieties for seed purposes has been a profitable venture for many, and there is no doubt that there is still money to be made. Yet there is now a great slump in the market, especially in sorts which created such a sensation and went up to such high prices a year ago. Those who are doing a retail business will do very well with them this season. I find H. J. Jones is doing quite a good trade. It is those who have large stocks and depend upon selling in bulk who find that trade moves slowly. The ordinary crops have been good this season, but even for best quality prices are low on the market, and this is not encouraging for growers to make new ventures. While on the subject of potatoes I would say that it will pay to make the most of the seed of any potato that is really good. I have advocated the practice of propagating from cuttings, but this was condemned by some experts last season. I now find that some who were most against it are inclined to favor it. My contention has been, that to propagate from cuttings taken from the very best samples of tubers, is far more likely to keep up the quality of any variety than is the old system of taking the small tubers from the ordinary crop from year to year; for this must inevitably bring about degeneration. Some years ago, I remember, we grew the old Ash-leaf Kidney for seed purposes only, and each year all the smaller tubers were sold, and we had to use the large ones for our own planting. The consequence was that our seed was always much in demand.



VIEW OF THE SEBASTOPOL BURBANK EXPERIMENT GROUNDS, CAL.



FIELD OF SHASTA DAISY AT LUTHER BURBANK'S, SANTA ROSA, CAL.

SCOTTII

The Most Graceful and Symmetrical Nephrolepis Known;
Unexcelled as a House Plant



Why keep on growing the old Boston Fern when Scottii is admitted by all Judges, Growers and Retailers to be the best commercial Nephrolepis in existence.

Awards Received by Nephrolepis Scottii:

Philadelphia, Pa.	SILVER MEDAL
Newport, R. I.	SILVER MEDAL
Boston	SILVER MEDAL
N. Y. Florists' Club	SILVER MEDAL
S. A. F. St. Louis	SILVER MEDAL
American Institute, N Y.	SILVER MEDAL
New Orleans	GOLD MEDAL
St. Louis	SHAW GOLD MEDAL
World's Fair	GOLD MEDAL

Highest Award at Chicago, Ottawa and Toronto
First Class Certificates and Testimonials from all over the country too numerous to mention

The COMMITTEE OF AWARDS at the St. Louis World's Fair said of NEPHROLEPIS SCOTTII: "A sturdy, Dwarf and compact form of NEPHROLEPIS, very symmetrical and handsome, either in small plants or quite large ones. A great acquisition, with excellent qualities as a house plant. Worthy of Gold Medal."

Read carefully the best report ever given by New York Florists' Club for a new plant.

The committee of award of the club visited the establishment of John Scott, of Flatbush, N. Y., on October 26, for the purpose of inspecting the stock of his new fern, NEPHROLEPIS SCOTTII. Seven members of the committee attended, also the president and vice-president of the club. The initial exhibit of this fern was made at the rooms of the club at the November meeting, 1903. The committee which examined it at that time was so favorably impressed by it that they unhesitatingly awarded it a certificate of merit, and did not ask to see it growing; a request to examine the stock was only recently sent to the club by the exhibitor. The committee made a thorough examination of the stock both in pots and on the bench, and character. It was growing in all sizes from plants in 4-inch pots up to specimen plants in tubs, and it was absolutely uniform, and were highly pleased at its condition form in all grades, the characteristics of the large specimen plants being evident in the smallest specimens on the place. **The most careful scrutiny failed to discover any tendency whatsoever toward reversion, and it seems as if the character of the plant is absolutely and indelibly fixed.** It is in essence a condensed form of the Boston fern, with valuable characteristics added, which are not evident in the parent. Your committee took an average plant in an 8-inch pot and found by actual count that there were 200 fronds in it, not counting the undeveloped and small ones which were in the center of the plant. The fronds of the plant in question averaged about 20 inches in length and three inches in width at the widest point; the pinnae are very closely set, so that they overlap, making a more finished frond than the parent. The plant in question had a spread of three feet. Plants in 4-inch pots showed a spread of 18 inches and a height of 10 to 12 inches. The committee was unanimously of the opinion that it is a most valuable introduction, and that it will become a plant for the florists to grow universally. It has a crispness and hardness about it which is superior to the parent, and which is one of its very valuable characteristics. It propagates very freely, and because of the fact that its character is established in the smallest size, it should find ready sale in all grades. After a thorough examination, your committee unanimously agreed that it was worthy of the highest award by the club and therefore voted that it be awarded the silver medal of the club, and herewith recommend same for your approval.
(Signed) PATRICK O'MARA, JOHN BIRNIE, ALFRED H. LANGFARR, WM. H. SIEBRECHT, CHAS. LENKER, JOHN DOWSETT.

Scottii has received the highest awards whenever exhibited and for the past season has proven itself to be a **hardier house plant** than the Boston. There is no comparison between this fern and any other variety for commercial use.

Consult any grower, or retailer, who has bought Scottii, and they will tell you that it is as far ahead of the Boston as the Boston is ahead of all other introductions

PRICES OF NEPHROLEPIS SCOTTII. All orders filled in rotation

2 1/4 inch, \$2.00 per doz.; \$15.00 per 100; \$125.00 per 1000. 6 inch, \$15.00 per doz.; \$100.00 per 100
25 at 100 rate; 250 at 1000 rate.

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Lor J. Hopetoun, Ben Wells, Globoea Alba, Alice Byron, Lella Filkins, E. Bonnefond, Cecil Cuts, Vivian-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Nellie Pickett, Percy Plumridge, Harry Plumridge, A. J. Balfour, M. Lamond, Thirle, White Bonnafon, Mrs. Chamberlain, Ethelyn, C. H. Diederichs, Dr. Enguehard, Cheltoni, Ida Barwood, S. T. Wright, Chevrant, \$3.00 per 100

Monrovia, Willowbrook, Omega, Opah, Polly Rose, Ol. Pacific, Bonnafon, Mrs. Jerome Jones, Yellow Jones, Col. Appleton, Timothy Eaton, Yellow Eaton, Mrs. Robinson, Lady Harriet, Halliday, F. S. Vellis, Mrs. Coombes, Cinna, Mrs. T. M. Pickett, Marie, Lager, M. Douillet, Paul Sabnt, R. H. Pearson, Dalskov, Ivory, Bocasse, M. Richardson, Tancred Bastett, Fee Du Champssaur, Mrs. Ferrin, Mrs. Weeks, Col. Powell, Mayflower, C. J. Salter, Baden Powell, White Maud Dean, Golden Wedding, Marian Newall, Chadwick, Mounier, \$2.00 per 100.

CARNATIONS

ROOTED CUTTINGS

Lady Bount	100	1000	Harry Penn	100	1000
Ful	\$6.00	\$50.00	Adonis	2.50	20.00
The Belle	6.00	50.00	Lawson	1.50	12.50
Flamingo	6.00	50.00	Prosperity	1.50	12.50
Nelson Fisher	6.00	50.00	Gov. Wolcott	1.50	12.50
Mrs. Patten	6.00	50.00	White Cloud	1.50	12.50
Enchantress	3.00	25.00	Floriana	1.50	12.50
Mauley	3.00	25.00	Joost	1.00	8.00
Boston Mark	2.50	20.00			

FERNS—Boston Ferns, 2 1/2 in., \$4.00 per 100; 3 in., \$6.00; 4 in., \$12.00; 5 in., \$20.00; 6 in., \$40.00; 7 in., \$90.00. We have an especially large quantity of 2 1/2 and 3 in. sizes.

Cash or C. O. D.
W. J. & M. S. VESEY, Fort Wayne, Ind.
Mention the Florists' Exchange when writing.

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Extra fine Fall transplanted stock from cold frame, in bud, \$1.50 per 100; \$12.00 per 1000.
Cash with order.

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HELIOTROPE

2 1/4 in., \$2.00 per 100.
COLEUS, 2 1/4 in., \$2.00 per 100.
ASPARAGUS SPRENGERI, 2 years old, 3 in., \$4.00 per 100.
Cash with order, please.

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Carnations

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CLEAN, HEALTHY STOCK FROM SAND AND SOIL

Enchantress	per 100	1000
Queen	\$ 3.50	\$ 30.00
Lawson	2.50	20.00
Wolcott	2.00	15.00
Queen Louise	2.00	15.00
Genevieve Lord	1.25	10.00
Floriana	1.50	12.50
Flancee	12.00	100.00

Careful packing. Stock guaranteed satisfactory in every way.

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New Carnation CRISIS

THE FINEST SCARLET. LARGE FLOWER. LONG STEM. NEVER FADES. NEVER BURSTS. PERFECTLY HEALTHY. THE BEST SHIPPER. BRINGS THE HIGHEST PRICE. THOROUGHLY TRIED. A MONEY MAKER.

PRICE: \$12.00 per 100; \$100.00 per 1000.
SEND FOR CIRCULAR.

J. L. DILLON, Bloomsburg, Pa.
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American Carnation Society. Carnation Sports.

Prior to the advent of Mrs. Thomas W. Lawson carnation sports were of such rare occurrence that when one did appear it could be named and claimed by the grower with whom it occurred as his origination, or, at least, his exclusive stock. Since Lawson and its descendants have come into existence, all claims to exclusiveness in the ownership of a sport must be laid aside, as it no longer exists. Sufficient evidences of this fact could be cited to fill this edition of The Florists' Exchange, but it is not necessary to go beyond the White Lawson. With how many growers did this appear in one year? Answer this for yourself, and you will have the reply to all of the others. To-day we are having the same thing in Enchantress and Mrs. M. A. Patten.

The three Lawson sports being sold commercially are, through the wisdom of the men introducing them, being sold exactly for what they are: White Lawson, Red Lawson and Variegated Lawson.

There are true pink sports of Lawson and light pink Lawsons and Enchantress sports and Patten sports galore to come, and it is to be hoped that the growers will consult their own interests and avoid confusion by leaving off all special names and selling them for "Pure Pink Lawson" and "Light Pink Lawson," following with a description of their color, etc.

Two of these light pink Lawsons have been registered through an oversight of the writer, and several more are claiming recognition, so that there would be endless confusion in this color alone if they were given independent names by each grower with whom they occur; and on the strength of these facts this society cannot in the future register any sports, excepting under a descriptive and uniform name.

The three Lawson sports being offered commercially, have also been shown at the meetings of this society and at various club shows. This is not only commercial wisdom on the part of the owners, but the only way in which the varieties can be properly disseminated. To show them before this society is the one and only way in which to get them before all of the best carnation growers at one time; next to that, in order to reach a still greater number, the various club shows can be used.

As an illustration if Smith shows his "Light Pink Lawson" at Boston next meeting, and it strikes me as a good thing, I would buy my cuttings from Smith, no matter if Jones, who claimed to have the same thing, but did not show it, would offer it at half the price asked by Smith.

ALBERT M. HERR,
Sec'y American Carnation Society.

Preparing to Plant in the Field.

The time is drawing near when planting in the field will be in order. Bear one thing in mind: If your plants did not do well in the space they were planted in, change to a piece of ground that has never had any carnations in it. It is better not to grow carnation plants in the same place more than three years.

Soil.

If the soil has been piled up for this season's use, turn it over and mix it well some time before using it. And in case it has not enough manure in it to make good soil, work sufficient into it at once, so that when the

benches are ready to be filled it will not be necessary to mix the soil. In this work can be done at an early date, say, this month, it will give the manure a chance to rot well.
Manure intended to be used the whole of next season for mulching should be turned over. Then there will be a more even richness throughout the pile.
CHAS. KNOFF.

Peter Fisher—An Appreciation

I was pleased to see that my old friend, Peter Fisher, is still alive and doing well. He came to me from the Duchess of Athol's gardener in July 1880, and he stayed with me till November, 1882. He was the most persevering and painstaking young man I have ever met in over fifty years' experience. These were the days of flower shows, and I advised him to go into some large place in the country, where he would see vegetables and hardy fruit well grown in abundance. He was sent to Mr. Pease, of Hutton Hall, Yorkshire, where he stayed about two years; he then returned to me, having the wish to go to America, and I persuaded him to do so. He obtained a situation at Mount Auburn, near Boston, where he stayed a few years. He used to write to me to get him seeds of different things, but he was most anxious about amaryllis, carnations and cyclamen, which we had at St. Dunstons. I gave him of my best. He then opened the Mount Vale Nurseries at Boston, U. S., called Fisher Brothers and used to send to me to procure him large quantities of seeds of cyclamen carnation and primula, and several years after he wrote to say he had sold his share in the Mount Vale Nurseries and was opening one at Ellis, near Boston, as a carnation specialist. Two and a half years ago he paid me a visit of some duration and brought his wife and family, Mrs. Fisher having formerly lived in St. John's Wood. He was very careful to carry back with him some of the standard carnations and amaryllis of twenty years ago. Therefore, not only the men, but some of the best seeds have gone to America from London.—RICHARD BUTLER, gardener to Lord Aldenham, St. Dunstons, Regent's Park, in Gardeners' Chronicle.

Carnations!

Clean, Healthy Stock, Well Rooted.
Satisfaction Guaranteed

	RED	Per 100	Per 1000
Crusader	.....	\$5.00	\$45.00
Estelle	.....	2.50	20.00
Flamingo	.....	5.50	45.00
	LIGHT PINK		
Enchantress	.....	3.00	25.00
Mrs. Higginbotham	.....	1.00	9.00
	PINK		
Mrs. Lawson	.....	1.50	12.50
Mrs. Nelson	.....	1.50	12.50
Guardian Angel	.....	1.00	9.00
Mrs. Joost	.....	1.25	10.00
Genevieve Lord	.....	1.25	10.00
	WHITE		
Boston Market	.....	2.50	20.00
Peru	.....	1.00	9.00
White Cloud	.....	1.25	10.00
Queen Louise	.....	1.00	9.00
Flora Hill	.....	1.00	9.00
	VARIEGATED		
Mrs. M. A. Patten	.....	5.50	45.00
	Rooted Rose Cuttings—		
Bridemaid	1.50	12.50
Bride	1.50	12.50
Ivory	1.50	12.50
Golden Gate	1.50	12.50

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10,000 Joost, \$7.50 per 1000. Well rooted, ready, now. These are all side shoots. Cash with order, please.
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The great "bread and butter" holly-berry pink. Early and continuous, sure crop for Christmas, never splits, strong healthy grower. 2 1/4 to 3 in. flower on a long wiry stem that well supports the blooms; an easy doer and an all around money maker. 'Nough said. Price, immediate delivery, 12 for \$1.50; 25 for \$2.50; 50 for \$1.00, all postpaid. \$5.00 per 100; \$60.00 per 1000.
Queen Louise The standard white, strong healthy, well-rooted stock \$1.25 per 100, postpaid; \$10.00 per 1000.
 We Guarantee Satisfaction.
A. B. DAVIS & SON, Carnation Specialists, Purcellville, Va.
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Flamingo, scarlet.....	Per 100	\$6.00
Albatross, white.....	6.00	6.00
Enchantress.....	3.00	3.00
Queen, white.....	8.00	8.00
Boston Market, white.....	3.00	3.00
Queen Louise.....	2.00	2.00
Lawson.....	2.00	2.00
J. H. Manley, scarlet.....	2.00	2.00
Challenger.....	2.00	2.00

Write for prices on large lots. 5 per cent. discount for cash with order.
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WHITE. Queen.....	per 100	1.00
Queen Louise.....	\$2.50	\$20.00
Enchantress.....	2.00	16.00
PINK. Enchantress.....	3.00	25.00
Lawson.....	2.00	15.00
Fair Maid.....	2.00	15.00
CRIMSON. Harlowarden.....	2.50	20.00
VARIEGATED. Judge Hinsdale.....	4.00	16.00
Prosperity.....	2.00	16.00

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	Per 100	Per 1000	Per 100	Per 1000
WHITE LAWSON . . .	\$6.00	\$60.00	HARRY FENN . . .	\$2.00 \$20.00
NELSON FISHER . . .	6.00	60.00	GOETHE, light pink . . .	2.00 20.00
MRS. PATTEN . . .	6.00	60.00	GENEVIEVE LORD . . .	1.50 15.00
ENCHANTRESS . . .	3.50	30.00	MANLEY . . .	3.00 25.00
PROSPERITY . . .	2.50	20.00	MACEO . . .	1.50 15.00
THE BELLE . . .	6.00	60.00	CERVERA . . .	1.50 15.00
LADY BOUNTIFUL . . .	6.00	60.00	LAWSON . . .	2.00 15.00

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THE BEST NOW READY

WHITE Lady Bountiful.....	100	1000	PINK Enchantress.....	1.00	10.00
White Lawson.....	\$6.00	\$50.00	Mrs. Lawson.....	3.00	25.00
SCARLET Crusader.....	5.00	40.00	VARIEGATED AND FANCY Mrs. M. A. Patten.....	6.00	50.00
Cardinal.....	12.00	100.00	Marshall Field.....	3.00	25.00
CRIMSON Harlowarden.....	2.00	15.00	Prosperity.....	2.00	15.00

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PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
 Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

300,000 CARNATIONS

Rooted Cuttings. Clean and Healthy

CRISIS, New Commercial Carnation, \$12.00 per 100; \$100 per 1000

Per 100	Per 1000	Per 100	Per 1000		
Mrs. Patten . . .	\$6.00	Enchantress . . .	\$3.00	Dorothy . . .	
Judge Hinsdale . . .	4.00	Mrs. Lawson . . .	2.00	Wm. Scott . . .	\$1.25
Lady Bountiful . . .	5.00	Adonis . . .	2.50	Queen Louise . . .	per
Flamingo . . .	6.00	Harry Fenn . . .	2.00	Loriana . . .	100
Dorothy Whitney . . .	3.00	Gov. Roosevelt . . .	1.50	Lorna . . .	
Golden Beauty . . .	3.00	Mrs. Potter Palmer . . .	1.25	Eldorado . . .	\$10.00
Buttercup . . .	3.00	The Queen . . .	2.50	Mrs. Joost . . .	per
Prosperity . . .	2.00	Mrs. E. A. Nelson . . .	1.50	Flora Hill . . .	1000
Mrs. J. H. Manley . . .	2.50	White Cloud . . .	1.50	Portia . . .	

CARNATIONS

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PHYLLIS . . .	Per 100	Per 1000	ESTELLE . . .	Per 100	Per 1000
CHICAGO WHITE . . .	12.00	100.00	LAWSON . . .	2.00	15.00
RICHMOND DEB . . .	10.00	75.00	NELSON . . .	1.50	12.50
THE BELLE . . .	5.00	45.00	MORNING GLORY . . .	1.50	12.50
CRUSADER . . .	5.00	45.00	JOOST . . .	1.00	9.00
INDIANAPOLIS . . .	5.00	45.00	HIGINBOTHAM . . .	1.00	9.00
ENCHANTRESS . . .	3.00	25.00	FLORA HILL . . .	1.00	9.00
BOSTON MARKET . . .	2.50	20.00	QUEEN LOUISE . . .	1.00	9.00
ADONIS . . .	2.50	20.00	PERU . . .	1.00	9.00
			G. ANGEL . . .	1.00	9.00

ROSES

Rooted Cuttings

CHATENAY . . .	Per 100	Per 1000	BRIDE . . .	Per 100	Per 1000
UNCLE JOHN . . .	2.50	20.00	IVORY . . .	1.50	12.50
BRIDESMAID . . .	1.50	12.50	PERLE . . .	1.50	12.50

AMERICAN BEAUTY, bench plants, \$6.00 per 100; \$50.00 per 1000.

2 1/2 Pot Plants

RICHMOND . . .	Per 100	Per 1000	CHATENAY . . .	Per 100	Per 1000
ROSALIND ORR . . .	\$30.00	\$250.00	SUNRISE . . .	4.00	30.00
ENGLISH . . .	25.00	200.00	KAISERIN . . .	4.00	30.00
LA DETROIT . . .	6.00	50.00	BRIDESMAID . . .	3.00	25.00
LIBERTY . . .	5.00	45.00	BRIDE . . .	3.00	25.00
PERLE YON GODESBERG . . .	5.00	40.00	IVORY . . .	3.00	25.00
UNCLE JOHN . . .	4.00	35.00	PERLE . . .	3.00	25.00

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.
 Telephone 2846 Central
PETER REINBERG, 51 Wabash Av., Chicago
 Mention the Florists' Exchange when writing.

60,000 CRAFTED ROSES For Forcing

THE FINEST CROWN

Orders booked now for delivery in April, May and June
LIBERTY Rose pots, \$12.00 per 100; 3 1/2 inch pots, \$18.00 per 100
BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN Rose pots, \$10.00 per 100; 3 1/2 pots, \$15.00 per 100
J. L. DILLON Bloomsburg, Pa.
 Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS. FINE HEALTHY STOCK

Ready Now. Orders Booked for Future Delivery

White Lawson (5000 ready now) . . .	100	1000	OWN RGGT. FINE STOCK.
Lady Bountiful . . .	\$7.00	\$60.00	Bride, Bridesmaid, Golden Gate.
Mrs. M. A. Patten . . .	8.00	50.00	Rose pots, \$10.00 per 100; \$38.00 per 1000.
Nelson Fisher . . .	7.00	60.00	
Dahlein . . .	8.00	60.00	VERBENAS
Flamingo . . .	8.00	60.00	Best Mammoth, rooted cuttings.
Enchantress . . .	3.50	30.00	100 1000 \$8.00
Boston Market . . .	2.50	20.00	CHRYSANTHEMUMS
The Queen . . .	2.50	20.00	ROOTED CUTTINGS
Mrs. T. W. Lawson . . .	2.00	18.00	Send for catalogue for varieties and prices.
Gen. Maceo . . .	2.00	15.00	MISCELLANEOUS
Morning Glory . . .	2.00	15.00	Ageratum, Cope's Pet, White Cap.
Mrs. G. M. Bradt . . .	3.00	25.00	100 1000 \$3.00
Melba . . .	1.50	12.00	P. Pauline, S. Gurney, L. Bonnet.
Queen Louise . . .	1.50	12.00	1.00 8.00
White Cloud . . .	1.50	12.00	Canna, dry roots, named varieties.
Adonis . . .	6.00	60.00	2.00 18.00
Alpine Glow . . .	2.00	16.00	Coleus, best bedding and fancy sorts.
Chicago . . .	3.00	30.00	1.00 8.00
Gold Nugget . . .	3.00	25.00	Cuphea . . .
Golden Beauty . . .	3.00	30.00	1.25 10.00
Mrs. Theo. Roosevelt . . .	2.00	15.00	Fuchsia, double and single.
Mrs. E. Joost . . .	1.50	12.00	2.00 15.00
White Bradt . . .	4.00	30.00	Feverfew, double white.

List of other varieties on application.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as detailed.
 Bride, Bridesmaid, Golden Gate, from 2 1/4 inch pots, \$12.00 per 100. Killarney, \$18.00 per 100; Franz Deegen, from 2 1/4 inch pots, \$16.00 per 100.

WOOD BROS., Fishkill, New York
 Mention the Florists' Exchange when writing.

EASTER STOCK

IN
 Easter Lilies, Hydrangeas, Genistas
 Spiraea Gladstone
 Rhododendrons, Lilacs
 PALMS, FERNS and DECORATIVE STOCK

Write To-day for Particulars and Prices

R. DREYER, Woodside, L. I., N. Y.

Mention the Florists' Exchange when writing.

We are still booking orders for own root plants
 OF

THE NEW ROSE

WELLESLEY

We have a very fine lot in 2½-in. pots at \$25.00 per 100

Having decided to increase our planting of "Wellesley" we have several thousand first-class grafted

Bride and Bridesmaid Roses

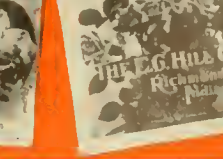
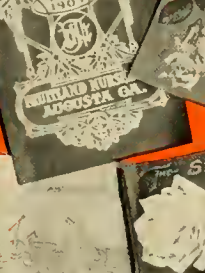
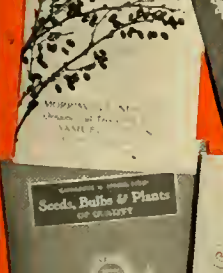
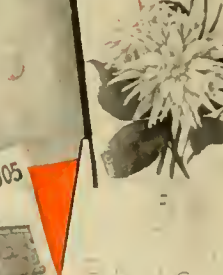
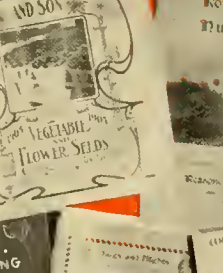
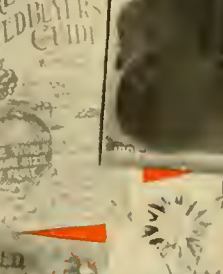
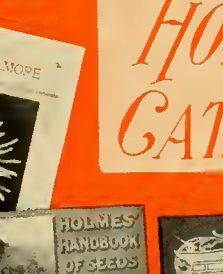
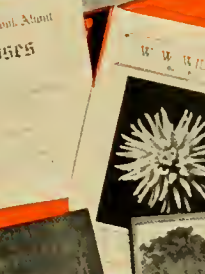
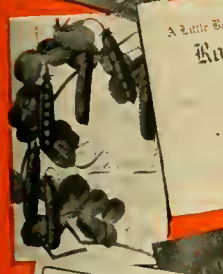
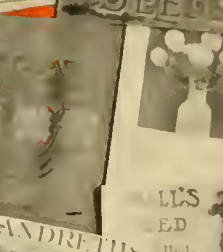
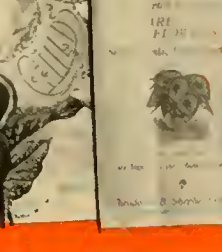
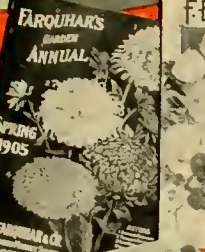
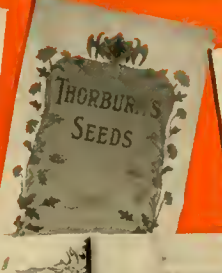
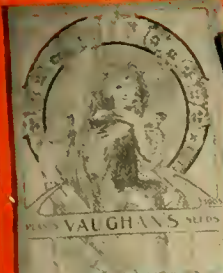
in 2½-in. pots, which we intended for our own use, and which are now offered for sale
 at \$10.00 per 100. 1000 rate on application.

WABAN ROSE CONSERVATORIES, Natick, Mass.

JOHN N. MAY, SUMMIT, N. J.

Mention the Florists' Exchange when writing.

REPRESENTATIVE AMERICAN HORTICULTURAL CATALOGUE COVERS



LIST OF ADVERTISERS

Table listing various florists and their contact information, including names like Akers H R., Allen J K., and various nursery and floral businesses.

Table listing florists and their contact information, including names like Rowell & Grantz, Rupp J F., and various nursery and floral businesses.

INDEX TO STOCK ADVERTISED

Index listing various plant species and their corresponding page numbers, such as Hardy Perennials, Abutilon, and Achillea.

Table listing florists and their contact information, including names like Cycas Leaves, Decorative Greenery, and various nursery and floral businesses.

Contents.

Table of contents listing various articles and their page numbers, including 'A Device for Measuring Blooms' and 'American Rose Society Meeting'.

Table of contents listing various articles and their page numbers, including 'Market, Review of the', 'Montgomery, Alex. (Portrait)', and 'Nursery Department'.

Full of Practical Information. Please find enclosed one dollar for subscription to The Florists' Exchange, which I find very useful and full of practical information.

VAUGHAN & SPERRY Wholesale Florists

All Varieties of Cut Flowers in Season. We are prepared to fill all Easter Orders at prices that are right. Write or telegraph what you want.

HOW DO I DO IT?

My Man in Japan is a Great Help to Me. Three years ago, with the idea of informing our growers in Japan of the kind of Lilies we did not want in this country, we sent in a Warden case by quickest possible transit, growing samples of the two useless kinds of Lilies, the large percentage of which has proven such a NUISANCE IN ALMOST ALL SHIPMENTS FROM JAPAN.

Own Selected Stock of Lilium Multiflorum and Lilium Giganteum.

All orders received and accepted by us prior to May 1st, will be carefully selected, packed and marked for said consignee, and sent direct from the Custom House via our New York office, 17 West Forty-second Street, and if you give your order to me you may rest assured that you will receive as good stock as it is possible to supply. We also feel safe in recommending our selected stock of Lilium Harrisii and Doell for early forcing.

WM. P. CRAIG, Importer-Exporter, PLANTS, BULBS AND SEEDS, 1305 Filbert St., PHILADELPHIA.

FOUNDED IN 1888.



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsmen and the Trade in general

Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY by

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Telephone, 3765 John

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Electrotypes of the illustrations used in this paper can usually be supplied by the publishers. Prices on application.

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The date on the address label indicates when subscription expires.

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Flores, New York.

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One-half inch, 75c.; ¾ inch, \$1.00; 1 inch, \$1.25. Special positions extra. Send for Rate Card, showing discount of 10c., 15c., 25c. or 35c. per inch on continuous advertising. For rates on Wants, etc., see column for Classified Advertisements.

Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's Index will be found on page 393.

News of the Week in Brief.

William Charles Hill, florist, Streator, Ill., is dead at the age of 62.

James W. Newman, a Boston (Mass.) florist, is in financial difficulties.

The store of Thomas Ullam & Co., Pittsburg, Pa., has been closed by the firm's creditors.

A movement is on foot in England to present a testimonial to Henry Eckford, the veteran sweet pea specialist.

The flooding of the Ohio and Susquehanna rivers inundated the cellar of W. C. Beckert, seedsman, Allegheny, Pa., the past week.

The Monmouth County (N. J.) Horticultural Society is encouraging its young gardener members by offering prizes for the best written essays on prescribed subjects.

The final report of the World's Fair Flower Show Association has been issued. A copy appears in this week's issue. A dividend of 20 per cent. has been paid to the guarantors.

Frank H. Beard, a well-known florist of Detroit, Mich., who took a prominent part in the annual shooting contests of the S. A. F. O. H., is dead. He was 43 years of age.

Our esteemed antipodean contemporary, The Australian Gardener, does The Florists' Exchange an exceeding great honor by publishing in one issue five separate articles which have appeared in our columns. This is, indeed, cause for much gratification; but the joy is allowed; not a bit of credit is given us in either case. Shame!

THE JOURNAL OF HORTICULTURE, London, England, has a very interesting special number in its issue of March 9. Among the various articles presented is one by our S. S. Butterfield, on the subject of "Carnation Culture in the United States." S. B. Dicks, well known in the seed trade here, contributes an interesting communication on "The British Seed Trade." A special feature is made of a history of Kew Gardens, illustrated.

WINDOW GLASS. The output of the factories has exceeded the demand for the past six weeks, says the Metal Worker, during the cessation of building operations owing to the extreme cold weather. Prices have also settled a little as a result of these conditions, but the demand is likely to show improvement from this time forward. New York quotations are as follows: First two brackets, single, 90 to 90 and 15 per cent. discount, larger sizes, both single and double strength, 90 to 90 and 10 per cent. discount.

Our Spring Edition.

This, the Sixteenth Annual Spring number to be issued by the publishers, must be judged, as to value of reading contents, by our subscribers; as to the splendid demonstration of the continued confidence shown in The Florists' Exchange as a trade bringer, by our advertisers, we may be allowed to express our gratification and to return our hearty thanks.

The present issue is an excellent exemplification of the business acumen that characterizes the florists, seedsmen, nurserymen and allied trades of America. It is also an eloquent expression of the high standing of these lines in the world of commerce. In forty years giant strides have been made, yet we can safely prophesy that we are but at the entrance gate, and that horticultural pursuits are bound to be classified, before many years, as among the most important of the country's industries.

We would urge all intending buyers, into whose hands this edition shall fall, to give their best consideration to the offerings of the firms herein presented. Trade dealings with each and all of our advertisers will prove entirely satisfactory. They are all alert, wide-awake business men, a fact shown by their wise selection of The Florists' Exchange as an advertising medium.

Representative American Horticultural Catalogue Covers.

Bound into this issue of The Florists' Exchange will be found a sheet containing a photo-engraved reduction of some sixty catalogue covers of the representative seedsmen, nurserymen and florists of this country.

Had time permitted us to execute this presentation in the original colors shown by the originators, our plate would have been doubtless more interesting and instructive; yet, withal, as shown in the one color, relieved and separated one from the other by a distinctive tint ink, these covers as assembled and grouped together will, we believe, afford all interested in catalogues, all students of catalogue making, and catalogue makers themselves, some material for thought, much opportunity for contrast, and possibly some suggestions for lines of future development.

It is not the intention of this article to attempt an analysis of values so far as relates to the distinctiveness of the covers herein shown toward the ends sought to be effected; namely, the interesting of the public and, in some cases, of the trade; neither for obvious reasons shall we attempt a criticism as to the artistic value of the designs and the illustrations shown, the color scheme, nor the wording.

In the many discussions on catalogue making which have appeared in the various advertising agency publications, the writers have exploited the field voluminously; eminent catalogue makers have also given their views and experiences; yet the field is still fertile, and quite likely to remain so.

Catalogue covers, like the human face, should reveal the spirit unseen; that is, should serve as an index as to the character of the contents, and tempt the reader to go further and "inquire within."

Should an illustrated design be representative or emblematic of the business? Judging from the samples before us one is compelled to acknowledge (if the majority rule) that the verdict is overwhelmingly in favor of keeping the illustration within horticultural lines. Accepting this testimony as conclusive, it remains to embellish the subject selected, invoking the aid of the finest reproductive treatment possible; to furnish a setting that will be chaste, rich and harmonious in color, yet free from gaudiness; to select a color and quality of cover paper in full sympathetic tone with the inks to be used, in order that the work may give forth in its fullness the effect sought to be interpreted; so that the completed cover may be eloquent in expression and a first revelation of all the good things stored within its confines.

Unfortunately, perhaps (and perhaps not, for there would then remain no vivid contrast), all catalogue makers are not possessed of the wealth which is required and necessary to put forth these allurements in high art and expensive material, especially when same have to be distributed free gratis; hence, possibly, more from necessity than from choice, we have the two distinctive classes of catalogue covers. The first one, representative of skill, enterprise, liberality, and the command of wealth; the second, of the exercise of skill, enterprise, and liberality, without the wealth, being the output of equally worthy firms and having just as much in the "physical form" to admire or to condemn. As shown on our plate, the contrast is well developed between the two classes. Some of the plainly simple yet artistically arranged covers are made suggestive and forceful through the typographic expression of the wording, and possess dignity and attractiveness through correct manipulation of the three units, type, paper, and ink.

Covers, above all other considerations, should be distinctive; designs should never be duplicated from one year to the next. Artists travel along beaten paths much like other men; to secure originality from year to year calls for the pencil of a new artist, or, at least, suggestions from fresh mentalities.

So far the catalogue and its cover has escaped the fate which sooner or later seems to overtake so many of our industries, namely, that of standardizing; getting down to one size, so many inches long and so many inches wide. Standards are all right in their

place among certain of the manufactures of the country, in weights and measurements, and in many other ways; but deliver us from the pest of standard furniture, standard children, and standard catalogues. While we are spending our thousands in the search for novelties, pro bono publico; let us retain a few hundreds to aid us to secure originality for our catalogue covers. Do not let the size of your competitor's cover govern the size of your own; let it, on the contrary, bear the hall mark of your own originality. When you have adopted your size, stick to it.

We regret that our group lacks many familiar names. When the time came to make our plate we were still short of several covers desired to make the typical representation perfect.

While we are on the subject we reproduce a few paragraphs from an article on "Catalogues and Catalogue Making," written by Mr. J. H. Griffith, for our Spring edition of March, 1895.

The contrast between primitive pamphlets of this sort (the writer had been describing the early productions of Grant Thorburn & Son and Peter Henderson) and the marvelous specimens of the art of printing, engraving and photography issued by the seedsmen and nurserymen of to-day is very great, and it would be interesting to note the processes of the evolution of the beautifully illustrated annual from the double sheet of 80 years ago. Suffice it to say that the catalogue has kept pace with the development of the kindred arts of photography, engraving and printing.

For years catalogues were issued without illustrations; then the crudest form of wood cuts were introduced and used, until E. Bliss and others revolutionized the catalogue and the retail mail seed trade by the introduction of brightly colored and often rather exaggerated chromos of flowers, fruits and vegetables. Fortunately, these glaring, inartistic "pictures" are being superseded by half-tone and good lithographic illustrations.

The catalogues of the nurseryman, florist or seedsman differ essentially from all other forms of catalogues in that they describe not only the articles offered for sale, but the latest or future possibilities of the articles advertised therein. Unlike the average manufacturer or merchant, a horticulturist cannot photograph the article he offers for sale; place the half-tone engravings in a catalogue, and grieve to duplicate it at a given price. An illustration of a packet of seeds, a slip, or newly budded shrub, or tree, would be meaningless, and would not make a customer. It is the perfectly developed vegetable, flower, or fruit, which must be shown. It is this fact that makes the art of illustrating a seedsman's catalogue an exceedingly difficult one.

An ideal catalogue is one that contains a list of seeds, plants, or trees, arranged methodically. The novelties are more conspicuous, if illustrated on tinted paper and placed at the beginning of the book. The illustrations, preferably photo-engravings in half-tone, or colored, should show, as nearly as possible, a perfect specimen of the vegetable, flower, or fruit. If it is a photo engraving, it cannot exaggerate the specimen, which should, of course, be the finest obtainable. Having shown the perfect specimen, the catalogue should tell in plain language, not omitting the minutest detail how the specimen was produced, and how it may be duplicated.

In making a retail catalogue, one important fact must be borne in mind; the average customer forgets from year to year the most commonplace facts regarding the season of planting, and methods of culture. Judiciously assorted collections are always attractive and popular. The average amateur gardener will purchase his ordinary supply of staple varieties, but beyond that is willing and anxious to try the latest and newest.

Mechanically, a catalogue should be printed on good paper, with attractive covers, large type, and prominent headings. Original cuts should be used, as far as possible. It is better to use no cuts at all than to use poor ones.

The future catalogue will be a plain statement of names and prices, illustrated by all the art which can be brought to bear, showing actual possibilities under most favorable conditions.

The work of compilation on the modern catalogue is thorough and exhaustive, calling for vast knowledge of every branch of trade and an intimate acquaintance with a fluctuating market. The arrangements for a thorough supply of the stock to be advertised, the ability called into play to gauge what all his rivals are going to push, and the prices they will charge, marshaling order out of chaos, writing and telegraphing to every corner of the globe, watching the work on the illustrations, and scores of minor details to be regulated call into play faculties of superior order.

Parcels-Post Convention With Belgium.

The Treasury Department, under date of March 8, 1905, has issued the following instructions to collectors and other officers of the customs: "The Department is advised by the Postmaster-General of the conclusion of a parcels-post convention between the United States and Belgium, effective February 1, 1905, the terms of which are similar to those of the convention between the United States and Japan, and the regulations concerning the latter, promulgated in T. D. 25455, July 22, 1904, are hereby made applicable to the convention with Belgium. Customs officers are enjoined to strictly observe the provisions of these conventions relating to value, size and weight of packages exchanged thereunder."

A Device for Measuring Blooms.

KROESCHELL BROTHERS COMPANY, the well known manufacturers of greenhouse boilers, Chicago, Ill., have gotten up a handy device for measuring cut blooms. It consists of a disc, with necessary aperture to admit the flower stem, showing measurements from 1½ to 4 inches. The device is made of the very best waterproof card, and the firm will be pleased to forward a sample to all interested, on receipt of a 2c stamp to cover postage. The address is 55 East Erie Street, Chicago.

THIS WEEK'S SUPPLEMENT.

Zizyphus Vulgaris.

It was with much pleasure we obtained a photograph of this tree, for though not unknown in collections, it is by no means common. There are many priding themselves on possessing a rare collection of trees, who have not this one. There are two reasons for this: but few nurserymen keep it, and many suppose it to be not hardy.

The species *Z. vulgaris* is the one the fruit of which is the jujube of commerce, and in Southern Europe it is eaten in both its fresh and dried state. There are trees in Philadelphia which bear fruit every year. The fruit is like marbles in size, of a dull red color when ripe. But, however the people of Southern Europe may value it, it is not thought worth eating by folks in this country. There is really but "skin and bone" to it, and just enough of fleshy substance to give a taste. Then the hard seed. The taste reminds one of that of the barberry or of the *Cornus Mas*, astringent, though sweet.

The tree photographed is standing on the Capitol grounds, Washington, D. C., and it is not the only one there. It will be noticed that it is in a slightly leaning position. It happens that almost all the trees known to us lean more or less, and, in one case, we know of a large one which has to be held up by props. This comes about by the great weight of the branches and the small number of roots the tree makes, and, further, its roots are nearly always on but one side of the tree and near the surface of the ground. No doubt if when planted some attention were given to pruning the roots and giving them a downward direction, different results would follow.

The leaves of this zizyphus are of a shining green, rendering the tree quite attractive. But its strong spines are by no means attractive; in fact, its branches are such a terror that it is a wonder the tree has never been thought of as a hedge plant in countries where it is abundant.

There are quite a number of species of zizyphus. One of them, *Spina-Christi*, more often called *Paliurus spina-christi*, is supposed by some to be the species from which the crown of thorns was made with which the Saviour was crowned. Another one, the *Z. Jujube* is the one from which the jujube paste of commerce is made.

In the old Bartram Botanic Garden, now Bartram Park, Philadelphia, there is an old tree of the *Z. vulgaris*, planted close to the mansion. What was the old tree is dead, the stump only remaining, but there are younger, live branches which have sprung up from the roots. And this reminds us to say that, besides the propagation of it from seeds, root cuttings afford another means. Sometimes in nurseries when a tree of it is dug up there will, in time, small plants appear from pieces of root left behind.

As an ornamental tree and as a curiosity, *Zizyphus vulgaris* is worthy of a place in all collections.

JOSEPH MEEHAN.

OUR READERS' VIEWS

Freesia Purity.

Editor Florists' Exchange:

I received some blooms of the above from R. Fischer, Great Neck, L. I., N. Y., that were the finest I ever saw—stems two feet in length, with three and four side shoots of eight buds each. The flowers were white, fine and large. I understand this is a creation of Mr. Fischer's, which he intends to put on the market; and no doubt it will be a great acquisition.

Hightstown, N. J. CHAS. BLACK.

Treatment of Carnation Red Sport.

Editor Florists' Exchange:

We have had numerous inquiries from parties who have purchased rooted cuttings of Red Sport (of Maceo) and from others interested in this variety, as to the best method of culture for this carnation to bring it into full crop for Christmas, which we should be pleased to answer through your valued paper.

Fair success can be had with this variety from field-grown plants if housed by July 25, but the plants take good cultivation in the field to make large plants by housing time.

Red Sport is the ideal carnation for all house culture as it makes no superfluous grass, and all through the Summer it makes a strong, healthy, upright growth, and is perfectly free from disease.

Plant on the bench from pots in May or June in a moderately enriched compost, and as soon as the plants begin a good root action, mulch with half inch of leaf mold or well-rotted manure. Keep well stopped back until the 1st of September, by which time the plants will have made 15 to 25 strong leads, that will bloom around the Christmas holidays and during the Winter months. We grow it in a night temperature of 52 degrees. The plants require 36 inches of head room, and can be planted 8 x 10 inches on the bench.

Purcellville, Va. A. B. DAVIS & SON.

The Boston Flower Show.

Editor Florists' Exchange:

At the risk of being considered a bore, will you allow us a few more lines on this subject? We had not intended writing further, but your versatile Boston correspondent will persist in dragging red herrings over the track, and flies off at tangents in a manner peculiar to himself.

We would like to keep him strictly to the subject at issue, but he now dives into ancient history, and in an endeavor to bolster up his case proceeds to make garbled quotations from some of our writings of several years ago. What on earth has a critical review of the work of committees in 1902 to do with that of 1905? We have not hitherto been considering the judging itself, but rather the fact that exhibitors' names were not concealed and that the committee took "an hour or two" to write out their awards. There may have been grievances in 1902, just as there always will be in this and every other society, but it is a curious fact that it took Mr. Duncan a whole year to discover them; or, at least, until he had the courage to express his views on the subject.

Now, no one knows better than your Boston correspondent that exhibitors and the public were excluded from exhibitions all last year, except it may have been a fractional part of the larger shows. Did he not chafe himself because he could not get into some of the Saturday shows earlier? Have you already forgotten these things, Mr. Duncan? If things were so



THE LATE FRANK H. BEARD.

bad last year why had you not the courage to say so earlier?

We much regret the necessity you felt to wander through copies of a defunct horticultural journal. We have not time to grope in the misty past; we are thinking of the future, in which all our hopes are centered. We see Mr. Duncan, with a delightful disregard for facts, persists in speaking of the "medievalisms," "antiquated methods," and so forth, of the committee he seeks to reform. We have asked him to tell us where a "twentieth century, up-to-date" horticultural society is to be found. We have visited quite a number, but all fall away below his ideals.

We still have more than a lurking suspicion that Mr. Duncan is the reverse of serious in his charges, and is merely trying to "jolly" the committee, to use common parlance. Can you not induce him, Mr. Editor, to write you a special article for your next double number on "J. W. Duncan's Idea of the Up-to-date, Twentieth Century Horticultural Society." It will put Job, Timme, Greensmith, etc., away up in a corner and be as startling, horticulturally, as Lawson's "Frenzied Finance" is financially. Adieu! Mr. Editor, no more at present. W. N. CRAIG.

A Growers' Association.

Editor Florists' Exchange:

I gather from "The Gatherer" that some "growers are considering the advisability of starting a growers' association, admitting to membership only those who cultivate and sell plants." I beg to inform those growers that such an organization is already in existence. The New York Market Florists' Association was or-

ganized some years ago, and was incorporated in 1904, exactly on the lines advocated, except that our by-laws read "Plants, Flowers and Nursery Stock," instead of plants alone. Now, I am of the opinion that the right thing for those growers to do is to join the organization already in existence, instead of starting another. More can be done by one large association than by two small ones. Combined effort is what we need, and if all growers would combine and pull together, the marketing of what they produce could be done in a far more satisfactory manner than it is at present. We have tried hard to get the city to build a market, but without result; consequently we are ready now to proceed on our own hook, if we can get the remainder of our stock subscribed for, and some more energetic members to help those already in the harness do the work. I am glad to learn that the need of such an organization is becoming more widely felt, and hope that every grower within a radius of 50 miles of New York will join, put his shoulder to the wheel, and do what he can for his own protection.

JOHN BIRNIE.

[A communication from Mr. Birnie, in reply to Job's remarks on the Scotch bagpipes, is held over till another issue.—Ed.]



Frank H. Beard.

Frank H. Beard, of the firm of Beard Bros., florists, West Fort street, Woodmere, Mich., died at St. Mary's Hospital, Monday, March 13, 1905, following an operation for appendicitis. Deceased was 43 years of age, and is survived by a widow and three children, besides several brothers and sisters.

Mr. Beard had an attack of appendicitis about six weeks ago, from which he recovered. However, on the advice of his physician, he decided to have an operation, and went to the hospital two weeks ago Wednesday. The operation took place next day, and the surgeons found conditions much worse than anticipated, so much so that the patient gradually sank.

The deceased had been a resident of Woodmere since childhood and always took an active interest in the affairs of the village, having been a member of the first council. He served on the School Board for seventeen years, and enjoyed a large circle of friends. He was a member of the First Congregational Church, a charter member of the Detroit Florists' Club, a member of the S. A. F. O. H., at the shooting contests of which he took a prominent part, and a member of the K. O. T. M.

Mr. Beard had a genial, kindly disposition, and was highly esteemed by all who knew him. A special meeting of the Detroit Florists' Club was called, at which resolutions of condolence with the bereaved family were passed. The club sent a beautiful floral piece to the funeral, which was held on Wednesday, March 15, and attended by a large number of sorrowing friends and relatives.

William Charles Hill.

William Charles Hill, florist, Streator, Ill., died Saturday evening March 11, 1905, at his residence on Riverside of cancer of the stomach, from which he had been a sufferer during the past year. He was the son of William D. and Eliza C. Hill, of Putnam county, Illinois, and was born November 16, 1843 at St. Louis, Mo. He served all through the Civil War, enlisting in September 1862, as a private in Company H, 20th Illinois Infantry. He took part in the battle of Thompson's Hill, was at Raymond, Miss., and the siege of Vicksburg, and accompanied Sherman on his famous march to the sea. He was made a corporal near the end of the war. After the war Mr. Hill returned to Putnam county, where in 1868 he married a Miss Emily Tompkins. There were two children by the marriage, both now being dead. From 1870 to 1876 he resided in Kansas and followed the occupation of a farmer. Afterward he went to Streator, and in 1884 entered the florist business. He was a member of the Good Will church and also of the G. A. R.

Jeremiah J. Harrigan.

Jeremiah J. Harrigan died at his home at East Foxboro, Mass., March 17. He had been suffering from cancer for some time, and his end was not altogether unexpected, although it came rather suddenly, and was a shock to his many friends in the locality. Mr. Harrigan moved from Newton to Foxboro about thirty years ago, locating on the farm which has been his home ever since. He was well known as a grower of carnations and violets for the Boston market, the latter flower being one of his specialties for years. The deceased was 68 years of age and is survived by two sons, one in business in Newton, and Daniel S., who for several years past has been manager of Edward Macmulkin's greenhouses at Norfolk Downs, Mass. J. W. D.

American Rose Society

Sixth Annual Meeting and Exhibition

HELD AT

BOSTON, MASS., MARCH 23 TO 26, 1905

(Special Telegram to The Florists' Exchange.)

The sixth annual meeting of the American Rose Society was held in Horticultural Hall, Boston, Mass., on Friday, March 24. President Alexander Montgomery was in the chair. There was a large attendance of interested rosarians, brought to Boston by the magnificent exhibition which was held in conjunction with the Spring show of the Massachusetts Horticultural Society.

President's Address.

We have met again to take note of our progress and do homage to our queen, and, although we have hardly made the progress that the Rose Society is entitled to, considering the vast amount of capital invested in the business and the number of able men who make the cultivation of the rose their life work, yet I think that we are beginning to see light ahead. There have been suggested various reasons to account for the slow progress which this society has made. It has been charged against us that we are not national, in that we have failed to cover the principal cities of the country; but, with patience on the part of our critics and with the co-operation of those to whom this society has a right to look for its support, we will yet visit them all. The few pioneers who have done so much to nurse this society along are entitled to our gratitude for work done, and when the time comes for the Rose Society to start on its peregrinations I think I do not err in saying that it will have the hearty co-operation of those who have stood by it thus far. Distance will not diminish their interest in the flower of flowers, nor in the society which stands for its advancement.

The rose has not lacked for enthusiasts any more than the carnation, but it has missed that incentive to bring rose men together that the carnation men have had, namely, something new. The shows have had but little variety; practically the same few varieties were forthcoming year after year, a little larger or smaller, as we happen to carry them in our minds, or whether they happened to be our own or the other fellow's flowers; but evidence is not wanting that this will all be changed in the near future, and we expect to again hear the cry go forth as it did in '61, but this time, thank God! it is not the soldier, but the enthusiastic rosarian who raises the cry, "On to Richmond!"

The American rose grower has at last awakened to the fact that if a race of roses adapted to his needs is to be forthcoming, it must be done by himself. He has paid in the past thousands of dollars for European varieties that were seldom suited to his requirements, notwithstanding they might be all that the raiser claimed for them when growing under their own conditions. This applies in large measure to roses for outdoor cultivation as well as to those grown under glass. I am inclined to think that the former is the larger field for the hybridist, and with a reasonable amount of encouragement, I predict that the near future will see commendable progress made in a truly American type of roses adapted to the climatic conditions found here. It should be the duty of this society to encourage in every way possible the rose hybridist, as in large measure the future of the Rose Society will depend on him for the stimulating interest created by having something new. The commercial man ought to be alive to the fact that if the rose is to hold the place of honor and profit, he must have something to keep the buying public from becoming tired of seeing only the few familiar old varieties, however meritorious they may be.

A proceeding that I think would be of especial benefit to the introducer and buyer of new roses would be for this society to appoint local committees at the large centers, after the method of the Chrysanthemum Society, to whom flowers could be sent to be judged according to the scale of the American Rose Society. For convenience this could be done at the various



HOUSE OF NEW ROSE WELLESLEY, AT WABAN CONSERVATORIES, NATICK, MASS.

Fall shows, and being judged by the official scale would be of value to all. The same committees could visit the new claimants in their home quarters and report on their Winter qualities. These judges could be appointed by the executive committee, and the chairmen of these committees, or as many of them as were required, could be the judges at the annual show.

Now, a word about the show itself. The schedule needs to be practically rewritten and adapted to the particular section of the country to which the show is to go the following year. A preliminary schedule should be sent out in the Fall, otherwise the growers of pot roses are largely eliminated, and it will be in evidence at the Boston show that this can be made

invitation to take part in these proceedings, and I with their young and progressive ideas they can show us wherein a part of the machinery of this society has worn out, or become obsolete, I promise them that to the best of my ability I will assist them to have it replaced by more modern works. Progress should be the hailing sign of this society, for the only place the American rosarian can afford to sit in is the very prow of the vessel, even at the risk of an occasional wave splashing over him.

M. H. Walsh, Wood's Hole, Mass., read a paper on climbing roses.

Election of Officers.

The following officers were elected for the ensuing year: President, Alex. Montgomery, Natick, Mass. (re-elected); vice-president, Robert Simpson, Clifton, N. J.; treasurer, Harry C. May, Summit, N. J.; secretary, William J. Stewart, Boston, Mass.; executive committee, M. H. Walsh, Wood's Hole, Mass.; A. Farenwald, Roslyn, Pa.; W. N. Craig, Boston.

Boston Next Year Again.

Boston was again chosen as the meeting place for 1906.

The Exhibition.

The show of the American Rose Society is unquestionably the finest ever gotten up by this association. While the exhibition held several years ago in New York brought out a larger lot of some varieties like American Beauty, still never has the collection of fine blooms of other roses been equaled. There is not a large display of pot plants, the collections from W. W. Edgar and M. H. Walsh being very fine nevertheless. Mr. Edgar captured the A. H. Hews prize for best specimen pot-grown rose, and also the Walsh prize for twelve h. p. roses in pots.

The Waban Rose Conservatories were first for fifty American Beauty, capturing the Lord & Burnham trophy. This firm also won the Crowe gold medal for twenty-five Bride and Bridesmaid, the Pierson-Sefton prize for best fifty teas; and their new variety Wellesley carried off the silver cup.

The Dorrance silver cup went to Brant Brothers Utica, N. Y., for display of blooms, to be competed for by growers outside of a radius of 150 miles of Boston. The flowers shown were a fine lot.

John Breitmeyer's Sons, Detroit, captured the Montgomery prize for twenty-five flowers of any American seedling introduced in or since 1901, with La Detroit. The Nugent prize, for twenty-five blooms of a pink rose, not disseminated previous to 1903, was also won by this firm. The Siebrecht & Sons' prize for fifty blooms Killarney was captured by M. Fitzpatrick, New Rochelle, N. Y.

The Floral Exchange, Edgely, Pa., had a fine vase of Queen of Edgely, receiving first prize for same. W. H. Elliott, Brighton, Mass., is an extensive exhibitor capturing several first prizes. John N. May, Summit, N. J., has several exhibits and captured one of the Nugent prizes with General MacArthur. Other prominent exhibitors are: Robert Simpson, Clifton, N. J.; A. Farenwald, Philadelphia; Robert McGorum, John McFarland and the Montrose Greenhouses.

M. H. Walsh was first for the specimen climbing rose with a fine plant of Lady Gay. He also captured all the prizes for the collection of Rambler; and the F. R. Newbold prize.

JOHN W. DUNCAN.

(The balance of the prize list will appear next week.)

PANKOK & SCHUMACHER, of Whitestone, N. Y., have a very generous assortment of stock coming along for Easter. About 3,000 pots of lilies are budded just right for the holiday; and their stocks of azaleas and ericas are also coming in flower nicely. Rambler roses are grown in moderate numbers, and there is also a well-developed batch of the pink and white varieties of Maman Cochet, budding out quite freely.



ALEXANDER MONTGOMERY, PRESIDENT AMERICAN ROSE SOCIETY

both an interesting and educational section of our shows. If possible, a meeting of the executive committee should be held during the convention of the Society of American Florists, otherwise it will be almost impossible to get a majority of them together later in the season, as they are, and should be, men from wide-apart sections of the country who find it difficult to leave their business later on.

In conclusion, I would ask one and all to stay and take part in this meeting, and if they can offer anything for the good of this society it is their duty to do so. To the young men I would extend a pressing

by the illustration, which is a view of the house of this rose as grown at the Waban Conservatories and is a fair representation of its appearance for many weeks past.
J. W. DUNCAN.

Boston Spring Show.

The annual Spring show of the Massachusetts Horticultural Society and the exhibition of the American Rose Society, which opened at Horticultural Hall on Thursday, is in every way in keeping with the high standard of the exhibitions which have recently been held in Boston. The display exceeds that of last year, and a finer lot of plants never were seen at Horticultural Hall before. The main hall is devoted entirely to flowering and foliage plants, and presents a very pretty effect as one looks down from the loggia. On the right of the main hall R. & J. Farquhar & Co. have a very fine display of bulbous and flowering plants, backed with a variety of palms and other foliage plants. On the opposite side of the hall, and immediately under the balcony, the Harvard Botanical Gardens have put up an immense display of foliage and flowering plants. The arrangement is very fine indeed, and shows the artistic ideas of Mr. Cameron. Among these plants very noticeable was the collection of palms, which included such varieties as *Arenga Wrightii*, *Carludovica atrovirens*, *Caryota urens*, *Acanthorhiza aculeata*, *Cocos Romanoffiana*, *flexuosa* and *botryphora*, *Martinezia simplex* and *Chamaedora elegans*. Among plants in bloom were: *Raphiolepis japonica*, *Polygala myrtifolia*, *Vriesea psittacina*, *Caraguata Zahni* and *Geistina angustifolia*. The center of the hall is devoted to cyclamen, cinerarias and such flowering plants. A fine collection of forced shrubs is on exhibition from the Bussey Institute. These include such as *Deutzia gracilis* and *Lemoinei*, *Staphylea colchica*, *Andromeda floribunda* rhododendrons, azaleas, etc.

In the further end of the hall is displayed the magnificent collection of Rambler roses from M. H. Walsh. This includes excellent plants of such fine varieties as *Lady Gay*, *Sweetheart*, *Wedding Bells*, *Hiawatha* and *Arcadia*. F. R. Pierson Company exhibits *Tarrytown* fern. Two fern novelties are *Nephrolepis Barrowsi* from Henry S. Barrows & Sons, *Whitman*, and "*Dorchester*," a fine improvement on the *Foster* variety, from the L. H. Foster Estate. Julius Roehrs exhibits a fine collection of orchids and foliage plants, and Lager & Hurrell also have a fine display of orchids. There is also a fine showing of bulbous plants.

The lecture hall is entirely filled with carnations and cut roses. Of the former R. Witterstaetter, Cincinnati, exhibits *Aristocrat* and *Afterglow*; Guttman & Weber, New York, *Victory*; Weber & Sons, Oakland, My Maryland; and Gladys from the Lake View Gardens, Jamestown, N. Y. J. W. D.

THE MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—At the last meeting of this society the winners of the essays on "Rose Culture Under Glass," written by the assistant gardeners, were announced. First prize was awarded to Charles Wengert, son of the late Adam Wengert, one time gardener at Selmar Hess' estate. Charles Wengert is at present employed at the C. N. Bliss estate,



Rose Mrs R. Sharman-Crawford
Copyright M. H. Walsh, 1905

Oceanic, N. Butterbach, superintendent. Mr. Wengert is the youngest gardener in the society, being only eighteen years old. Joseph Kennedy received the second prize. He served his apprenticeship of four years at C. N. Bliss' place, under Mr. Butterbach, and is at present employed by Wm. Turner, superintendent of M. C. D. Borden's estate. Wm. Dowlen was elected vice-president in place of A. G. Williams, who has resigned. He will take charge of Mr. Bodine's place, Villa Nova, Pa.



Original Plant of M. H. Walsh's Rose Wedding Belle
Copyright M. H. Walsh, 1905

The Wellesley Rose.

That this new rose will prove a favorite of the future there is no question. Its pleasing color and fine form of bud and flower will always find a place for it. During the past Winter it has proved a great favorite with flower buyers of Boston, and has been used several times exclusively for decoration purposes. It is unlike many of the hybrid tea roses, which have the habit of coming in crops only. It is a continuous grower, making good strong growths, as will be seen



Hybrid Wichuraiana Rose, Lady Gay, Winner of First Prize



Climbing Rose, Sweetheart



Climbing Rose, Debutante

SOME OF THE EXHIBITS OF M. H. WALSH, WOOD'S HOLE, MASS., AT AMERICAN ROSE SOCIETY'S SHOW, BOSTON, MASS.

New, and Rare Hardy Plants.

By HERBERT GREENSMITH.

The past two years have not been very productive of many startling novelties in hardy plants. This may seem very strange in view of the reports we have had from time to time from parties both in our own country and in Europe, who have spent much time exploring along the Transcaucasian Railway and returned with such glowing accounts of both the Flora and Sylva of that marvelous country. We have been told that some thousands of species have been collected, and surely something good ought to appear out of this abundance.

Campanulas.

It cannot be said, though, that our hardy plantmen have been idle, for in looking over their lists some are very lengthy. Campanulas, of the persicifolia type, seem to have come in for a very large share of attention, and many varieties have been put on the market; but the only one that seems to have gained favor in the American trade is *C. per. Moerheimi* or *gigantea*, and this is certainly well worthy of any attention bestowed upon it. The only other varieties that I have seen worthy of any extra distinction are *C. persicifolia alba coronata*, with a large wide collar at the base of each bell after the fashion of the cup and saucer varieties of *Campanula Media*; and "Die Fee," a very large blooming sky-blue flowered variety. But from all accounts two very good ones should be added to our list the coming season, viz., *C. persicifolia multiflora*, described as bearing enormous large bell-shaped evenly set panicles of brilliant blue flowers, very closely set on the stems, with the additional advantage of being abundantly clothed with foliage, making it far superior to anything yet introduced in this class of plants either for cut flowers or decorative purposes in the borders; while *C. persicifolia lilacina grandiflora* has large bell-shaped flowers pure white, shaded around the bell with pale blue or lilac, making it exceedingly attractive.

Anemones.

Many and wonderful are the varieties of the Japanese anemones now being offered, but only a few seem to do well in our climate. Lord and Lady Ardilaun were decided improvements both in growth and flower over the type or variety *alba*, so long grown; but these must all give place to the new giant flowered variety *Geante Blanche*. While it is not such a profuse bloomer, the enormous size of the flower more than compensates for this defect, especially where fancy flowers are wanted. It is also a very robust grower, the foliage and stems being much larger, stronger and taller in growth. The substance of the large pure pearly white flowers has also been greatly increased. But where a mass of anemones is wanted for cut flowers *Lady Ardilaun* still leads. The type has always appealed to all lovers of hardy plants on account of its colors and freedom of bloom; but even this must not give place to the new aspirant *Prince Heinrich*, a novelty of sterling merit, which should be grown as a companion to the above in color. I think it decidedly brighter than *japonica* and even more floriferous, and it has longer and better stems—a very desirable feature. While the anemones are not very long-lived as cut flowers, we could ill spare them, for they certainly do fill up a very important and indispensable niche in the Fall months, both as a cut flower and as the most showy of border plants.

Anemone japonica Mont Rose, a semi-dwarf, very large double rose-colored form, is also very good, and where variety is wanted is strongly to be commended, but will not fill the bill so completely as that remarkable semi-double queenly form, *Queen Charlotte*, which is without doubt the most chaste and beautiful anemone grown and will repay for the most lavish care and attention given it.

A Plant for St. Patrick's Day.

One of the earliest flowers to bloom in Spring is *Adonis davurica*, to which I have on several occasions called attention, and which will bear repetition. The double-flowered form is especially fine, both in foliage and flower, and is very showy and cheerful for several weeks in Spring. If grown in frames, this plant would make a fine thing for buttonhole bouquets for St. Patrick's Day.

A Double Alyssum.

Alyssum Saxatile fl. pl., a double-flowered form of this useful Spring flowering plant, with spikes of



ALYSSUM SAXATILE COMPACTUM FL. PL.

Courtesy Henry A. Dreer, Inc.

golden yellow flowers when grown in large clumps, makes one of the most attractive plants for bed or border; it also makes a most attractive pot plant, requiring but little heat to bring it to perfection. As it can only be raised by divisions and cuttings, it will not be overplentiful for some time to come.

Gypsophila Pan. Flore-pleno.

Gypsophila paniculata flore pleno is considered by some to be the best novelty raised in years. I have never yet seen it in flower, but am told by those who have seen it in Europe it is a good thing. The usefulness of the old variety is well known, and if this is pure white, as described, it should be a good thing. Good strong blooming plants should be procured at once and given a fair trial. Being double and producing roots somewhat like the root of a vegetable oyster plant, there is no chance of growing it from division, so the only method of propagation is by layers and cuttings.

Popples.

The Welsh poppy has not found much favor as yet in American gardens, as it is considered a biennial; but if given a favorable location, it does fairly well.

Should the double-flowered form, which is now being introduced, do well, we may hope to see more of them treated as biennials, though, in the near future.

In orientals however, a great advance toward a larger diversity of colors has been made. We have now varieties offered in all shades of color, from the dark flaming scarlet of orientales to the dull brick red of *Papaver pilosum* with intermediate shades of salmon rose blush lilac and flaked colors. In *Papaver n. Mahoney*, we are now offered one of the darkest colored forms of carmine imaginable bordering on to dark mahogany; and from a dried flower seen by the writer this is no myth. Some years ago Mrs. Marsh was sent out as a striking novelty, rich scarlet, with large, irregular blotches of white on each petal running through the flower to the very edge. Plants were ordered from living specimen flowers which turned out, whether from mistake or otherwise, after three years' thorough trial, to be nothing but *bracteatum*. But I am fully convinced, though, that the true thing exists. In this, as in many other things, nature will only respond and reproduce itself in a given way which, I think, must have been trespassed upon, and the plants in question raised from seed instead of cuttings thus accounting for a reversion. Now that stock is becoming more plentiful, there is no reason why we should not have the true thing, which is certainly quite a striking feature in oriental poppies. The variety *Rembrandt* is remarkable for its enormous distinct orange salmon colored flowers.

Meconopsis is well worthy of a place among the hardy plants, especially the variety *Wallichii*.

Dianthus Napoleon III.

I am glad to see an old favorite plant of my boyhood days coming into public favor again. It is over thirty years ago since I first saw it growing in my father's garden, where it had special favors shown it. It seems to have had two serious drawbacks to its culture here; one is, it is apt to be covered with purple spot, but where a vigorous growth is stimulated this is no serious drawback, as it goes right on flowering from June till frost cuts it off in late Fall. It is one of the most bright and cheerful pinks grown, and its only business from Spring to Fall, no matter how frequently it is cut, is to flower, flower, flower. Its second fault lies in its being considered difficult to propagate. Given the proper treatment, it is one of the easiest of the *Dianthus* tribe that I know of. You can take a plant in late Fall and pull it apart, and every pip down to the hardened stem, with care and a cool position, will grow; but it dislikes heat. A cool pit with just the frost excluded till toward Spring, seems to satisfy it. The tops will sometimes turn brown and dead looking, but have patience; when the sun gets up a little higher it will come out all right. Then give it a little warmer position; pot as soon as it shows signs of rooting. I generally put my cuttings in trays of sand with a little coarse material in the bottom of the trays for drainage, as they are then easier to handle and can be better manipulated, any light, airy place suiting them. The plant referred to is *Dianthus Napoleon III*. It is generally known as a mule pink. Here it is now classed with several others raised by your humble scribe under the fascinating caption of "everblooming pinks;" and I think the title well applied for until a few years ago we had only pink in May or June.

A New Helenium.

A short time ago I wrote an article on the sporting proclivities of *helenium*. Now we have a grand acquisition from Europe in the form of *Helenium grandiphthalmum cupreum* with large coppery red flowers nearly two inches across; and I am hoping next year we shall see another very striking addition from the group just hinted at above.

Aquilegias.

Columbines always meet favor, whether in large masses in the border, the few solitary plants in the cottage garden, or as seen growing wild in their native haunts. For some years past search and skill have been greatly taxed to produce extra long spurred varieties. Now we are to have a race of spurless or clematis-flowered sorts. *Aquilegia clematide hybrida* is offered as a spurless variety by the renowned horticultural wizard, Luther Burbank. This same thing was offered in Europe two or three years ago, and is to be had in various shades of color. *Aquilegia ecalcarata*, a species from Japan, and *A. stellata* are also both spurless varieties, and interesting only from a botanical or hybridizer's point of view. I am very anxiously awaiting this Spring to see a batch of columbines named *Aquilegia cerulea hybrida rosea* come into bloom. The raiser says they are especially fine, and if true, will make nice companions for the blue and the white form of this lovely Rocky Mountain species.

Delphiniums.

It is quite interesting to see the immense interest that is just now being taken in delphiniums; and they are worthy of it. New varieties are constantly being offered but all seem to meet the same dreaded foe, fungus, around the collar of the plant near the ground, to which they succumb. I consider the best way to raise delphiniums is to buy a liberal amount of seed from the best growers, sow early and cull out close for a year or two, saving your own seed from the best varieties, and thus raising them annually by this method a very fine collection can be got together in a few years. With but one exception, they all produce seed very freely; that exception, I believe, is one of the most lovely delphiniums that grows, and must be raised from cuttings and divisions. *Delphinium Belladonna* will produce more flowers than any other variety I know of. It produces no seed.



CLEMATIS MONTANA GRANDIFLORA.

Courtesy Henry A. Dreer, Inc.



GYPSOPHILA PANICULTATA FL. PL.

Courtesy Henry A. Dreer, Inc.

Heliopsis.

Heliopsis Pitcheniana semiplenus seems to be a good thing spoiled. While it is of a semiplena nature, there are hardly enough florets in it to make it attractive or more useful than the original.

Asters.

New varieties of hardy asters are constantly appearing, and are being brought more into public favor; but with the possible exception of the rose-colored forms, many of our native ones are just as brilliant and as effective as the newer foreign varieties. Of course, there are some very lovely unique forms, such as Thomsoni from the Himalayan Mountains, a perfect gem, and one that should be found in every collection, and A. Trinevis from China, an exceedingly late flower, coming into bloom later than our magnificent A. grandiflorus. A few others find deserved favor. One comes to us this Spring from Germany with the captious title of "Blutenregen," which interpreted means "rain of blossoms," of which we may hear later.

Miscellaneous Novelties.

Some four years ago I selected a dwarf form of Boltonia latiscuama out from among a collection, and it was a grand thing, too. A few plants got transferred to Long Island, but both lots seem to have perished. Now I see it has again been resurrected in New Jersey and put on the market; and for those who object to the tall form, here is its counterpart in every way, but with only half the height.

There are many other interesting rare and recent introductions that are well worth a trial. Clematis montana grandiflora is an exceptionally good and scarce thing as yet, which seems to get lost sight of, coming into flower as it does during our rush and bustle of Spring work. It is an exceedingly strong, healthy grower, as tough and as hardy as Clematis virginiana and seems to stand as much abuse. Its flowers are exceedingly large, nearly 2 inches across, pure white, and almost cover the plant. And for a curiosity, C. flammula rubra marginata should be grown; the purple-edged crimson flowers make it quite unique and showy.

Tritomas are again to the front in several new varieties, but for freedom of bloom and intensity of color T. Pfitzeri is not yet surpassed. May Queen (Saundersi) is said to bloom earlier; but this has yet to be proved here. I believe several other interesting things may be found by reference to the various catalogues, of which I have heard, but not yet seen. A trial of all is necessary to prove their merits.

Use Hardy Flowers.

By WILLIAM FALCONER.

The florists who do jobbing gardening and have a local general trade will, I believe, profit by a free use of hardy plants in their garden work. But don't get the esthetic craze except in big jobs. You know that hardy perennials, like annuals, are very beautiful in their season, and not infrequently very ugly when done blooming; and if you are dealing with people who don't know a hollyhock from a China aster, be very particular to give them something that is sure to grow and is quite hardy and showy when in bloom. Talk is all right as long as you are speaking, but seeing is the only thing that appeals to many of us. We don't know names and can't be bothered remembering them; all we want is flowers—plants that will grow and bloom and look pretty themselves without any care or trouble on our part. And that's why we plant geraniums and cannas—they last the whole Summer long, and when the frost kills them in October, the garden season is over and Winter is upon us, so then what does it matter anyway? This is the way many amateurs argue.

Now what shall we do about it?

Plant pansies, daisies and forget-me-nots in Spring, and tell the folks that these must be replaced with geraniums or cannas, or a bed of tea roses later on.

Never forget the roses; everybody is crazy on roses. While we can't get much show out of newly-planted H. P. roses the first year, we can plant teas, hybrid teas, noisettes, and other novelties, and get a fine crop of flowers in late Summer and till frost; and while the roses are young, if we plant verbenas or sweet alyssum in the bed, these will cover the ground, and it will never look bare or bleak.

Now, for other parts of the garden, say in the mixed border, in their shrubby beds, or elsewhere available, have a succession of neat, pretty and showy perennials. For an edging, or carpet, or mass, use moss pinks, hardy pinks, creeping speedwell, and dwarf iris. Be sure to have a few clumps of big peonias, some long-spurred yellow and the Colorado blue columbines, a lot of single pyrethrum, German irises, and to succeed them, the big 6-petaled Japanese Kämpfer's irises, bleeding heart, coreopsis, gaillardia, the dwarf sunflowers, herbaceous spiræas, and the like; and for later blooming the pink Sedum spectabile, tritomas and Japanese anemones. The tritomas may not be quite hardy, but they can be lifted with balls of earth to them in November and saved in a cool cellar until next April, when they again should be planted out.

Really we don't use enough of these fiery poker plants. They bloom from Midsummer until hard frost, and they are mighty striking in the garden. Plant them in clumps or masses to have good effect.

And they are so bold, profuse and lasting! Try them.

And don't forget some vines. Clematis paniculata and Hall's honeysuckle never fail to please. And the Crimson Rambler rose makes a fine vine effect if you tie it up. Did you ever try the Rambler as a carpet plant? Instead of letting its long branches, or wands, arise and bend over in arches, peg them down flat on the ground, and see the effect. There was a bed like this at the St. Louis Fair last year that caught my eye, and now I am doing the same thing myself.

Then some shrubs. Use a few choice sorts rather than a wide selection. Forsythia Fortunei, Deutzia gracilis, Spiræa Van Houttei, and Spiræa Reevesii. Rosa rugosa, Azalea mollis, Japanese snowball (V. plicatum), Syringa villosa, Weigela rosea and Eva Rathke, single pure white althea and Hydrangea paniculata grandiflora are a few common but good hardy shrubs. Yes, yes, there are oceans more, you'll get them in the catalogues, and they are good, too. I have mentioned a very few.

That picture of the lovely Azalea amena at Doris (p. 326, issue of March 18) is enough to make your mouth water. But a hedge like that takes time; it is over 20 years old. The mollis azalea is hardier and stronger in growth. "Refined" folks get enthused over the "single" Japan snowball (V. tomentosum) and the "single" form of Hydrangea paniculata; but if you are dealing with the plain people who don't know much about flowers, you'd better give them the old-fashioned "double" forms; if you don't, the chances are they'll declare you swindled them. Rosa rugosa is used as a shrub and not as a "rose." In getting the red blooming one, why don't you plant the variety Agnes Emily Carman? It is vastly brighter than the typical red.

Packing Herbaceous Plants.

The art of packing herbaceous plants, so that they may be shipped several days' journey and arrive in good condition, can only be acquired by practice. No set rules can be laid down to insure success owing to the varying degrees of moisture, temperature and the condition and kinds of plants themselves. At the same time, there are general rules governing the operation that may be reduced to writing, which are likely to be of service to those having occasion to ship this class of plants.

One of the first essentials is to see that all the plants are carefully labeled. However well known the plants are to the shipper and apparently unnecessary the label may appear, they are liable to be unpacked by some one that knows absolutely nothing about them, and who depends entirely on the label.

In very early Spring, before the plants have made any growth to speak of, the operation is comparatively easy, as there is little danger of the plants heating in transit even if of considerable bulk. At this stage, pack as dry as possible. If the plants are wet when dug, a liberal use of dry sphagnum moss will absorb the superfluous moisture. In most cases it is advisable to wrap each plant separately, especially if they are from pots or plants that are likely to fall apart. In the case of peonies and plants with good strong roots or clumps, it is not necessary. Where an assortment is being shipped, tie the different kinds in bundles, with the label on the outside, which will enable the recipient of the shipment to see just what he has got without undoing each bundle, making it much easier to plant and avoiding the accompanying danger of long exposure while waiting to be planted.

After the different bundles and plants have been wrapped firmly with a liberal use of sphagnum, they should be packed firmly in the box, so that they will not shift around during the rough usage they are likely to meet with. It is never advisable to use too large a case. Two or three small ones are to be preferred to a large one, so as to avoid too large a bulk. Old newspapers, while not very attractive looking, are about the most serviceable, as they stand the moisture much better than straw paper.

As the season advances and the plants are making their growth, packing becomes more difficult, as a certain amount of air and moisture is necessary to keep the plants in good condition. For limited quantities to be shipped short journeys, shallow open boxes and baskets are the best. The plants should have moist sphagnum moss at the roots, and be wrapped in paper and then stood upright. Shipped in this manner the plants can hardly fail to arrive in good condition. For large quantities this method would be too expensive. The same principle, however, may be followed; and after the plants are wrapped and tied in bundles, with the tops sticking out, they may be packed in rather shallower boxes than what would be used had the plants not started into growth. By laying the bundles all one way, in a reclining position, they can be packed firmly enough to prevent shifting about, yet at the same time so as to allow a little air to get in to prevent heating or decay. Fill any vacant places with imperial shavings, or like material; and nail slats on the box in place of a tight cover, just close enough together to prevent any of the bundles falling out.

When the plants are properly wrapped and packed in a tight box, there is practically no evaporation, so that there is considerably less danger of them suffering for want of moisture than with too much of it. The rule should be to pack on the dry side. In open crates and baskets, especially as the season advances, the rule should be reversed, and provision made to keep the roots moist, as the packages are liable to stand in the sun and dry winds before they reach their destination.

ERNEST HEMMING.

AMONG THE GROWERS.

Anton Schultheis, College Point, N. Y.

This well-known grower has a nice collection of Easter stock, of which he feels justly proud. He has a novelty in the new German wallflower that will undoubtedly prove a most profitable one. The plants are in 6-inch and 7-inch pots, and carry numerous flower stems, covered with large velvety crimson blossoms, and emitting the delightful fragrance of the wallflower, the deliciousness of which the odor of no other flower can equal. This strain of wallflower is a great improvement over the type, and must be seen to be appreciated. The size of the individual flowers is more than double that of the older form, and the colors, which run in scarlets and crimsons, are particularly rich and brilliant. In addition, the plants are free and abundant in flowering, and will make one of the most desirable Easter subjects it is possible to get. Another comparatively new plant is the Hydrangea azurea. A few of these blue hydrangeas were put on the market last year and they were a pronounced success. Mr. Schultheis has a house of them this year, and they will be in just right for Easter. They vary in size from plants with two or three flower heads to those carrying twelve to fifteen, and are in the pink of condition. There is also a grand stock of Hydrangea otaksa, and of the pink variety, H. rosea. We never saw the roses at this place better than they are this season. Crimson Rambler and Dorothy Perkins are both grown in quantity, some to bush form, some as standards, others trained to form basket shapes and again others to pyramids, wreaths, etc. All are budded to perfection, with not a sign of fly or mildew on the lot. The variety Dorothy Perkins proved such a great favorite last year that it is now being grown in much larger quantities. The manner in which it has budded and made such magnificent plants, leaves no room to doubt its excellent qualities as a forcing rose; and for Easter purposes it is no doubt destined to become as great a favorite as the Crimson Rambler, if not more so, on account of its beautiful pink colored flowers.

Several houses are filled with lilies and they will be in prime condition for Easter. Hyacinths, tulips, lily of the valley, and narcissus are grown in pansy by the thousands, and among them are all the choicest varieties obtainable.

The stock of azaleas occupies five or six houses; they are timed to be just right for Easter, and embrace all the commercial sizes. Genistas, camellias, and bougainvilleas help make up a varied collection of flowering plants that would be hard to beat anywhere, while the stock of ericas, among which the white, pink, and yellow are all represented, is in the best possible condition.

John Scott, Keap St., Brooklyn, and Flatbush, N. Y.

At the Flatbush establishment of Mr. Scott, lilies are again a central figure, as they were last Easter. The larger-sized bulbs only are grown, and the wisdom of selecting this grade for forcing purposes is plainly evidenced by the unusual large average of buds per bulb showing at this time. These 9-10 sized bulbs cost no more to grow than the 5-7 bulbs; they take up no more room on the greenhouse bench, and yet the number of flowers they will produce is at least twice as many as can be grown from the smaller bulbs. Mr. Scott has about 10,000 pots of lilies coming along, and they are timed just right for Easter.

Nephrolepis Scottii has met with a grand reception since being introduced to the trade, and the stock of large and medium sized plants that filled the whole Flatbush establishment but a short time ago is so depleted that it is now contained in one house. There will be no dearth of stock of this fern for some time to come, however, for, with the exception of two houses, the whole of the Keap street establishment is devoted to N. Scottii, and the demand keeps pace with the supply. Ground has been broken, and three new greenhouses will be erected immediately on the Flatbush property. Mr. Scott is also negotiating for the purchase of a 3-story house, which is within a few hundred feet of the greenhouses, and expects to take up his residence there in the very near future.

The Hinode Florist Co., Whitestone, N. Y.

This Japanese firm has several well-equipped greenhouses, and is bringing in for Easter a stock of lilies, hydrangeas and roses. The lilies are nice, thrifty stock, and they will be a good crop for the festival. The hydrangeas are budded nicely, as also are the roses. Many of the latter are big specimen plants, and are in the two-handled boxes so often seen in connection with large-sized plants cultivated by Japanese gardeners. These boxes are certainly easier to handle than are pots of the size necessary to carry large plants, and it would seem that the adoption of such boxes by other growers would be a step forward in greenhouse management.

The Los Angeles Examiner says: "It is estimated that the Japanese have more than \$1,000,000 invested in market flower gardens in Alameda County alone. On this side of the bay they are extensive growers in the neighborhood of Colma."

CLUB AND SOCIETY DOINGS

THE NEWPORT (R. I.) HORTICULTURAL SOCIETY held its meeting for March last Wednesday evening, with President Sullivan in the chair, and some thirty members present, the largest turnout for a very long time. Every member present evinced the greatest interest in the discussion of the schedule of prizes for the coming year. Eight names were proposed for active membership. William Neil Campbell was a visitor. At the hour for home going the looking over of the prize schedule was not completed, so the meeting adjourned until Wednesday evening, April 5. F. W.

TRI-CITY (IA.) FLORISTS' ASSOCIATION held a meeting March 16, 1905, at the Bills greenhouse, and elected officers for the ensuing year as follows: President, J. T. Temple, Davenport; vice-presidents, Henry Pauli, Davenport; John Staack, Moline, and Henry Gaethje, Jr., Rock Island; recording secretary, Henry Meyer, Rock Island; financial secretary, Theo. Ewoldt, Davenport; treasurer, Rudolph Arp, Davenport; executive committee: Harry Bills, Davenport; William Kneese, Moline, and Henry Gaethje, Sr., Rock Island. The association is arranging for a picnic to be held some time in August and a committee will be appointed to take the matter in charge. An interesting paper was read by Wm. Kneese on the poinsettia.

THE GRAND RAPIDS (MICH.) FLORISTS' CLUB held a meeting Friday night, March 17, at the Board of Trade rooms. An attempt is making to get up a chrysanthemum show for next Fall, but it fails to receive the hearty support necessary to make such an undertaking a proper success, and may be abandoned. In its place may be substituted an exhibit of chrysanthemums and other seasonable stock in the Board of Trade rooms, the public to be invited to have a look at the flowers. It is thought such an exhibition might prove beneficial in a general way, as each could put up anything he might have suitable to show.

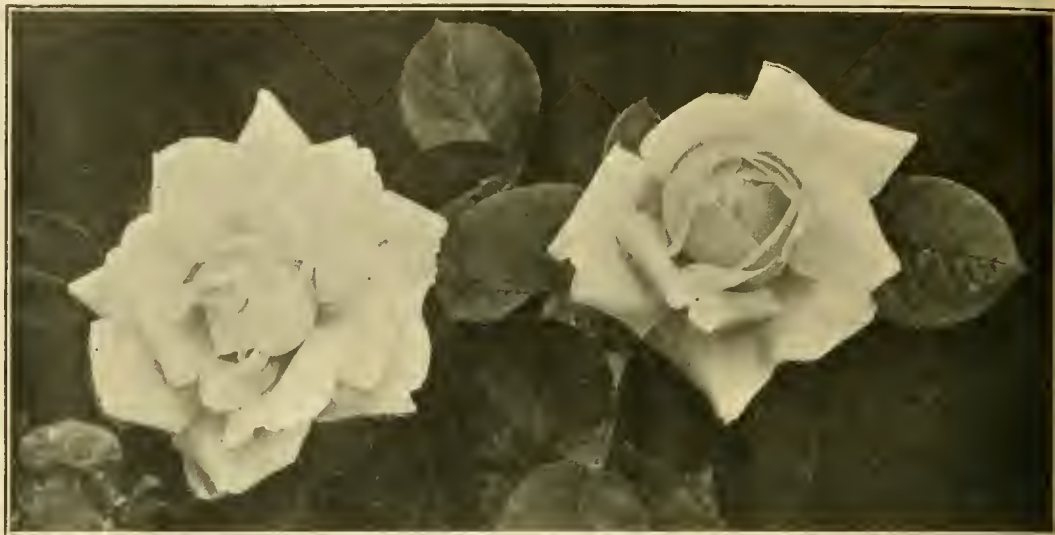
An attempt is also making to regulate the prices of bedding stock. It is thought, for instance, that geraniums should bring \$1.25 per dozen and other plants a proportionate price. Some difficulty is being experienced in getting all to sign such a price list, as lack of faith in some, jealousies in others, and a desire in still others to be free to cut prices when necessary to get a job, makes certain ones reluctant to sign away their rights. However, an effort is being made to get the conflicting elements together and arrive at some satisfactory understanding agreeable to a majority, if not all. The greatest obstacle to such an agreement is, the peddlers, both with push carts and wagons, during the season, and they always cut on



ROSE KILLARNEY

As Grown by M. H. Walsh, Wood's Hole, Mass.

Copyright, M. H. Walsh, 1905



ROSE FRAU KARL DRUSCHKI

Grower, M. H. Walsh, Wood's Hole, Mass.

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price. Again, one may have plants in 4-inch pots, listed at \$1.25 per dozen and worth the money; while his neighbor has the same size pots but smaller, poorer plants, for which he cannot get the listed price. A list to meet all contingencies is hard to formulate. G. F. C.

BUFFALO FLORISTS' CLUB.—At the formal business meeting held in Kasting's Saturn Hall, on Elliott street, on Tuesday evening, March 21, the following candidates for election to serve for the coming year duly won out: Louis H. Neubeck, president; Chas. T. Guenther, vice-president; Chas. H. Peake, general secretary; Emil Bruecher, financial and membership secretary; Chas. H. Keitsch, treasurer. Executive committee: Wm. Scott, Wm. F. Kasting, Geo. Urban, Jr. Adjournment was made to an upper hall in the building, where the endeavors of Kasting, Keitsch and Bruecher, the special banquet committee, showed a well-laden table of ample size, lavishly bedecked with American Beauty and Bridesmaid roses and Prosperity carnations. Over thirty craftsmen surrounded the board. Mr. Kasting announced Wm. Scott as toastmaster. Mr. Scott entertained in his "illimitable" style as introductory to the toast list. The newly elected president, Louis H. Neubeck, accepted his trust in a spirit denoting an intent at progressiveness in club interests during the next year. Geo. Urban, Jr., our local active amateur, whose name in our membership we are more than proud of, rehearsed his versions of the extravagances going with the amateur in a vein highly amusing. He extended an invitation to the club to meet at his country place at Pine Ridge. C. H. Roney, Jamestown, N. Y., manager of the Lake View Rose Gardens, who carries the responsibility of eight acres of glass on his shoulders, talked on kindred topics only as a well-versed man can. Daniel B. Long appealed to a development of a higher trend among the craft in general, but most particularly in working methods and practices. Mr. Holmes, Chester Harris and W. W. Wells, all newcomers to this town, behaved admirably along speechmaking lines. Wm. F. Kasting, in his hearty style, felicitated the members on what the club has accomplished, and exhorted to further efforts. Chas. H. Keitsch was in humorous fettle, and gave his hearers plenty to laugh about. The affair lasted till somewhat after midnight. Dignity and decorum betokened a commingling of spirits in good accomplishment and boding much good to follow this annual affair. VIDI.

BOSTON GARDENERS AND FLORISTS' CLUB.—About thirty members attended the outing at the establishment of W. W. Rawson at Arlington on Saturday afternoon. It was the first Spring-like day of the season, and although under foot was rather damp in many places, it was a fine outing and was much enjoyed by all. The place contains many acres, some thirty-six large houses, mostly filled with such vegetables as lettuce, radishes and cucumbers. One range of houses is devoted to the florist end of the business, and many thousands of seedling plants and cuttings were examined as they are grown for the Spring trade. In addition to these houses Mr. Rawson conducts a general retail store trade, and the whole plant shows the push and enterprise of one of the pioneer vegetable growers for the Boston market.

The regular monthly meeting of the club was held Tuesday evening, with Vice-President M. A. Patten in the chair. President Wheeler was unavoidably detained at home on account of sickness in his family. Notwithstanding a small blizzard was raging during the evening, there was an attendance of about sixty, many of the members coming from quite a dis-

tance out of the city. There was only one exhibit on the tables, the boisterous weather being against the bringing in of plants or flowers. This exhibit was a vase of mignonette from Patten & Co., Tewksbury, the variety being Fottler's Eclipse; and while it was not as large as some of the spikes we have seen, yet it possessed a fragrance and delicate finish which would always commend it. Several new members were elected, and as this is now a looked-for occurrence, there is no question but that the club is full of life and vigor.

The committee on awards reported on the certificate question, which has had an airing at every meeting recently; but as they had yet reached no final decision they were granted another month, when it is to be hoped the matter will be brought up for final arguments and settled.



NEW FERN DORCHESTER

Originators, L. H. Foster Estate, Dorchester, Mass.

Exhibited at Boston Show

The speaker of the evening was Wm. H. Elliott, of Brighton, who talked on his recent visit to the islands of Cuba, Porto Rico and Jamaica. He was listened to very attentively while he described the many different features and the luxuriant vegetation for which some of these islands are famous. The meeting broke up at a late hour, every one present having enjoyed the off-hand talk of Mr. Elliott, which was quite a departure from the more technical papers which are generally brought before the club.

J. W. DUNCAN.

LENOX (MASS.) HORTICULTURAL SOCIETY held its regular meeting on March 18, 1905, President R. A. Schmid in the chair. The members were addressed by W. H. Wyman, of North Arlington, Mass. His topic was "Landscape Art and Architecture in General," which was very interesting, and led to a great deal of discussion. CHAS. O. DUNCAN, Asst. Sec'y.

Review of the Market

NEW YORK.—The market does not present that overstocked condition so apparent a week ago; but this is more due to the decrease in the supply of Dutch bulbous stock than to any other cause. We have been having some nice Spring weather, and the street flower dealers are again working full time—a feature which is always good for the wholesale business.

American Beauty roses are becoming more plentiful, and prices still have a downward tendency, much to the disadvantage of the fine shipments of Ulrich Brunner reaching this market every day. Special Bride and Bridesmaid are keeping up fairly well, chiefly owing to their limited numbers; but the lower grades are in a most unsatisfactory condition, so far as any fixed prices go. Violets are clearing out much steadier than they were, though the prices received have not varied materially from those quoted a week ago.

The preponderance of fancy grades among the carnations is making it very difficult to dispose of ordinary stock at any figure. Perhaps this feature would not be noticeable in good business times, yet it would seem there is no room any more for the smaller or weak-stemmed carnations, and their culture will hardly prove profitable much longer.

Tulips are not nearly so plentiful, and are realizing better values. The same is also true of the various kinds of narcissus. Sweet peas are not selling so well; neither is lilac nor lily of the valley. Lilies are not so much in evidence as they were a week ago, and prices will average slightly better. Easter quotations for lilies are already in the air—10c. for cut blooms, and 12c. for plants in pots. How firmly these figures will hold, one cannot tell at this time. Mignonette is a slow seller, and the market is well supplied at all times. There has evidently been too much of this stock grown this Winter. Smilax continues in good demand; and other green material fairly so, with prices unchanged.

CHICAGO.—Inclement weather has militated against business the past week, causing considerable fluctuation in prices, and trouble in disposing of stock. On St. Patrick's Day there was a heavy call for flowers in almost all lines, green carnations, however, being the leaders; nearly every house had some of these on hand, and they brought more than twice the ordinary values. In the plant line, genuine shamrock proved a good seller; most of these plants were put up in green pots. Tulips in an undeveloped stage were also called for, but few of them were available. All seem to agree that St. Patrick's Day is becoming a good one for the trade.

American Beauty are now in ample supply, the demand for first grade stock not being as heavy as usual. Medium and short grade flowers are moving freely. Bride and Bridesmaid are too plentiful, and large quantities go at very low prices considering the quality. There does not seem to be the call for Golden Gate that once existed for this popular rose, consequently prices have declined considerably, unless for extra fancy stock in small quantities. Liberty is in greater supply than for some time.

Carnations are being received in large numbers, and have been moving slowly the past few days. Local demand has not been particularly active, consequently prices have dropped somewhat.

Lilies are becoming more numerous, with a fair demand, at from \$6 to \$12. Callas are in abundance, and, in many cases, of poor quality. Violets are very plentiful, and the weather has affected the sales of these. Sweet peas are coming in more freely, and selling well. Daisies are also seen in quantities. Smilax is more plentiful than for some time, at from \$3 to \$12 per 100. R. J.

BOSTON.—There still continues a drop in prices of all kinds of cut flowers; and the supply is fast increasing. Peas, which only a few weeks ago were very scarce, are now very plentiful; in fact, so much so, that some days they are very druggery. American Beauty, which have been scarce since Christmas, are now abundant and of splendid quality. Some very fine long-stemmed blooms are seen. They have dropped in price, however; the best grades fetching anywhere from \$20 to \$35 per 100. Queen of Edgely is getting more popular; some extra fine blooms are seen this week. Killarney is another variety which is gaining in favor. Bride and Bridesmaid are very plentiful; are a drug, in fact, and can be bought at from \$1 to \$3 per 100.

Carnations have been rather steady; no variations in prices to speak of; the quality is of the best. Bulbous stock of all kinds is plentiful, but prices of the better grades have been firm. Lily of the valley remains without change. Violets are very abundant, more so than at any time before this season. While they can be bought at almost any price, \$30 for \$1 is about the figure for the best grades. J. W. D.

ST. LOUIS.—It's an old saying that everybody has his day, but St. Patrick had three of them—Friday, Saturday, and Sunday—which were quite busy ones for the florists, especially in disposing of green carnations, which sold like hot cakes. The trade had great help from the daily papers, which spoke about the new green carnation that could be had at all the florists' stores for St. Patrick's Day. Sales of these flowers began Friday, and Sunday, during the parade, everybody was decorated with a carnation of patriotic Irish color. Trade during the week just past is generally reported as dull; even funeral work was not any too plentiful. Stock piled up at the wholesale houses, and fancy flowers of all kinds have sold very cheap. Never before at this season was there such a glut in violets and colored carnations. Roses, too, were very plentiful. Bride, Ivory and Kaiserin Augusta Victoria were the only ones in demand; colored stock in nearly all varieties went begging. Extra fancy grades are selling at 6c., and down as low as 1c. for bulbs. American Beauty are also going slow at \$3 and \$4 per dozen for fancy long. Medium stems and shorts are in plenty at from \$1.50 to 60c. per dozen.

Carnations were slaughtered in price, in big lots, going as low as \$8 per 1000 for the colored sorts. White held their own at \$1.50 to \$3 per 100. Extra fancy Enchantress and Mrs. T. W. Lawson brought \$3 per 100. Harrisii lilies and callas are in great abundance. Other bulbous stock is not overplentiful except tulips and lily of the valley.

Smilax sells well at \$12.50 per 100 strings. Common ferns are becoming scarce, and the price has been raised to \$2 per 1,000.

At this writing, Tuesday, prices are somewhat better, and supplies not quite so heavy; still more than the trade can use. Prospects from now on until Easter, for better business, are not very bright. ST. PATRICK.

INDIANAPOLIS.—The heavy trade of last week has not continued. As a result, stock is accumulating in quantities. Bulbous flowers are unusually plentiful. Prices remain about the same—\$3.50 to \$4 per 100, as growers realize the stock can not be sold for less without sacrificing it. The supply of home-grown carnations now more than meets the demand; many of them are retailed at Tomlinson Hall Market for 50c. per dozen. Select carnations, such as Enchantress, bring \$3 per 100; medium grades, \$2 per 100. Select roses are more plentiful now than at any time before this year; the best Bridesmaid, Bride and Golden Gate sell at \$7 per 100. Good Liberty are being shipped in for \$10 per 100. Select 36-inch American Beauty may be had in quantity at \$40 per 100.

Sweet peas are in fair demand and have supplanted violets to a large degree. Long-stemmed sweet peas are customarily wholesaled \$1 per 100.

Plant trade is fair, but it is an impossibility to keep much of the stock from going to waste. The warm, bright weather of the past week has taken many from the control of the growers, and fine azaleas, rhododendrons, etc., are being received, which were intended for the market two or three weeks hence.

Tomlinson Hall Market reports a very satisfactory week. Much stock is being received now, and, although business is not what it is sometimes, the large quantities of flowers there at this season give the market a very prosperous air. I. B.

WASHINGTON, D. C.—Business has been comparatively quiet this week. The spell of warm weather has produced an overabundance of all kinds of flowers, thus making a very material difference in the prices. Prime stock of American Beauty roses only brought from \$4 to \$8; Bride, Bridesmaid, Kaiserin Augusta Victoria, Souvenir du President Carnot, Meteor, Ivory and Golden Gate, \$1.50 to \$2.50; Liberty, \$2 to \$3 per dozen; Ilac, \$3 per dozen; Lilium Harrisii, 15c. per bloom. Violets are not much in demand in the stores; they realize 50c. to \$1 per 100. Lily of the valley sells at \$1 to \$1.25 per dozen; mignonette, 50c. to 75c. per bunch; sweet peas, 35c. to 50c. per bunch; Jonquils, 35c. to 75c. per dozen. The supply of the latter is commencing to arrive from the South. Dutch hyacinths bring 50c. and tulips 35c. to 75c. per dozen.

Plants of azaleas in 6-inch pots sell at from \$1 to \$1.25; lilac, \$4 to \$5; Primula obconica, 35c. to 75c.; cyclamen, 50c. to 75c.; Astilbe japonica, 50c. to \$1; Japanese fern balls, 50c. each. Shamrock in pans brought 75c. each on St. Patrick's day. Carnations and violets are being sold by all the street vendors, especially the commoner sorts of the former. M. C.

NEWPORT, R. I.—Not a very good week for the florists, as it has been cold and rainy. Prices are a little better on the whole, and, while counter trade has been light, there has been a call for funeral work. Some very elegant American Beauty roses were noticed this week, cut with 72-inch stems. F. W.

GRAND RAPIDS, MICH.—We have lately been blessed with an abundance of sunshine, which is bringing flowers out too fast. Carnations are plentiful; roses are inclined to be scarce in red and crimson, with enough of the pink and white sorts for all purposes. Lilies are none too plentiful, being kept well cleaned up; in fact, the supply of lilies for Easter will be none too large, a few have some that will be in just right, others will have them pretty well over. Violets are a drug. The dry goods stores, groceries, etc., sell violets at 5c. per bunch of a dozen. Special sales are made by one dry goods firm, and last Saturday the sign read: "Carnations 16c. per dozen." Little need be said about their quality. Violets are so cheap and common that it is lessening their popularity. The violet as a popular and profitable flower to raise in large quantities for shipping purposes, has seen its best and palmiest days.

Bulbous stock is very quiet; it is selling slow and spasmodically. Roman hyacinths of all bulbous stock seem to be the most useful, being indispensable for choice funeral work. Lily of the valley is much used, particularly for weddings. G. F. C.

BALTIMORE.—Business and the weather are both bad this week. A thunderstorm occurred last Sunday, and it has been rainy and cloudy from then up to the present writing. There is plenty of almost everything—too much of some stock. Violets are selling extremely slow, as is bulbous stock. The better grades of roses and carnations are moving fairly well, but no fancy prices are to be had for anything. American Beauty are coming in more freely. Smilax is the only thing that is really scarce. Southern jonquils are expected daily; then the local greenhouse stock will suffer still more. F. T. Covey, of Newport News and Fredericksburg, Va., was in town this week buying plants for Easter. J. J. P.

CLEVELAND, O.—The exceptionally fine weather is forcing bulbous stock very rapidly; it is coming in so fast that it is a glut on the market. Some splendid Murillo tulips are seen, and other later ones, such as Prosperpine. Most of the florists fear they will not have stock enough for Easter. Roses and carnations are good, but cheap. Violets hold prices well. Narcissus and Roman hyacinths are used extensively in funeral work. O. G.

NEW BEDFORD, MASS.—Trade the past week has been very quiet, with an occasional spurt of funeral work. There was no marked demand for St. Patrick's Day. Roses, carnations and violets are in plentiful supply. Bulbous stock is moving very slowly. The average prices are: Carnations, 50c. dozen; roses, \$1.50; violets, \$1 per 100. Bulbous stock brings about 50c. per dozen blooms. W. L.

CINCINNATI, O.—The past week business has been a little on the quiet side, yet all good stock has moved off nicely, very little of any kind going to waste. American Beauty are the best sellers; long stem flowers bringing \$4 and \$5 per dozen, according to quality. The outlook for Easter is very good, and I assure you that Cincinnati will be right along with the other large centers when Easter arrives. E. G. G.

PITTSBURG.—Business the past week was rather dull and prices have come down considerably. Carnations go at \$10 and \$15 per 1,000 for good stock. Violets are in fair demand at 50c. per bunch and better. Sweet peas are selling well. Bulbous stock is a little slow. There was a good demand for green-deyed carnations on St. Patrick's Day. Shamrocks were also much in evidence. E. C. R.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

ROME, GA.—Mrs. H. C. Norton has discontinued her florist business here.

ELWOOD, IND.—A. Deubendorfer has purchased ground here, and will build another greenhouse.

MINNEAPOLIS, MINN.—Pathey & Thompson have started a new flower store at 11 Seventh street.

HOUSTON HEIGHTS, TEXAS.—W. A. Hawkins, of Galveston, will establish a greenhouse plant on Arlington street.

SHELBYVILLE, IND.—W. F. Law has sold his greenhouse and property in Maplewood to L. S. Limpus and Jonathan Tennant, the consideration being \$7,000.

CALLA, O.—The Calla Cut Flower Company has been incorporated, with \$6,000 capital stock, by M. E. Templin, N. M. Bassinger, Frank Rogers, J. M. Bogner and E. E. Forney.

MCKEESPORT, PA.—Geyer & Smith have purchased the Crump greenhouses in Dravosburg. N. J. Ribsam is in charge. The firm is a new one, having only recently entered the business. It is meeting with much success.

BUSINESS DIFFICULTIES.

BOSTON, MASS.—James W. Newman, florist, living in Belmont, doing business at 27 Washington street, has filed a bankruptcy petition. His liabilities are \$7,619.60. Assets are \$7,000, represented in encumbered real estate.

BOWLING.

NEW YORK VS. NORTH HUDSON COUNTY.—The much-talked-of match between these two rival teams came off on Monday night, March 20, on the New York alleys and resulted in a complete victory for the home team, they being 462 pins ahead at the close of the third game. Theodore Lang was high man of the evening with 234, and for that distinction he was presented with a Waterman fountain pen, donated by P. Kessler. Patrick O'Mara made the presentation speech, at the same time giving the recipient much fatherly advice.

The bowling capabilities of the Hoboken florists are perhaps not so well developed as those of their New York opponents. They have now been beaten twice and under a different name each time. When it comes to musical talent, however, the Hoboken boys are a century ahead of New York, and while seated at the dinner, served immediately after the match, they rendered a few solos and choruses of German composers with such soul-stirring fervor that the feeble attempts at hilarity of the New Yorkers over their victory were at once hushed into complete silence, and they listened with rapt attention and amazement, lost in admiration at the remarkable geniality and good-nature of these hardy toilers from North Hudson county. West Hoboken, N. J., while smarting under the lash of a recent defeat. The individual scores follow:

NORTH HUDSON.			
M. Hansen	148	142	126
P. Fischer	105	125	106
C. Dietz	154	133	143
H. Mende	108	123	136
H. C. Steinhoff	120	92	74
W. Otte	177	169	157
	812	784	742

NEW YORK.			
P. O'Mara	122	167	163
P. Kessler	152	179	173
W. H. Siebrecht	149	135	135
W. Ford	155	158	129
J. Fenrich	126	149	128
T. J. Lang	150	234	198
	854	1020	926

Total—New York... 2800.
Hoboken... 2338.

Alex. Burns, Woodside, N. Y., the dean of bowling in New York, was the referee, and his decisions were rendered in that prompt and decisive manner that only a long experience and a perfect familiarity with the game assure.

The concluding match of the series between the bowling teams of Madison, N. J., and New York, is scheduled to take place on Friday night, March 24, on the Tuxedo alleys at Newark, N. J. Apropos of bowling, there is a desire among the members of the New York Bowling Club to arrange for a match among its own members. It is remarked that the team of so-called experts that has been posing in the limelight at the many matches that have been played this Winter are not the only crack bowlers the club possesses; in fact, some members assert that a team can be chosen from within the club's ranks that can beat the team that was pitted against the Hoboken Club last Monday night. If this is so, let a match be arranged at once; it would at least be an exciting game, and would provide plenty of amusement for these quiet Lenten days.

GREAT NECK, N. Y.—George Matthews is completing a range of three houses, each 180 feet long and 17 feet wide. In these houses there is being used an extremely small ridge and iron frame ventilator sash. The King Construction Company, of North Tonawanda, N. Y., has furnished the material and designs.

BLACK STUFF FINE TOBACCO POWDER
(For Sprinkling)

STRONGER and FINER

than others. Our free five-pound trial bag costs nothing more than the express charge on it. Our booklet tells what your brother growers think of it. We mail one on request.

THE H. A. STOOHOFF CO.
TOBACCO POWDER HOBBYISTS
116 WEST ST., N. Y. CITY

Mention the Florists' Exchange when writing.

The Retail Trade

A Store Opening.

CINCINNATI. Monday, March 20, Julius Baer moved into his Palace Flower Store, on Fourth near Main street. His window display was of violets and violet baskets, cords and tassels; the north section was of daffodils, ferns, and genistas. To the right, as you enter the store, is his illuminated ice chest, and in the rear of this is a commodious cozy corner, fitted in fret-work and upholstered in leather. A little to the left is a very cute and pretty writing desk, with cards especially for the use of the ladies. Stretched upon the floor immediately in front of the cozy corner is an immense skin of a grizzly bear, with life-size head. To the right of this cozy corner is another ice-box and more fret-work clear to the ceiling, breaking the view of the back part of the room, and his office. The left side of the store, as you enter, is all looking glass, with palms and bay trees standing in the rear. Out of sight is his work room, where the money is made, and where the dirt is never in sight of the customer. As a souvenir Mr. Baer gave away "Beauties of Spring," the picture of a beautiful maiden with right hand resting on a rustic railing, while in her left hand she holds a branch of Spring blossoms. This is, without doubt, the handsomest flower store in the West. E. G. GILLET.

IMPROVED REVOLVING FOUNTAIN FLOWER STAND.—The Eclipse Novelty Works, C. C. Boyd, manager, of Pulaski, Pa., is putting on the market an improved revolving fountain flower stand, which seems to be a serviceable device. The stand can be taken apart, and its component parts packed into small space for storage and transportation.

The inventor furnishes the following particulars: "The stand is constructed, having a hollow tube run clear through the center, to which a hose may be attached. This tube extends about fifteen inches above the topmost plants, and is provided with a suitable sprinkler, which, as the water is forced through, causes it to fall in a beautiful shower over all the plants held in the stand. The stand is nicely constructed of iron and steel, neatly curved and bent in an artistic manner, and although only weighing about forty pounds, will carry a weight of 500 pounds, if necessary. The height of the stand is five feet, the width at the widest part is 36 inches. It holds 24 pots, varying in sizes from 4½ to 7 inches. An extra pot ring is also put on top when the spray is taken off, making the stand hold 25 pots. The stand is mounted on casters, so as to be easy to move about the house or porch, and is nicely painted in bright colors. The pot holders being made in the form of rings, it is impossible for the pots to blow or be knocked off, no matter how hard the wind blows or how top heavy the plants may be." All the brackets and arms can be revolved around the main stem at will.



CARNATION MELODY (DAYBREAK LAWSON)
Originated and Grown by W. C. Hill Co., Streator, Ill.



THREE-YEAR-OLD PLANT OF VIOLET PRINCESS OF WALES IN STANDARD FORM

Photo by W. H. Waite

STATICE.—In the protest of Reed & Keller against the assessment of duty by the collector of customs at the port of New York the general appraisers have issued the following opinion: "Certain statice was held to have been properly classified under paragraph 51, tariff act of 1897, relating to flowers suitable for decorative purposes."

Carnation Melody.

Editor Florists' Exchange:

We send a photograph (reproduced herewith) of Melody, our Daybreak sport from Mrs. Lawson. It originated at our place in 1903 and has shown no tendency to revert to the Lawson type in color. In habit of growth and freedom of bloom it is identical with Mrs. Lawson excepting that the stems come longer earlier in the season and flowers are larger. We cut blooms in November measuring 3¼ inches, with stems 15 to 18 inches in length. The color is the ideal Daybreak. The flower is a good traveler and a splendid keeper, and holds its color well. It is rather a strange fact, but one conceded by other growers of the Lawson sports, that they do not split as does the parent variety. It is so with Melody. Up to the present time, March 15, we have had no splits, and during the past severe Winter the temperature was more often 50 to 52 degrees instead of 54 degrees, the usual Lawson temperature.

Mrs. Lawson is not running out with us, and we will grow three of them next year, namely, Melody, White Lawson and the dark pink Lawson. Melody will be introduced to the trade in 1906 jointly by the W. C. Hill Floral Company, of Streator, Ill., and the J. D. Thompson Carnation Company, of Joliet, Ill.
W. C. HILL FLORAL COMPANY,
Per F. R. Thornton, Manager.

World's Fair Flower Show Association. Report of Chairman of Executive Committee.

This association, whose organization began Saturday, October 15, 1904, at a called meeting at the Sherman House, of this city, was completed within about ten days from that date, seventy members having joined during that time and having subscribed a sum total of \$7,210. (Only those paying promptly the 20 per cent. levied are included in these figures.)

The preparation of copy for premium lists was practically made the first day of the organization excepting a few additional classes. The printing of the same was completed four days thereafter, one day being necessary to arrange for its final certification by Chief Taylor of the Department of Agriculture, Louisiana Purchase Exposition.

Final premium list showed a profit of something like \$150 received from advertising. The cash handled in premiums, expenses, assessments, dividends, etc., is all detailed in your treasurer's report.

The objects of the association were briefly:

First—To secure for growers of cut flowers and blooming plants, all official awards possible at the St. Louis World's Fair.

Second—By offering cash prizes which the Exposition

Company did not provide to enable the growers of the above to compete for the awards without serious financial loss.

Third—To take this opportunity for a chrysanthemum show where the large attendance of this World's Fair was available, to advertise, uplift and carry forward floriculture and horticulture in the public eye.

Fourth—To do this without financial loss to the guarantors and if possible with a profit.

That the above objects have all been accomplished with reasonable success I believe all of our members will agree, having knowledge of same through personal attendance at the show or through accounts in the public press.

While your executive committee has carried the work to completion at no little cost in time and labor and while probably none of them are anxious to do their work over, I feel safe in saying that none of them regret having done their share, which it seemed the best interest of floriculture then demanded.

Personally I have to thank every one officially connected with the show for the most cordial and hearty support at all times and under all conditions.

I feel that no enterprise could have been carried on with greater unity of purpose, and to that I attribute our success.
J. C. VAUGHAN, Chairman.
Chicago.

TREASURER'S REPORT.

Receipts.	
Assessments paid, being 20 per cent. of \$7,210.....	\$1,442.00
Advertising in programme.....	480.00
Souvenir postal card and poster sales.....	87.50
Gate receipts, net.....	7,720.00
Missouri Botanic Gardens, premiums assumed and paid.....	160.00
	\$9,889.50

Disbursements.	
Premiums paid.....	\$4,476.00
Assessments returned.....	1,442.00
Salary, labor and souvenirs.....	867.70
Printing and stationery.....	446.00
Advertising.....	313.88
Traveling and committee expenses.....	199.45
Vases.....	133.23
Material, etc. for installation.....	90.27
Posters and souvenir postal cards.....	215.30
Signs and cards.....	55.50
Tickets.....	35.75
Flowers presented to visitors.....	73.50
Postage, telegrams, telephone and exchange.....	59.97
Freight and express charges.....	23.66

Total.....	\$8,432.21
Dividend, 20 per cent. on \$7,210.....	1,442.00
Reserved for printing final report and mailing same, etc.....	15.34
	\$9,889.55

We certify that we have examined the above report on the books and vouchers pertaining to the same and find the report a true and correct one.

WILLIS N. RUDD, Treasurer.
N. J. WIETOR,
F. F. BENTHEY,
E. C. AMLING,
Committee.



BUNCH OF VIOLET PRINCESS OF WALES
Photo by W. H. Waite

Standard Violet, Princess of Wales.

The accompanying illustration of a standard violet is more of a novelty in violets than as a good salable florist's plant. It makes a very pretty subject in the greenhouse, but I am told, on good authority, that the flowers last but a few days when exposed to store treatment. The plant illustrated is three years old, and at the time it posed for its picture had over 50 expanded flowers and numerous buds.

W. H. WAITE.

DANIEL B. LONG, Buffalo, N. Y., has originated a very pretty "Easter greeting" design card—a bunch of lilies in natural tints on a shaded background. Mr. Long informs us this card has been favorably received by the craft generally. It is chaste and quite attractive.



Gardenia Florida.

(112) Kindly inform me through the columns of your best papers, The Florists' Exchange, how to treat Gardenia Florida after flowering, to get the best plants for forcing another year. Also how to get the young cuttings, with treatment of the same through the Summer. Are they kept partially dormant until Fall or growing all Summer.

A. B. R.

—After the gardenia has flowered, cut the plants back, but not into the old wood, and start them growing again in a good warm house. In late Summer, or Fall, after a clean, stocky growth has been made, give them a partial rest for six or eight weeks, when they can again be forced into flower. Cuttings are best made from the half-ripened young wood, and need a strong bottom heat in a close case on the propagating bench to root satisfactorily. After they are rooted, grow them on in a warm house, potting them as becomes necessary, and using always a rich and very open soil. These young plants make the best subjects for flowering if grown right along without any rest; then they can be cut back, started again, and will provide cuttings for the following season's supply of plants. The old plants always require a resting or ripening period, but with the young plants that is not necessary.

Value of Pigeon Manure.

(113) I have about 300 pounds pigeon manure in good condition. Please tell me what it is worth.

P. S. T.

—We have no means of placing a current estimate of value on the pigeon manure, but would recommend the owner of the manure to advertise it for sale, offering it to the highest bidder.

Plants to Follow Violets.

(114) One bench of single violets holding about 500 plants will be vacant by March 15. Will it then be too late to fill that bench with something yielding cut flowers for Easter, or pot plants? I prefer cut flowers.

L. D.

—The limited time between March 15 and Easter, which is on April 23, will not allow of producing another crop on the vacant space.

Orange Leaves Affected.

(115) The leaves have been examined by the mycologist, who reports that the tree is evidently suffering from the disease called "Wither Tip," which is caused by the fungus *Colletotrichum gloeosporioides* Penz. The fungus may be best controlled by pruning out diseased twigs and spraying the tree with Bordeaux mixture. By careful cultivation and fertilization the fungus may be prevented from becoming established in an orchard, as the chances of infection are greatly reduced when trees are in the best physical condition.

A. F. WOODS,
Chief Pathologist and Physiologist.

Carnation Blooms Not Keeping.

(116) I have been troubled a good deal in keeping carnations, and I have recently moved my store to a more modern building partly on account of that. The store I occupy at present is lighted by electric lights and I have steam heat and plenty of air, and use it freely. I also have a large, airy cellar that I can give most any temperature desired, and the flowers do not seem to keep there. I have been experimenting in different ways trying to keep them, but with no success. I grow my own carnations, and they are from good healthy plants. The varieties that seem to close up worst are Enchantress and Mrs. Lawson. I would like to hear from some one else who has been troubled in a similar manner. The same carnations I can keep cut in a shed at the greenhouses and have them look nice at a week old.

A. D. C.

—The going to sleep of carnations has been discussed many times in The Florists' Exchange, and it has become a well known fact that the variety En-

chantress is a most unsatisfactory keeper under the best of conditions. In the present case, where the flowers are home grown, and they keep well in the shed at the greenhouses, why would it not be a good plan to take note of the conditions of temperature, moisture, light, etc., in the shed referred to, and duplicate those conditions in the store cellar as nearly as possible.

Heating.

(121) Kindly advise the best way to heat five houses, each 17 x 100 feet, with hot water, to 40 degrees in zero weather. The houses are even span, running east and west, sides 2½ feet high, south side glass, 16 inches wide. The boiler is 2 feet in ground. I cannot have it deeper on account of poor drainage. Boiler has a 6-inch flow; also two 3-inch flows and four 4-inch returns. The houses are 8 feet to ridge; beds solid. I have 3-inch and 2-inch pipe, and would like to use it. I would like water at boiler about 160 degrees in zero weather, so as to have easy firing. The boiler is plenty large enough.

W. C. P.

—The boiler must have a capacity of about 3,000 square feet of heating surface. Assuming that you have sufficient 2-inch pipe to do this work, and also 3-inch which can all be utilized for heating surface in the greenhouse, we would advise using 3-inch overhead flow mains, placed on a column under the ridge, and run these to the far end of each house, using in each house eight 2-inch wrought-iron pipes, as follows: These can be distributed on each side and one on each side of the center bench, making eight in all. As we face the houses from the boiler, we will let house No. 1 be on the extreme left and Nos. 2, 3, 4 and 5 following to the right. The boiler will be placed in the end of house No. 4; and we would advise overhead mains from the boiler of 6-inch size; reduce to 5-inch to house No. 3 and to 4-inch to house No. 4 and to 3-inch to house No. 1. From the 6-inch main to house No. 5, 3-inch mains will do. Returns to be run the same sizes and proportions. Place stop valves on the far end of each circulation, a 2-inch full opening gate is the best. A steel expansion tank, 16 x 48 inches, placed as high above the mains as possible and connected to the returns, will do. By piping the houses on the above plan, you will maintain the temperature desired, with the water at about 160 degrees. There is always a disadvantage in heating houses where the boiler pit is so shallow, and practice demands that the increased surface be put in to allow for the slow circulation in consequence. For this reason we have also allowed the mains to be large, as best results will be obtained. It is of the utmost importance in a job of this kind that boiler power of sufficient capacity be put in.

U. G. SCOLLAY.

REPLY TO L. McLAUGHLIN.—Especially if the benches are too near the glass it will be well to move them out as proposed, and place the coils on the wall. If a temperature for carnations is desired, it will answer to use two 2½ inch flows on each wall, with two 2-inch returns for each. Place the flows as high as possible, with a fall of not more than ten inches. Give the returns a similar fall, but be sure to keep them as high as you can. The four returns on each side should be collected into one 3-inch return. There should be an air valve in the highest point of each flow. While butted glass answers fairly well if well laid, on roofs that are on a slope of 35 degrees, the lapped glass is generally preferred under all conditions for the roofs of greenhouses.

L. R. TAFT.

How much 2-inch pipe will be required and how should it be arranged for a small greenhouse, 20 feet wide by 30 feet long, 9 feet to ridge, house running east and west, ¾ span, long span to south? South wall 3 feet out of ground with no glass. North side to be connected to present greenhouse by gutter (wood). West end will have one door with no glass. East end to be connected to potting shed, which will be heated from the boiler room and smoke pipe; building to be of wood construction, papered between posts and siding and between siding and coping. House to be heated to 55 degrees at 30 below zero outside, hot-water system. Boiler to be located on northeast corner of potting shed.

F. B. P.

—It will be well to use two 2½-inch flow pipes, either overhead or under the side benches, as will be most convenient, with two coils of five 2-inch pipes as returns. These should extend part way across the west end of the house, if it is much exposed.

L. R. TAFT.

I propose to install a 20-horsepower return tubular boiler in cellar, where space is limited and must be economized to the last foot of room. The side walls are of cement and banked against the ground outside and about 5 feet deep. Can I use the wall for an outside wall on the one side of the boiler without serious disadvantage? Would a cement wall be satisfactory from the foundation up to the top of ash-pit level with the grate bars? Will two outlets be better than one from the boiler, where the flows take different directions? If not, what size would you advise to supply two 2-inch flows?

S. B.

—The cellar wall can be used, but it should have a lining of firebrick. A cement wall for the ash-pit will answer. There may be either one or two outlets, as will be most convenient. To supply two 2-inch flows the main should be 3-inch if there is more than 800 square feet of radiation in the coils, while 2½ will answer if there is less.

L. R. TAFT.

I am to build two greenhouses, 25x 300 feet, east and west, long span to south, both ends glass; 3 feet of glass on the south wall, 2 feet on the north wall. The houses are to be connected and a partition between them 12 feet to ridge. I want to grow roses and carnations. How should I pipe these houses? Will have boiler 24 feet long 42 inches in diameter, with two 14-inch flues. Will heat with steam.

J. H. O.

—For the rose house, it will be well to use one 2½-inch flow and ten 1¼-inch returns. Most of the return pipes should be on the side walls, but it will be well to have them distributed across the house if raised beds are used. For the carnation house one flow and eight returns should suffice.

L. R. TAFT.

We are heating three houses, each 200 feet long. Our boilers are set 10 feet from the middle of houses in boiler shed. Our mains from boilers run directly across the middle of all houses. To get the best results, which way should the taps, or outlets, point on these mains? To the top or from the sides?

W. W.

—If the mains are sufficiently large and the boiler is of ample capacity, there should be no trouble in getting an even circulation by arranging the pipes in either way; but it will be surest to connect both flows and returns upon the top of the mains.

L. R. TAFT.

I have a large brick chimney 25 feet high from the ground, from the bottom of cellar 3 feet more, flue measures inside 28 inches square. I want to put in two boilers (return tubular steam boilers). What size can I put in? If I should add 10 feet more to the chimney, can I increase the size of the boilers? If so, how much?

D.

—A good deal will depend upon the surroundings when the effectiveness of a chimney is concerned. As a rule, it is advisable to have it extend 35 or 40 feet above the level of the boiler. The capacity varies with the height and also with the area of its cross-section. With favorable surroundings, the present height would probably answer for two boilers of 35 to 40 horse-power each. The addition of 10 feet to the height of the chimney would certainly adapt it for two boilers of 50 horse-power each. With low chimneys, especially if the air currents are broken in any way, the setting of two boilers sometimes complicates things.

L. R. TAFT.

How many lines of 2-inch hot water pipe will it take to heat a house 30 x 16 feet facing south and north, to 50 degrees in zero weather? The house is 9 feet high to ridge, side walls 4 feet high, no glass in sides. I can put my boiler down only about level with return hole in boiler. I would like to pipe the house without putting an overhead pipe in. Could I put a 3-inch pipe up straight, 4 feet high, from boiler, and then run it level 4 feet and then drop it to go under the bench? If so, I can carry the pipe all the way around under the bench and return it back to boiler?

G. S.

—The proposed plan for running the

flow pipe should prove satisfactory. After reaching the inside of the house, connect the flow with a coil composed of three 2-inch pipes, and carry this around the three exposed sides of the house; then connect with the boiler with a 3-inch pipe. Keep the returns as high as possible, giving the coils a slope of about 1 inch in 10 to 15 feet. The expansion tank should be connected with the highest part of the system.

L. R. TAFT.

I have a range of five houses, 18 x 50 feet 4-foot side walls, no glass in walls, 11 feet to ridge. Houses run north and south; potting shed on north end of the range, into which all the houses open and under which are the boiler and coal bins. Each house has a run of five 1-inch steam pipes along the side walls, each run fed overhead by a 1½-inch steam pipe, which is supplied from a main running the length of potting shed. My dwelling house is also connected with the potting shed and has 300 feet of radiation. I would like to have your opinion as to the size of boiler that would be best suited to do the heating most economically, giving at the same time the size of the grate bars and the probable consumption of coal to do the work, hard coal being the fuel used. Night temperature required is 45 to 50 degrees. I forgot to state that the pipes extend on the south end of each house about 6 feet on each side, thereby making the run on each side about 56 feet long.

A. M.

—A boiler with a rating of about 20 horse-power and a grate containing in the neighborhood of 12 square feet of surface should heat the five greenhouses and the dwelling. The fuel consumed will vary from 300 to 500 pounds per day.

L. R. TAFT.

To Stop Leak in Elbow.

(127) I have a 4-inch elbow which has got cracked by some means—probably was packed too tight—and it is leaking very badly. It is an awkward place to get at to put a new one in. What is the best thing to do to stop it?

K. A. G.

—A good deal depends upon the character and extent of the break. Sometimes the leak can be stopped by placing an iron clamp around the elbow. This can be drawn down upon the elbow by means of a bolt so as to close the crack. If there is still a small leak, it can often be stopped by means of litharge. Another way is to wrap the cracked portion with two or three thicknesses of canvas that has been smeared with white lead, and then bind it with stout twine or a small rope.

L. R. TAFT.

Starting Bulbs.

(122) What is the best way to start oxalis, gladiolus, gloxinias and tuberose? The tuberose are for outdoors. Would it be best to start them in the greenhouse? Also, should these bulbs be kept under the bench until they make roots?

SUBSCRIBER.

—The oxalis and gloxinias should be started in small pots and kept on the greenhouse bench from the beginning. The tuberose and gladiolus will be all right if planted outdoors as soon as all danger from frost is over.

White Fly on Tomatoes.

(123) We have a large house of tomatoes just setting fruit, and the plants are full of little white flies. Can you tell what they are, and what will kill them without injuring the plants?

COOL.

—The white fly is what is known as aleyrodes, and a dusting of pyrethrum powder, applied with a bellows, is the best known remedy.

The Aster Beetle.

(124) What is the best way to get rid of the aster beetle? Is Paris green good, or is there something better? How should it be mixed so as not to burn the foliage?

COOL.

—The best remedy for the aster beetle is one teaspoonful of Paris green in three gallons of water, applied with a syringe. Do the syringing in the evening.

Oyster Shell Lime.

Referring to an inquiry regarding this material, appearing in a previous issue, the Haslam Lime Company, corner of Cliff and Mechanic streets, Scranton, Pa., advises us that it can supply the kind of lime mentioned.

Continued on page 406.

EXTRA QUALITY

Moss for Easter

THE NEW JERSEY MOSS & PEAT CO.
Established 1890 - **Barnegat, N. J.**

IRVING PREDMORE, Prop.
Wholesale and Retail Dealers in **MOSS and PEAT**
10,000 Bales On Hand for 1905

We trust you will take time to read this advertisement and be benefited by it. We have been in the Moss and Peat business for fifteen years, so in dealing with us you are sure of getting the benefit of our long experience in this line.

NATURAL GROWTH MOSS Bales of 5 barrels, \$2.25; bales of 10 barrels, \$4.25. This grade is for fine design work.

SELECTED STOCK MOSS Bales of 5 barrels, \$2.60; bales of 10 barrels, \$5.00. This grade is for very fine design work and special occasions. For Nursery Stock Moss please write us for prices. If cash accompanies order we will allow 6 per cent. off.

LEAF MOULD Fibrous and Rotted Peat, per barrel each: Lots of 1 to 5 sacks, \$1.00; 5 sacks, at 90 cts.; 10 sacks, at 80 cts.; 15 sacks, at 75 cts.; 20 sacks, at 70 cts.; and 25 sacks, at 65 cts.

GREEN CLUMP MOSS per sack, 1 to 5, \$1.60; 5 sacks, \$1.25; 10 sacks, \$1.12; and 20 sacks, \$1.00.

SILVER SAND Per barrel, 1 to 5, \$1.75; 5 barrels, \$1.50; 10 barrels, \$1.25; 20 barrels, \$1.12; 25 barrels, \$1.00.

NOTICE. Say you saw this advt. in THE FLORISTS' EXCHANGE when you send the cash and have your choice of these

SPECIAL OFFERS	
Natural Growth, Selected	
1-10 barrel bale for.....	\$3.90 \$4.50
2-10 " " " " " " " "	7.50 8.75
3-10 " " " " " " " "	11.50 13.50
4-10 " " " " " " " "	22.50 25.50
10-10 " " " " " " " "	37.00 40.00

This offer will expire on June 1.
HONORABLE MENTION.
"Society of American Florists. This is to certify that Irving Predmore is entitled to Honorable Mention for having clean and well packed Sphagnum Moss and Peat. Exhibited at Cleveland, Ohio, August 18-21, 1898. William Scott, Pres., Wm. J. Stewart, Secy."

The New Jersey Moss & Peat Co.
REFERENCES: Geo. M. Stumpp, Ches. A. Darde, J. M. Thorburn & Co., of New York City.

Chrysanthemums

Dr. Enguehard, Mrs. T. W. Pickett, Cheltoni, Mrs. C. J. Salter.

Transplanted cuttings from soil, \$5.00 per 100
Rooted cuttings from sand 4.00 per 100.

Wm. Duckham, Alice Byron, Goldmine, Carlington, Yellow Jones, Yellow Eaton, A. J. Balfour, Merry Christmas, W. Bonnaffon.

Transplanted cuttings from soil . . . \$4.00 per 100
Rooted cuttings from sand 3.00 per 100

Mutual Friend, Nellie Pickett, G. S. Kelb, Bergman, Mrs. J. Jones, Mrs. H. Bobineon, Eaton, White Ivory, Polly Rose, McArthur, Whilldin, Helliday, Bonnaffon, Marion Henderson, Appleton, Golden Wedding, W. H. Lincoln, Mrs. Chamberlain, Pink Ivory, J. K. Shaw, Meud Dean, President Smith, Helen Bloodgood, Glory of the Pacific, The Harriot, Intensity, Black Hawk.

Transplanted cuttings from soil . . \$2.00 per 100
Rooted cuttings from sand..... 1.50 per 100

GARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$1.50 per 100, \$12.00 per 1000; Boston Market, Mrs. T. W. Lawson, Prosperity, Fair Maid, \$2.00 per 100, \$15.00 per 1000; Harry Penn, Harloward, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.00 per 100, \$25.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000. 250 et 1000 rate.

ROOTED COLEUS CUTTINGS

Golden Bedder, Firebrand, Verscheffelitt and mixed colors, 75c. per 100, \$6.00 per 1000.

ROSES

2 1/2 in. pots, \$3.00 per 100, \$25.00 per 1000.
Bride, Bridemaid, Ivory and Golden Gate.

GRAFTED ROSES

On Imported English Manetti Stock, nothing but flowering wood used. Bride and Bridemaid, Golden Gate, \$10.00 per 100; \$100.00 per 1000. Liberty, \$12.00 per 100; \$120.00 per 1000.

JAMES E. BEACH,
2019 Park Avenue, BRIDGEPORT, CONN.

EASTER, The Holiday of Flowers!



The joyous time of Flowers and Song approaches.

On Easter Day every one wants Flowers.

A season of profit to the Florist, if rightly worked for.

A time to favor customers with a Complimentary Souvenir, referring to the event, special stocks and facilities, etc. Such employed means promote both business and a desired prestige worth way above any mere money value.

For such purposes the undersigned offers newly designed affairs of unusual character, such as:

- CARDS, FOLDERS and BROCHURES.
- POST CARDS, Easter Lily designed, in idea new.
- TAGS for Easter week use. Elegant. Others in variety.

A Liberal Book of Price-Listed Samples sent promptly on receipt of 10c. in stamps.

DANIEL B. LONG, Publisher, Buffalo, N. Y.

Mention the Florists' Exchange when writing.

THE AMERICAN GARNATION
PRICE, \$3.50 Send for Sample Pages
A. T. DE LA MARE PTG. & PUB. CO., 2-8 DUANE STREET, NEW YORK

Greenhouse Materials

OF ALL KINDS

Absolutely Clear Cypress, Sun and Air Dried

Cypress Sash Bars

In all lengths and cut to exact sizes

Tennessee Red Cedar Posts

Lengths as wanted

Pecky Cypress for Benches

Economical and everlasting
Coming into general use

Hot-Bed Sash and Frames

Various styles and sizes
Ready for prompt shipment

Foley Ventilating Apparatus

"It works like a charm"

Pipe, Fittings, Gutters, Glass

And all supplies needed in new or reconstruction work

Get our Estimates and Suggestions on proposed work
Send for free illustrated Catalogue

FOLEY MFG. Co., 471 West 22d St., CHICAGO

Mention the Florists' Exchange when writing.

SAMUEL S. PENNOCK THE Wholesale Florist of Philadelphia
GARDENIAS and WHITE VIOLETS

Mention the Florists' Exchange when writing.

Let us know your wants in Plants and Cut Flowers for Easter. We can fill them.

Mention the Florists' Exchange when writing.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses, Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN
7.30 A. M. to 8.00 P. M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

FANCY CARNATIONS AND ROSES

Mention the Florists' Exchange when writing.

PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

CARNATIONS

In Any Quantity. No better stock coming to this market

Mention the Florists' Exchange when writing.

THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A. M. to 8 P. M. 1217 Arch St., Philadelphia, Pa.

Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

HASLAM LIME CO.
Manufacturers of ONLY OYSTER SHELL LIME
118 to 130 Cliff St. Scranton, Pa.
Mention the Florists' Exchange when writing.

CAN SHIP AT ONCE

Colens, 10 kinds, Vinca Variegata, 2 in.	\$2.00	\$18.00
Paris Daisy, Giant white, Alyssum, Double	2.00	18.00
Everblooming Forget-Me-Not, Salvia, Bonfire, Splendens, Silver-spot	1.50	12.00
German Iris, Rudbeckia, divided roots	2.00	17.50
Double Daisy, Snowball, Longfellow, wintered over	1.00	9.00
Pansies, Sweet Williams, Fall sown	2.50	
Hardy Pinks, field clumps, 5 kinds	3.50	30.00
Coreopsta Lane, field-grown	2.00	15.00
Hollyhocks, small 1-year-olds, 5 kinds	1.00	9.00
List below, Rooted Cuttings, prepaid.	Per 100	1000
Ageratum, Pauline, Gurney, white	\$0.50	\$4.50
Salvia, Bonfire, Splendens, Silver-spot	.90	8.00
Vinca Variegata	.90	8.00
Petunia, d'ble, 10 finest. Fuchsia, 5 kinds	1.00	9.00
Hardy Pinks, 6 sorts	.75	5.00
Paris Daisy, Feverfew Gem	1.00	9.00
Alternanthera, red and yellow, 5000 for \$15.00	.50	3.50
Hellotrope, Stevia Variegata, Serfata	.75	7.00
Coletta, 12 best heddars	.90	5.00
Chrysanthemums, Weeks, Western King, Pacific	1.00	
Cash. Direct all orders plainly to		

BYER BROS., Chambersburg, Pa.
Mention the Florists' Exchange when writing.

New Shasta Daisies

ALASKA, } \$ 3.00 per doz.
CALIFORNIA, }
WESTRALIA, } 15.00 per 100

Having obtained my stock from Mr. Burbaok, it is warranted to be pure and true to name. Postal for circular. Shasta daisy "Shasta," strong field divisions, \$3.00 per 100. Small plants, one-third less. Prepaid. Cash, please.

FRED GROHE, McDonald Santa Rosa, Cal.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings, Wm. Duckham, Dr. Enguehard, Ben. Wells and Donald McLeod, \$3.00 per 100; 2 in. \$5.00 per 100. Send for complete list.

PRINCESS OF WALES VIOLETS
Rooted Ranners, 75c. per 100; \$8.00 per 1000. 5 per cent. discount for cash with order.

R. ENGELMANN & SON, PITTSFIELD, MASS.
Mention the Florists' Exchange when writing.

THE MONEY-MAKING CHRYSANTHEMUMS ARE POMPONS

They are becoming very popular, and a necessity in every florist. To reduce a large stock WE MAKE THE FOLLOWING OFFER, for only a few days:

Our Selection from the Best Varieties for Florists' Use,
\$2.50 per 10; \$20.00 per 1000.

NATHAN SMITH & SON, - Adrian, Mich.
Mention the Florists' Exchange when writing.

Boston Ferns, 2 1/2 in., \$4.00 per 100, fine plants to \$25; 6 in., \$40; and large 7 in., \$60 per 100. Good stock to handle quick at a large profit.

Roses - Rooted Cuttings -Bride, Bridesmaid, Ivory, Golden Gate, per 100, \$1.50; per 1000, \$12.50. Perle, Meteor, per 100, \$2.00; per 1000, \$17.50. Strong cuttings, heavily rooted. Will make fine pot plants soon for early planting. Get our very low prices on Asparagus Plumose and Sprenger.

W. H. GULLETT & SONS, Lincoln, Ill.
Mention the Florists' Exchange when writing.

EUGENE BAYER

Formerly of Stuttgart, Württemberg, Germany, is requested to send his address to P. UMFRID, 2827 Poplar Street, Philadelphia, who has valuable information to give him.

Mention the Florists' Exchange when writing.

100,000 ALTERNANTHERAS

Strong rooted cuttings, Brilliantissima, new deep red a fine variety, 75c. per 100 or \$6.00 per 1000. P. Major, red, 50c. per 100; \$4.00 per 1000. A. Nana, yellow, 50c. per 100; \$4.00 per 1000. Special prices on 5000 or more.

DAVIS BROS., Morrison, Ill.
Mention the Florists' Exchange when writing.

I V Y

Hardy large leaf variety, bushy, 4-5 ft. high, 5 in. pots, \$15.00 per 100. Rooted cuttings, very strong, 5-8 eyes, \$1.25 per 100; \$10.00 per 1000. Lemon Verbena, stock plants, 4 in. pots, \$5.00 per 100. Cash with order please.

JOHN RECK & SON, Bridgeport, Conn.
Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN.
Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order.
E. B. JENNINGS, Lock Box Southport, Conn., 254.
Grower of the Finest Pansies.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings From Healthy Stock.
Wm. Duckham, Dr. Enguehard.....\$2.60
Polly Rose, Glory of the Pacific, T. K.
Shaw, Ivory..... 1.00
T. W. Pickett, Nellie Pickett, Midge, Halliday, Mourvina..... 1.50
Dracena Indivisa, Fall sown, transplanted, Asparagus Sprenger, extra fine, Geranium cuttings, mixed double var., each \$1.25 per 100. Candytuft, Giant II, for Memorial Day, \$2.50 per 1000. Cineraria, large fl., 3 in., 40c. per doz. Cash please
WILLIAM STUPPE, Westbury Station, L. I., N. Y.
Mention the Florists' Exchange when writing.

QUESTION BOX
(Continued from page 403.)

A Branching Tulip.

(125) We have a tulip bulb that produced two blooms; the stem was perfectly round and the second bloom branched off near the top. It was a very large and sturdy plant of the Prosperine variety, but bore no sign of the stem being made up of two grown together, as often occurs in hyacinths. Is this an unusual case? We have never seen it before and wondered if the plant would be worth while propagating.
C. C.

—We have heard something of a branching tulip that has originated in Holland, and perhaps this is a stray bulb that has got in with your Prosperine bulbs. We would save the bulb by all means.

A Stock Trouble.

(126) We planted January 10 ten week stock in light sandy soil. The seed came up very good in due time. After the plants were large enough we transplanted the seedlings into carnation soil from last year, adding a little well rotted cow manure, and they started growing nicely; then the leaves commenced to curl as per sample sent herewith. We thought it was green fly, but could not discover any. The temperature where the plants grow is, night, 45 to 48, with good ventilation daytime. We should greatly appreciate it if you could inform us what the trouble is, as it is causing quite a loss to us. We have the plants potted in same soil, 2 1/4 pots, at the present time.
A. G.

—The stock shows no signs of green fly, or any disease that we can determine, and the curling up of some of the leaves must come from some local cause or other. We would advise raising the night temperature two or three degrees, and the young plants would no doubt soon outgrow the trouble.

A Lily Question.

(129) If a grower buys a certain number of Lillium multiflorum bulbs for forcing and finds, when they start to grow, that he has several varieties among them, a small proportion of them only being of the designated variety, should the grower in that case be called upon to pay for the inferior bulbs that were substituted?
AN INTERESTED GROWER.

Coming Exhibitions.

INDIANAPOLIS, IND.—The preliminary premium list of the Indiana Floral Festival and Chrysanthemum Show, to be held in Tomlinson Hall, November 14 to 18 inclusive, has been issued. Irwin Bertermann, 241 Massachusetts avenue, is secretary.

Green Stakes for Easter Lilies

Made of Round Wood Dyed Green
Improves Appearance of Plant and Increases Sales

3 ft., per 100, \$1.00; per 1000, \$7.50
3 1/2 ft., 1.10; 8.50

JAPANESE BAMBOO STAKES

Per 100, 75c.; per 1000, \$5.50; per 2000, \$10.00

VAUGHAN'S SEED STORE, 14 BARCLAY STREET NEW YORK

Mention the Florists' Exchange when writing.

J. K. ALLEN

Wholesale Commission Dealer in Cut Flowers
Telephone, 106 W. 28 St., NEW YORK Open at 187 Mad. Sq. 8 A. M.
Consignments Solicited.
Prompt Payments.
Mention the Florists' Exchange when writing.

C. BONNET G. H. BLAKE BONNET & BLAKE

Wholesale Florists
26 Boerum Place, BROOKLYN, N. Y.
Telephone 4638 Main.
Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.
Coogan Building NEW YORK
Open every Morning at Six o'clock for the Sale of Cut Flowers
Wall Space for advertising purposes to Rent
J. DONALDSON, Secretary
Mention the Florists' Exchange when writing.

JOSEPH S. FENRICH

Wholesale Florist
Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

GROWERS, ATTENTION!

Always ready to receive Fine Stock
WILLIAM H. GUNTHER
30 West 29th Street
Phone, 561 MADISON SQ. NEW YORK
Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

"VICTORY"

To be disseminated 1906. Also a complete line of choicest flowers.
ALEX. J. GUTTMAN, Wholesale Florist
52 West 29th Street, New York
Telephones, 1884-1885 Madison Square

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Commission Dealer in
CUT FLOWERS
Consignments Solicited
113 W. 30th St., New York
Telephone, 851 Madison Square

HICKS & CRAWBUCK

Wholesale Florists
And Dealers in FLORISTS' SUPPLIES
108 Livingston Street
Phone, 3660-3661 Main BROOKLYN, N. Y.

JULIUS LANG

Wholesale Florist
53 WEST 30th STREET
NEW YORK
Consignments Solicited. Telephone, 250 Madison Sq.

All Choice Cut Flowers In Season ALFRED H. LANGJAHR

55 West 28th St., New York
Telephone 3024 Madison Square.
ESTABLISHED BUY FROM ME
1891 SHIP TO TRY
Mention the Florists' Exchange when writing.

JAMES McMANUS Telephone 759 50 W. 30th St., New York
Madison Square
Beauties, Meteors, Brides and bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & HUGHES

Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Consignments Solicited.
Telephone: 3864 Madison Square

FRANK H. TRAENDLY CHARLES SCHENCK TRAENDLY & SCHENCK

Wholesale Florists
38 WEST 28th STREET, NEW YORK
AND CUT FLOWER EXCHANGE
Telephones: 798 and 799 MADISON SQUARE
CONSIGNMENTS SOLICITED
Mention the Florists' Exchange when writing.

GEORGE SALT FORD

Wholesale Florist
CONSIGNMENTS SOLICITED
46 West 29th Street, New York
TELEPHONE: 3833 MADISON SQUARE
Mention the Florists' Exchange when writing.

JOHN YOUNG

Wholesale Florist
51 W. 28th St., NEW YORK
TELEPHONE: 1905 MADISON SQUARE
Mention the Florists' Exchange when writing.

YOUNG & NUGENT

WHOLESALE FLORISTS
42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY

WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones: 2200 Madison Square 2201 Madison Square
57 West 28th Street, NEW YORK

Wholesale Prices of Cut Flowers, New York, March 24, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	12.00 to 20.00	12.00		
	" extra	8.00 to 12.00			
	" No. 1	6.00 to 8.00			
	" No. 2	3.00 to 4.00			
	" No. 3	1.00 to 2.00			
	Bride, 'Maid, fancy—spec'	8.00 to 8.00			
	extra	3.00 to 5.00			
	" No. 1	2.00 to 3.00			
	" No. 2	1.90 to 2.00			
	Golden Gate	1.00 to 6.00			
	Liberty	8.00 to 20.00			
	Meteor	1.00 to 6.00			
	Mme. Abel Chateaux	1.00 to 6.00			
	ADIANTUM	.50 to .75			
	CROWANUM	.50 to 1.50			
	ASPARAGUS	25.00 to 50.00			
	Sprenger, bunches	15.00 to 35.00			
	CALLAS	5.00 to 8.00			
	CATTLEYS	50.00 to 60.00			
	CYPRIPIDIUMS	6.00 to 10.00			
	DAISIES	.50 to 1.50			
	FREESIAS, per bunch	.10 to .25			
	LILAC, per bunch	.50 to .60			
	LILIES	3.00 to 8.00			
	Carnations				
	ini'r grades, all colors	.75 to 1.00			
	White	1.00 to 1.50			
	STANDARD VARIETIES	1.00 to 1.50			
	Red	1.00 to 1.50			
	Yel. & Var.	1.00 to 1.50			
	White	2.00 to 3.00			
	Pink	2.00 to 3.00			
	Red	2.00 to 3.00			
	Yel. & Var.	2.00 to 3.00			
	NOVELTIES	2.00 to 5.00			
	LILY OF THE VALLEY	1.00 to 2.00			
	MIONONETTE, ordinary	1.00 to 2.00			
	fancy	4.00 to 6.00			
	NARCISSUS, Paper White	1.00 to 1.50			
	Ordinary Yellow	1.00 to 3.00			
	Double Yellow	2.00 to 3.00			
	PANSIES, per dozen bunches	.50 to .60			
	ROMAN HYACINTS	1.00 to 2.00			
	SMILAX	10.00 to 15.00			
	STOCKS, per bunch	.10 to .25			
	SWEET PEAS	.50 to .75			
	TULIPS	1.00 to 3.00			
	VIOLETS	.15 to .20			
	specials	.20 to .35			

WALTER F. SHERIDAN

Wholesale Florist
Telephone, 902 Madison Square
39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
Telephone, 1998 Madison Square
JOHN I. RAYNOR, 49 West 28th St., NEW YORK

EDW. C. HORAN

55 West 28th Street
NEW YORK
Telephone, 421 Madison Square
CUT FLOWERS AT WHOLESALE
Mention the Florists' Exchange when writing.

Receiving Daily
Fine
PRES. CARNOT
KAISERINS
METEORS
BEAUTIES
Etc.

New York.

The Week's News.
Spring is here and the seed houses are in the midst of an almost unprecedented rush of business. Lucas & Boddington Company has this season already disposed of 300,000 dormant canna roots, and the demand for tuberous rooted begonias, of which the firm is handling a strain hitherto untried on this side of the Atlantic, is reaching immense proportions.
Walter F. Sheridan, wholesale florist, is in Boston officiating as judge at the exhibition of the American Rose Society. Other New Yorkers who are attending the rose show are: F. H. Traendly, J. B. Nugent and A. J. Guttman. Harry O. May, of Summit N. J., also traveled with them to Boston.

The Rhinebeck Violet Association, mentioned last week as being formed for the growing of violets, has been incorporated with a capital of \$5,000. The incorporators are: J. F. Mulreln and M. J. Sullivan, Rhinebeck, and L. S. Sudlow, of New York City. The officers of the association are: Ernest Steenburg, president; L. S. Sudlow, vice-president; J. F. Mulreln, secretary; H. Smillie, treasurer, and M. Sullivan, manager. Six houses, each 200 feet long, will be erected this Spring.

A retail florist store has been opened on the parlor floor of the premises 343 Fifth avenue opposite the Waldorf-Astoria, by The Universal Horticultural Establishment. We understand that this is to be the outlet for the growing establishment of the concern, which is located at South Orange, N. J.
Dr. N. L. Britton, director of the New York Botanical Garden, has arrived home from his trip to the Bahama Islands, together with Mrs. Britton, Dr. Howe and Dr. Millsbaugh. Some 10,000 specimens of plants were collected during the trip, among them some hitherto unknown to science.

Florists located on Long Island will be glad to learn that the Assembly Cities Committee on Tuesday, March 21, reported Miller's bill compelling the issue by the Long Island Railroad of commutation books at the rate of half a cent a mile and prohibiting a charge of more than two cents per mile for single fares.

Wm. Elliott & Sons will offer a line of rhododendrons and hardy coniferous and deciduous shrubs at their auction sale on Tuesday, March 28.

Among the visitors in town this week were: A. Fabrenwald, Philadelphia; B. Schroeter, Detroit, Mich.; F. Houghton, of Houghton & Clark, Boston, Mass.

BIRMINGHAM, ALA.—The Smith Floral Company, on First avenue, is now under the personal supervision of Theo. Smith, who has been prominent in the business in Birmingham for the past sixteen years.

SANTA CRUZ, CAL.—A. Mitting, formerly of the California Carnation Company, Loomis, Cal., is now permanently located here, on Kennon street.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of
CUT FLOWERS.
Consignments solicited. Prompt settlements



Telephone Call: 756 Madison Sq.
Mention the Florists' Exchange when writing

Our Gallery of Fine Specimens



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Plate 96

ZIZYPHUS VULGARIS

A tree not commonly found in collections. Its fruit is the Jujube of commerce. The specimen illustrated is standing on the Capitol Grounds at Washington, D. C. The slightly leaning position of the tree is caused by the great weight of its branches, and the small number of its roots; the latter being nearly always on one side, and near the surface of the ground. The leaves are shining green, rendering the tree quite attractive; and from its spiny character, the wonder is that it has never been thought of as a hedge plant in countries where it is abundant.

EASTER LILIES

IN CASES CONTAINING

Twenty=Five Plants

Shipped From Grower, \$12.50 per 100 Flowers

WELCH BROS.

15 PROVINCE ST.,

BOSTON, MASS.

Mention the Florists' Exchange when writing.

Philadelphia.

Among the Growers.

Godfrey Aschmann has, as usual, a very large assortment of Easter stock, and, on account of having three new houses, it is in better condition than ever before. We saw about 2,500 lilies, some *Harrisii*, but the majority *longiflorum*, all in good condition. The spiræas are an exceptionally fine lot this year; there are about 1,500 plants of the following varieties: *Compacta*, *Gladstone*, *multiflora*, *floribunda*, *japonica* and a new variety, *Lemoine Blondine*, which looks like a promising one. Of azaleas there are 2,300 plants on this place; of this number 1,200 are *Mme. Van der Cruyssen*. These are all well budded and in good shape to come in at the proper time. The bulbous stock is very extensive; there are 3,500 hyacinths in 4-inch pots, of such varieties as *Grand Maître*, *Gertrude*, *King of the Blues* and *La Grandesse*. There are 1,500 pots of *Tournesol* tulips, three bulbs to a pot, and over 2,000 pots of narcissus, three bulbs to a pot. Hydrangeas are represented by 700 good plants, in 6 and 7-inch pots. Another specialty always done well on this place for Easter is cinerarias; this year Mr. Aschmann has over 1,500 plants of very well colored strains. The number of Spring plants handled on this place is surprising. As an illustration, there are 10,000 moon vines, 9,000 scarlet sage, 3,000 *Begonia Vernon*, 10,000 verbenas, 15,000 geraniums, besides numerous flowering begonias and a nice lot of both white and yellow daisies.

C. Eisele has a large stock of his novelties ready for Spring trade. As usual, he has lots of begonias in several varieties, and a large lot of Summer flowering carnations. He also has a big stock of clematis. Around his houses are seen at all times lots of oldtime plants not often met with on a commercial place, such as myrtles, various varieties of *echeverias*, *camellias*, *oleanders*, etc.

DAVID RUST.

New Bedford, Mass.

News Items.

At the last meeting of the New Bedford Florists' Club, these officers were elected: President, A. B. Hathaway; vice-president, E. H. Chamberlain; secretary, S. S. Peckham; treasurer, Richard E. Nofftz; executive board, George N. Borden, Frederick Covil and James Cleary.

S. S. Peckham has now two branch offices in the city. One of them, formerly Haskell's place, has a conservatory attached to the store, which is tastefully arranged with palms and flowering plants.

James Ricketson, of Shawmut avenue, has torn down some of his greenhouses and will devote one or two small houses to violets and bedding plants.

HORTICO.

Indianapolis.

News Items.

St. Patrick's Day and its green carnation business took many by surprise. Those not prepared with several hundred green carnations certainly had cause to regret it. To be sure an innovation like the green carnation takes only with a certain class of customers, but this class was so numerous that all the green carnations in town, about a thousand, were readily sold at 10c. straight. A few unprepared florists sought energetically to dye the flowers at the last moment, but their troubles went for naught, as it takes about three hours to color the blooms properly. Wm. Billingsley exhibited a large quantity in his window and easily disposed of 500.

I. B.

WHOLESALE TRADE LIST

- ASPARAGUS PLUMOSUS SPRENGERI and DECUMBENS, 3 in. pots, 75c. per doz., \$5.00 per 100.
 - AMPELOPSIS VEITCHII, 3 in. pots, 75c. per doz., \$5.00 per 100; 4 in., \$1.50 per doz., \$10.00 per 100.
 - CLEMATIS PANICULATA, 3 in. pots, 75c. per doz.; 4 in., \$1.50 per doz., \$10.00 per 100.
 - CLEMATIS, large flowering variety, 2 years old, 5 in. pots, \$3.00 per doz.
 - DRACENA INDIVISA, 3 in., 75c. per doz., \$5.00 per 100; 4 1/2 in. pots, \$2.00 per doz., \$3.00 per doz.
 - GERANIUMS, scarlet, pink and white, 3 in. pots, 60c. per doz., \$4.00 per 100.
 - HONEYSUCKLE (Halleana), 5 in. pots, \$1.50 per doz.; \$10.00 per 100.
 - IVY, hardy, large leaves, 3 in., 75c. per doz., \$5.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
 - MOON VINES, 3 in. pots, 75c. per doz., \$5.00 per 100.
 - VINCAS, Variegated, 3 in., 75c. per doz., \$5.00 per 100; 4 1/2 in. pots, \$1.50 per doz., \$10.00 per 100.
 - MYOSOTIS, clumps from open ground, 60c. per doz.; \$4.00 per 100.
 - PANSIES, separate colors, yellow, white and blue, \$2.00 per 100.
 - POINSETTIAS, stock plants, dormant, 5 in. pots, \$1.50 per doz., \$10.00 per 100.
- Plants from 2 1/2 in. pots, \$3.00 per 100.
- Asparagus Plumosus, Comorenele, Sprengeri and Decumbens, Alyssum, Little Gem, Antirrhinum, white; Abutilon Savitzki, Ageratum, blue and white; Coleus, Verschaffeltii, Golden Belder and fancy varieties, Cobus Scandinave, Clematis Paniculate, Dracena Indivisa, Fuchsias, double and single; Feverfew, Little Gem, Geranium Mme. Sallerol (strong) and Mrs. Parker; Lobelia, dwarf blue; Nasturtium, dwarf; Petunias, double white; Phlox Drummondii, dwarf; Salvia, Scaeviera Zeylanica, Swainsonia alba, Verbena, mammoth varieties.
 - CHRYSANTHEMUMS, best standard varieties, rooted cuttings, from soil, \$2.00 per 100.
 - CARNATIONS, pot grown, per 100. Enchantress, \$4.00; Boston Market, \$2.50; Red Sport, \$6.00; Flamingo, \$6.00; The Queen, \$3.00; Mrs. Fisher, \$3.00. Strong rooted cuttings from soil, per 100. Flora Hill, Queen Louise, Scott, Joost, Estelle, Crocker, \$1.50; Crane, \$2.00; Enchantress, \$3.00.
 - CLEMATIS PANICULATA, 4 in., \$1.50 per doz.; \$10.00 per 100.

11th & Jefferson Sts.,
C. EISELE, PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

EASTER EASTER EASTER 10,000 Easter Lilies

1500 Long Stem, American Beauty, Bride and Bridesmaid Roses, Carnations, Violets, Von Slons, Daffodils, Paper Whites, Lily of the Valley, Tulips, Sweet Peas and all other flowers in season.

Ferns, Leucothoe Sprays, Galax and Asparagus.

Write for Easter prices, or send in your order; I will not overcharge you.

E. G. GILLETT, "The Wholesale Florist"

Phone Main 2747 113 East Third Street, Cincinnati, Ohio

Mention the Florists' Exchange when writing.

ARAUCARIA EXCELSA

From \$1.25 to \$2.00 each.

Kentia Belmoreana, from 50c. to \$5.00 each.
Rubber Plants, from \$6.00 per doz. up.
Cyclamen, \$3.50 per doz. up.

WM. A. BOCK,

NO. CAMBRIDGE, MASS.

Mention the Florists' Exchange when writing.

FOR SALE—BARAINS.

- Asparagus Plumosus Nanus, 3 in. \$4.00
- Ampelopsis Veitchii, 2 in. 2.00
- Suadragon (Choice), 2 in. 2.00
- Grevillea Robusta, 2 in. 2.00
- Vinea Variegata, 2 in. 2.00
- " " 3 in. 4.00
- Smilax, 2 in. \$9.00 a 1000. 1.00
- Cryptomeria Japonica, 3 in. 3.50
- " " 4 in. 5.00

Low express rates. Satisfaction guaranteed.

E. I. RAWLINGS, QUAKERTOWN, PA.

Mention the Florists' Exchange when writing.

FERNS, COCOS and KENTIAS

I make a specialty of Small Ferns for jardiniere, etc. A good variety of the right kinds. 2 1/2 in., \$3.00 per 100. Cocos and Kentias, fine for centers, 10c. ea.; \$9.00 per 100. Boston and Pierson Ferns, 2 1/2 in., \$1.00 per 100. Dracena Indivisa, 3 in., 35c. and 50c. ea.; 4 in., 10c. Geranium Mme. Sallerol, 2 1/2 in., \$2.00 per 100.

H. WESTON, HEMPSTEAD, N. Y.

Mention the Florists' Exchange when writing.

Boston Ferns

Extra fine stock, cut from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100. Kentias, Rubbers, Asparagus, Plumosus Nanus. Cash or references, please.

L. H. FOSTER, 45 King St.

DORCHESTER, MASS.

Mention the Florists' Exchange when writing.

H. BAYERSDORFER & CO.

Importers and Manufacturers of

FLORISTS' SUPPLIES

NOVELTIES for EASTER In large assortment including Stuffed Chickens, Ducks, Rabbits, Meadow Larks, and Full Size Bantam Roosters.

Twig Baskets, metal lined, several styles; Swan-Shaped Baskets; Fern Baskets, oblong, metal lined. Colored Foil.

50 to 56 North 4th Street, PHILADELPHIA, PA.

SEND FOR CATALOGUE

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EASTER PALMS, FERNS AND DECORATIVE PLANTS

Genistas, Lilacs, Imantophyllums in all sizes

AZALEAS

A large Assortment of
ARAUCARIAS, RUBBERS, PANDANUS, ARALIAS, DRACÆNAS, ASPIDISTRAS, MARANTAS, CROTONS, ETC.

Wholesale price list on application.

A. LEUTHY & CO.,

Importers and Exporters, Growers and Dealers,

Perkins Street Nurseries

ROSLINDALE, BOSTON, MASS.

Mention the Florists' Exchange when writing.

For EASTER DECORATIONS

ORDER EARLY

Wild Smilax

\$3.50 and \$7.00
per case

Laurel Festooning

5c. and 6c. per yard

Leucothoe

Sprays GREEN AND BRONZE

\$1.00 per 100

HARDY CUT
Dagger & Fancy FERNS

The Best, \$1.50 per 1000

Brilliant Green and Bronze

GALAX

\$1.50 per 1000. Discount on large orders.

HEADQUARTERS FOR ALL

Florists' Supplies

Such as WIRE DESIGNS, CUT WIRE, all kinds of LETTERS, IMMORTELLES, CYCAS LEAVES, SHEAVES OF WHEAT, RIBBONS, Corrugated and Folding BOXES of all kinds, etc. All Orders receive Prompt and Personal Attention



HENRY M. ROBINSON & CO.
8 and 11 Province Street, BOSTON, MASS.

HAVE YOU VAUGHAN & SPERRY

received one of our Cut Flower Box Price Lists? If not, write for one.
60 WABASH AVENUE CHICAGO, ILL.

N. LEGAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214
Madison Square

Stands at Cut Flower Exchange
Coogan Bldg., W. 28th Street & 34th Street Cut Flower Market.

Specialties: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves

75c. per 1000.

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Century Sprayer.

Best barrel sprayer made. Capacity and adaptability to suit all requirements. These are features: Its valves are bronze balls. Cylinder and plunger are brass. Indestructible packing rings. Large air chamber. Agitator that agitates. Its low

PRICE PLEASES
We make twenty styles sprayers. Every need specially met with Hand, Bucket, Knapsack, Power or Sprayers. Spraying catalog free. Booklet on insects and plants and fruit diseases 10c.

THE DEMENT CO., Salem, O.
Dealers: Libbey, Western Arts Chicago, Ill.

Mention the Florists' Exchange when writing.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style

The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always.

Size No.	0	1	2	3	4	5	6	7	8	9	10	11
	3x 4x20	3x 4x18	3x 4x16	3x 4x14	3x 4x12	4x 4x22	4x 4x20	4x 4x18	4x 4x16	4x 4x14	4x 4x12	4x 4x10
	\$2.00	\$1.75	\$1.50	\$1.25	\$1.00	\$1.50	\$1.25	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00

Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.

THE LIVINGSTON SEED CO., Box 104, Columbus, O.

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Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, Berlin, N.Y.

Samples free. For sale by dealers.

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A. J. FELLOURIS

Wholesale and Retail Dealer in all kinds of

Evergreens Galax Bronze or Green
\$1.00 Per 1000

FERNS, Fancy, \$1.50 per 1000
Dagger, \$1.00 per 1000

468 Sixth Ave., New York

BETWEEN 28th and 29th STREETS

TELEPHONE 4008 MADISON SQUARE

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FERNS

FANCY, \$1.50 per 1000. DAGGER, \$1.25 per 1000.
GALAX, brilliant bronze or green, 75c. per 1000; \$1.50 per case of 10,000.

Laurel Festooning, hand-made, full size, 4c. and 8c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle.

Southern Wild Smilax, \$5.50 per 50 lb. case.

Laurel Wreaths and Prince's Pine Wreaths

Made all sizes and prices.

Prince's Pine, by the lb. and made into roping. Tell us your wants and we will name you prices.

MILLINGTON, MASS.
Telegraph Office: New Salem, Mass.

Mention the Florists' Exchange when writing.

Sphagnum Moss and Cedar Poles

Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 1/2 in. to 5 in. at butt, any length required.

H. R. AKERS, CHATSWORTH, N. J.

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"Standard for Quality"

GALAX LEAVES, LEUCOTHOE SPRAYS GREEN SHEET MOSS

WM. G. SMITH, Marion, N.C.

Sold in New York by L. J. Kreshover; Philadelphia, S. S. Pennek; Buffalo, Wm. F. Kasting; Albany, H. L. Menard; Pittsburg, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Rennie & Pico.

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CYCAS LEAVES

The very best that have ever been sold in this market, also medium qualities for sale at very moderate prices.

L. WERTHEIMBER & CO.,

Foreign & Domestic Specialties, 39 Barclay St., New York.

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SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$8.00; 25-lb. case, \$3.25.

GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.

Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.

All Kinds of Florists' Supplies.

L. J. Kreshover, 112 West 27th Street, Tel. 697 Madison Sq. New York

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WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000.

DAGGER FERNS, \$1.60 per 1000.

38-40 Miami Ave., Detroit, Mich.

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BOOKS

GARDENER'S ASSISTANT, \$15.00

Write for Prospectus

VIOLET CULTURE, 1.50

THE HEATHER, 1.50

AMERICAN CARNATION, 3.50

PLANT CULTURE, 1.00

RESIDENTIAL SITES, 2.50

TELEGRAPH CODE, 2.50

THE FLORISTS' EXCHANGE, 2 Duane St., New York

Washington, D. C.

News of the Week.

By direction of President Roosevelt, the excavation work in connection with the construction of the new building for the Department of Agriculture has been temporarily suspended. This action by the President was taken pending settlement of the question that has arisen over the proper location of the structure. The matter has been placed in the hands of the consultative commission on the location and character of design of Government buildings in the District, recently appointed by the President, of which Bernard R. Green, superintendent of the Congressional Library is chairman. Until the commission submits a report, the work of excavation will be suspended.

Under the original plan, the new building was to be erected immediately in the rear of the present department building, and so situated that the main approach to the center portion could be by the driveway leading into the Mall from Thirteenth street. As the driveway has a diagonal course, the eastern wing of the building, if constructed in the position originally intended, would extend to within a few feet of the building line on Twelfth street, while the western wing would be all of 160 feet from the building line of Fourteenth street. The incongruous appearance of a structure situated at such an unequal distance from the two streets was brought to the attention of the President, and the question arose as to whether it would not be better, from an architectural point of view, to have the building stand equidistant from the two streets mentioned, even though the change necessitated the sacrifice of the handsome row of salisburia trees, along the driveway, in order to bring that means of approach in line with the new location. President Roosevelt called Secretary Wilson into consultation on the matter. The latter, it is understood, favored the construction of the building as already planned and under way, in order that the beauty of the driveway leading to the front entrance might be preserved. This consultation occurred prior to the breaking of ground, and the President, desiring to follow the wishes of Secretary Wilson, issued instructions accordingly. The excavation work was immediately begun and was almost completed for the two wings, when the importance of locating the structure at an equal distance from both streets was again urged upon the President. As a result, he issued the order instructing the contractors to stop operations and placed the matter in the hands of the consultative commission for final decision, as stated above. To locate the structure squarely between the two streets would entail only a comparatively small amount of excavating on the Fourteenth street side.

St. Patrick's Day brought a good deal of business in the sales of shamrocks, which were disposed of in almost every style of receptacle. Gude Brothers hit upon quite an original idea; it was a clay pipe filled with shamrock and a harp in gold gilt on the bowl, tied with a piece of green ribbon. This proved to be quite an attraction, and, judging from the number sold, was very much appreciated by the members of the A. O. H. Geo. Cook had a window, the base of which was filled with shamrock with a harp standing above it. This seemed to appeal to the sentiments of the fashionable element on Connecticut avenue, who lay claim to being descendants of that ancient and historic race which has played such a prominent part in the history of nations.

There was a very elaborate decoration on at Rancher's this week at the fair for the benefit of the Newsboys' Home. Booths representing all nations were presided over by many of the prominent society people and members of the diplomatic corps. Most of the florists contributed gratis their quota of plants and cut flowers, which no doubt assisted in making the fair a success. M. C.

HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

Mention the Florists' Exchange when writing.

Special facilities for handling large orders. Write, Wire or Phone
E. A. BEAVEN, Evergreen, Alabama

St. Louis.

News Notes.

The next meeting of the Florists' Club will be an important one. Talks on Easter stock, report of the executive committee and the adoption of the new by-laws are included in the program. President Juengel expects every member to be present.

The executive committee for the Fall Flower Show met at Miller's place on Monday last to prepare a preliminary list.

A. Krug, florist, Alton, Ill., has been appointed by the Civic Improvement League to superintend the work of making Alton beautiful floriculturally. Every vacant spot in the city will be laid out with plants of some kind.

Slater & Co. have opened up their new place at 14th street and St. Louis avenue. This store was recently vacated by Adolph Brix.

Theo. Miller reports that he is very busy now with outdoor work of all kind.

Fred. Meinhardt reports busy times now in cemetery work, which is one of his specialties.

C. C. Sanders has been very busy of late with planting of trees, shrubs and other hardy outdoor stock.

Visitors last week were: Jos. Roelker of New York, and Charles Ford, of Philadelphia.

C. Foreman, a prominent wholesale and retail grower of cut flowers from Louisiana, Mo., made the rounds of the trade on Tuesday.

The florist bowlers rolled three games on Monday night. Beneke was high man, with 548; Fred. Weber, second, 446. The others were in poor form. Otto Koenig was a visitor and rolled with the team. ST. PATRICK.

Cleveland, O.

News of the Week.

St. Patrick's Day was a winner here. The day was a fine one; and almost every one had a green carnation as a boutonniere. A number of amusing rumors were afloat as to how the color was obtained, one being that the seed was soaked in some chemical. The little Medicago lupulina was greatly in evidence.

Fred Moritz has purchased the stock of Arthur Doeble, 62 Edmunds street. Mrs. Doeble will retain the lease of the greenhouses until the Fall of 1906. Mr. Moritz will take possession April 1.

The value put on the stock, etc., of the Cleveland Floral Company, by the appraisers, was \$2,700, not \$27, as printed formerly.

Miss Jane Eadie is sojourning in St. Augustine, Fla.; she will return in a couple of weeks.

Wm. Gaffney, who formerly worked for W. H. Beaumont, and later was in business in the Lennox Building, has gone into business with Wm. A. Nun, 2505 Superior street. It is rather a unique partnership, Mr. Gaffney being a florist and Mr. Nun an undertaker. O. G.

Pittsburg.

News of the Week.

The weather was fine on St. Patrick's Day, which helped the sale of flowers. Since then it has been raining almost continuously. Our rivers are running over their banks, causing considerable damage to many industries. W. C. Beckert, the Allegheny seedsman, had his cellar filled with water and had to remove all his stock to upper floors, just at his busiest time of the year. Mr. Beckert is absent from home; not being in the best of health, he took a trip to Bermuda.

A new flower store will be opened up in the Arcade and will soon be completed.

Thos. Ulam & Co.'s store on Fifth avenue has been closed by his creditors. Mr. Ulam has the sympathy of his many friends, and no doubt will soon be on his feet again.

E. C. REINEMAN.

Established 1868

Incorporated 1894

JOHN C. MONINGER CO.

All-Heart Cypress Greenhouse Construction Lumber

Our material is guaranteed to be strictly first-class, absolutely free of sap and defects. We carry constantly a large and complete stock of open air dried lumber. This, with our unexcelled facilities for manufacturing, enables us to make prompt shipments.

On Hot-Bed Sash we are leaders. Our Sash are strong and well made; tenons are white leaded. Standard sizes carried in stock.

Our long experience, large and extensive trade, place us in a position to furnish strictly up-to-date material.

During the year 1904 we furnished material for 1,250,000 feet of glass. It will pay you to get our estimate and figures if you contemplate building.

Our New 1905 Catalog and Question Blank Sent Free

JOHN C. MONINGER CO., CHICAGO

Office, 111 E. Blackhawk St.

Factory, 412-422 Hawthorne Ave.

Lumber Yards, 81-41 Smith Ave.

HARDY CUT FERNS



Fancy and Dagger, \$1.50 per 1000; discount on large orders. Sparganium Moss, first quality, 60c per bbl.; second quality, 30c per bbl. Laurel Koping, hand made and well put together, 4c per yd. Spruce Bush, for cemetery use. Elm and Maple Trees, for planting. Bouquet Green, for Easter. Cash with all orders or no attention paid.

Hinsdale Thomas Collins, Mass.

Mention the Florists' Exchange when writing.

A. L. FORTUNES



Wholesale and Retail Dealer in DAGGER FERNS and GALAX LEAVES. Bronze or Green Galax, 75c per 1000; \$6.50 per case. SPECIAL, Our Dagger Ferns, best quality, selected No. 1, \$1.00 per 1000, full count.

ONCE TRIED ALWAYS PREFERRED 431 State Street, NEW HAVEN, CONN.

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SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

GIBLIN & CO., Utica, N. Y.

Mention the Florists' Exchange when writing.

CEMENT BENCHES

NIAGARA CEMENT & CONCRETE CO. NORTH TONAWANDA, N. Y.

Mention the Florists' Exchange when writing.



Evans Improved Challenge

Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGER the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO. RICHMOND, IND.

Mention the Florists' Exchange when writing.



Mention the Florists' Exchange when writing.

National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 666 John. HARRIS H. HAYDEN (Late Manager of the Nepera Chemical Company), President EDWARD MOK, WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer

56 PINE ST., Wallace Bldg., N. Y. CITY (Rooms 611-612)

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All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

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This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."

Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION

Mention the Florists' Exchange when writing. Mention the Florists' Exchange when writing.

NICOTICIDE KILLS

Green Fly



Mr. J. A. Budlong, Chicago, March 11, 1904, says:

"We have been using Nicoticide on our whole place now for some time and find it the most satisfactory fumigant we have ever used. We heat entirely by steam, and paint it on the pipes when hot. This application works well and is certainly very effectual."

Thrips



THE TOBACCO WAREHOUSING & TRADING CO., LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

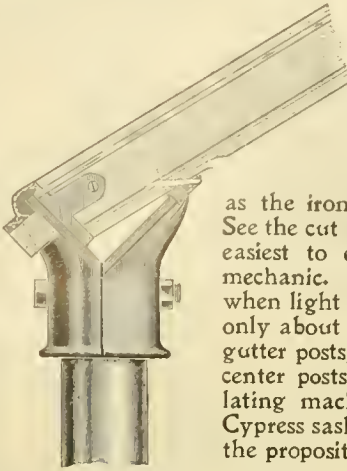
REED & KELLER

122 W. 25th St., NEW YORK FLORISTS' SUPPLIES Galax Leaves and a Decorative Greens. Importers and Manufacturers of New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

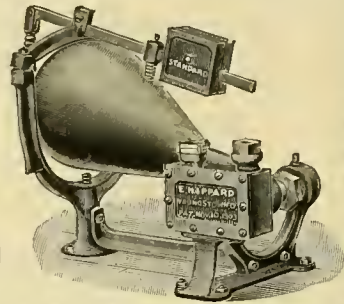
SCRANTON FLORIST SUPPLY COMPANY

201 North Seventh Ave. SCRANTON, PA. Importers and Manufacturers of FRESH GALAX and LEUCOTHOE ALL FLORISTS' SUPPLIES SEND FOR CATALOGUE Mention the Florists' Exchange when writing.

Iron Greenhouses



THE DUPLEX GUTTER and the DUPLEX EAVES have solved the question of how to build up-to-date greenhouses as durable as the iron frame houses at high prices, and nearly as cheap as wooden houses. See the cut that represents the DUPLEX EAVES, the most durable, strongest and easiest to erect. Any common laborer can set them as perfect as an expert mechanic. It is perfection in construction. No ice or snow to darken your houses when light means money. Positively no shade from the Duplex Eaves. Costs only about \$2.00 per foot for a 20-foot house, including Duplex Gutters and Eaves, gutter posts, purlines with posts, tees, and floor plates, center posts, with plates and bases, Standard Ventilating machines, complete with double strong pipe, Cypress sash bars and ventilating sash. Investigate the proposition, and convince yourself.



Also note the Simplest Return Steam Trap Made. Just what a Florist needs and a coal dealer condemns.

Catalogues and Circulars Free

E. HIPPARD, YOUNGSTOWN, OHIO

Mention the Florists' Exchange when writing.

GLASS For GREENHOUSES, GRAPERIES, HOTBEDS CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.
N. COWEN'S SON, 392-94 W. Broadway, NEW YORK
Mention the Florists' Exchange when writing.

STANDARD FLOWER POT'S

THE WHILLDIN POTTERY COMPANY

PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS
DILLER, CASKEY & CO. Successors to JENNINGS BROS.
S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

EUREKA GREENHOUSES

Send for catalogue Get the best Greenhouse Material, Composition Posts
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.
Mention the Florists' Exchange when writing.

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT

WIDELY IMITATED BUT NEVER EQUALED
UNIFORM AND ALWAYS EFFECTIVE

DONT ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.50 PER CASE OF TWELVE BOXES.

NICOTINE MFG. CO. ST. LOUIS, MO.

Mention the Florists' Exchange when writing.

SHEEP MANURE

Pulverized. Free from all Adulteration
In Bags, \$18.00 per Ton
Special price on car load lots in bulk

ROBERT SIMPSON, Clifton, N. J.
Mention the Florists' Exchange when writing.

Clipper Lawn Mower Co. DIXON, ILL.



The MOWER that will Kill all the Weeds in your Lawn. If you keep the weeds cut as they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealers for them. If they have not got them, below is the price: No. 1—12-in. Mower, \$5; No. 2—15-in. Mower, \$9; No. 3—18-in. Mower, \$7; No. 4—21-in. Mower, \$8. Send draft, money order or reg. letter
Mention the Florists' Exchange when writing.

NICO-FUME

TOBACCO-PAPER INSECTICIDE BY FAR THE BEST.



NO FOLDING IS REQUIRED JUST HANG EACH SHEET FROM THE HOLE PUNCHED IN ONE END, THEN LIGHT LOWER END, BLOW OUT FLAME AND LET THE SHEET BURN
NO 1 LIGHTING (SHEET HUNG FROM PLANT STICK)
NO 2 SMOOKING

FOR SALE BY SEEDSMEN
24 Sheets, 75c.; 144 Sheets, \$3.50;
288 Sheets, \$6.50 (only 2 1/2 c. each).
PAKED IN FRICTION-TOP TINS,
Preventing Loss by Evaporation
Mfg. by Kentucky Tobacco Product Co.
LOUISVILLE, KY.
Mention the Florists' Exchange when writing.

San Francisco.

News Items.
Regarding the item in last week's issue relating to the purchase by Rossi Bros. of the violet gardens owned for years by Mr. Frank, of the Frank & Parodi Company, the name of P. Rosaia of Rosaia & Fregosi Company, should be substituted for that of Mr. Frank.

Miss Lucille Wollenberg, who for several years in this city has done some notably tasty floral decorative work for swell occasions, has opened as a florist and decorator at 1150 Geary street, the stand conducted heretofore for several years, until the first of this month, by Miss Hilda Fechelmer.

Julius Eppstein, proprietor of the Geary street store, that trades in the name of "The California Florist," has crossed the street, directly opposite his store, to the St. Francis Hotel, and within this "Waldorf-Astoria" of San Francisco has opened a branch of his main business.

There is missed from the local trade the pleasing personality of J. W. Shanahan, head of the Shanahan Florist Company. He has fallen heir to a lucrative rooming house business in Sacramento, where he is now located. His florist business in San Francisco is being conducted by Mrs. Shanahan, her chief of staff being T. J. Thomson, a practical florist, recently from his father's gardens in Santa Cruz.

No Spring flower show will be held this year by the Pacific Coast Horticultural Society. Also, at the current month's meeting, held this week, of the California State Floral Society, it was voted not to have the usual annual Spring flower show, owing to difficulty in getting a manager for the occasion. It was unanimously resolved, however, that the society give an outing in the near future to Redwood Canyon, in Marin County. The following ticket, to which there is no opposition, was nominated, and the election will be held next month: President, Professor Emory Smith; first and second vice-presidents, Mrs. L. D. Hodgkins and Mrs. W. S. Chandler; recording secretary, Mrs. Henry P. Tricou; corresponding secretary, Miss E. S. Ryder; treasurer and poetess, Mrs. Grace Hibbard. ALVIN.

STOCKTON, CAL.—The Gardeners' Association which is composed of Italians in this vicinity, have purchased over a quarter of a block on Weber Point, and will at once establish a free market where all of the members can dispose of their produce from 1 o'clock a. m. until 7 o'clock a. m., when the remainder will be turned over to the representatives in the stalls and offered for sale. For two years the gardeners have been making an effort to build a market here to conduct their business on new lines, but for a time there was quite an opposition to this movement. This property cost \$19,000, and it is estimated that the market, inclusive of the land, will reach about \$50,000.

ZANESVILLE, O.—John D. Imlay will erect a new three-story building, with greenhouse in the rear. The first floor will be employed as a salesroom by Mr. Imlay.

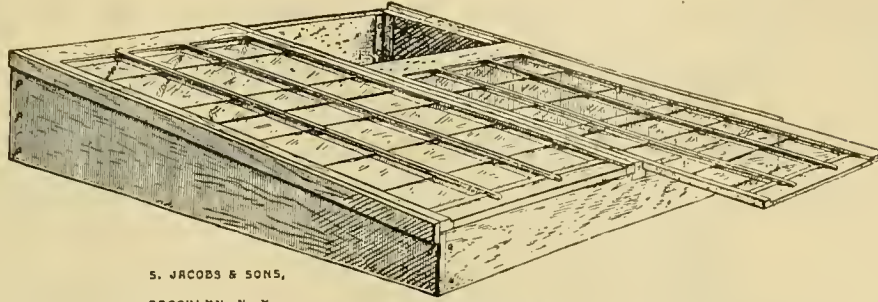
HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
10 Desbrosses St., New York
Mention the Florists' Exchange when writing.



MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St., NEW YORK
Mention the Florists' Exchange when writing.
THE AMERICAN CARNATION
Price, \$3.50
A. T. DE LA MARE PTG. & PUB. CO. LTD.
2 TO 8 DUANE STREET, NEW YORK

Natural Gas Made
**GREENHOUSE
GLASS**



S. JACOBS & SONS,
BROOKLYN, N. Y.

Twin Sectional
BOILERS

Special
**GREENHOUSE
PUTTY**
SEAL TIGHT LIQUID
PUTTY

MANUFACTURERS OF

CLEAR GULF CYPRESS
Greenhouse Material

**PIPE
FITTINGS**
Ventilating
Apparatus

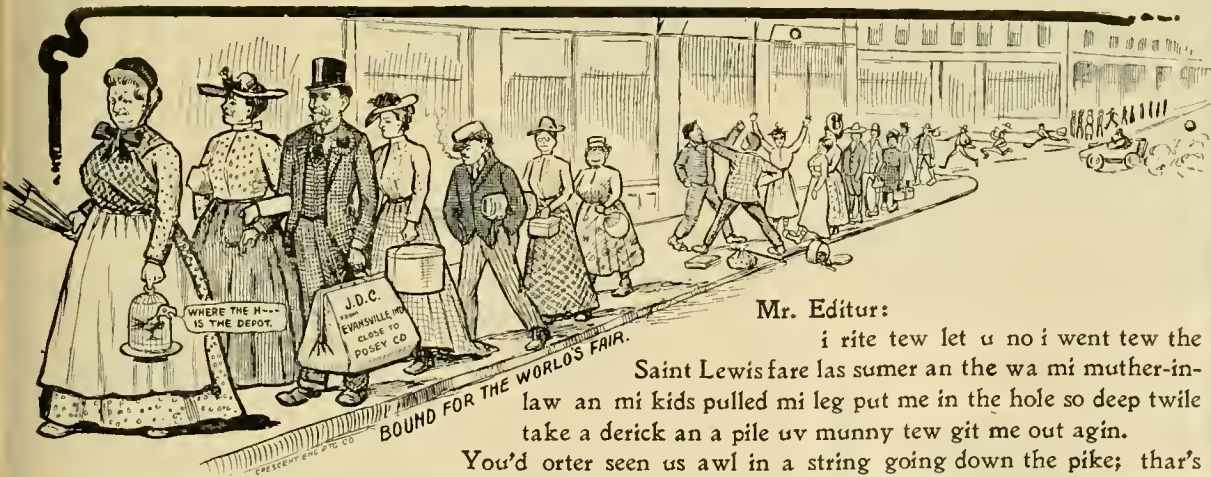
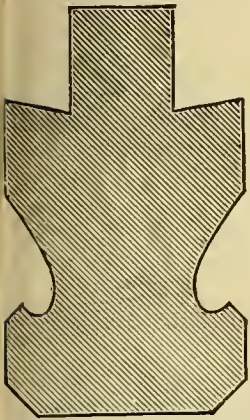
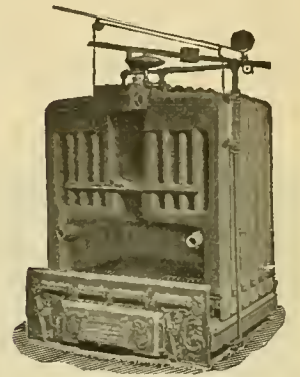
Hot=Bed Sash

We Furnish Everything for Building. Catalogues on Application

S. JACOBS & SONS

1365 to 1379 Flushing Ave., BROOKLYN, N.Y.

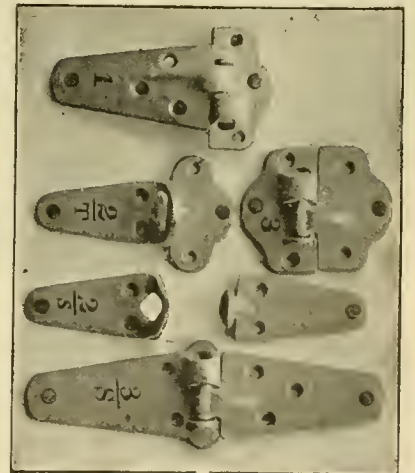
Mention the Florists' Exchange when writing.



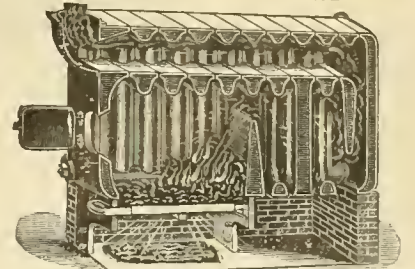
Mr. Editor:

i rite tew let u no i went tew the
Saint Lewis fare las sumer an the wa mi muther-in-
law an mi kids pulled mi leg put me in the hole so deep twile
take a derick an a pile uv munny tew git me out agin.

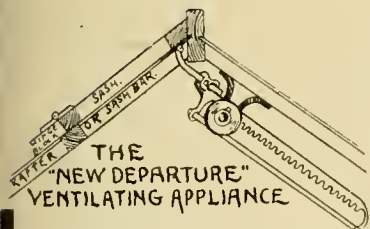
You'd orter seen us awl in a string going down the pike; thar's
ware i droped mi wad an near lost mi religen tew. mi mother-in-law,
"whitch are a widder," got mashed on a clown chap wot hollered in
frunt uv a show place. "lans sake alive, aint he tew cute for anathing,"
ses she tew me, an I had a time of it a getin her awa frum thar, an
then she went up in the farris wheel, an i wished shed never kum down,
fur she'l never go so hi agin, livin er dead. i had nuf trouble with mi
kids tew drive me tew drink, an thats how i kum tew see the squire, who
said \$5.00 and cost; i lost a lot uv the kids an never seed em sinst. mi
oldest darter, which hed got kinder discouraged went an married a filla-



THIS IZ MI EVERLASTIN HINGE



THIS IZ MI KOLE SAVIN BILER



pena soger, dod eat the messly cuss, an she seams as tickled over im as if he wus sumthin. Jerramia (we
calls im Jerry fur short), mi 13th kid, got stuck on a gal in the Eskemo village and kaws we woudn't
let im marri her an jine the tribe, he has lived all this winter in a snow house he bilt in our back yard
an wares a dog skin koat an eats taller candles an thinks he is a Kam-skat-kan. i think ile hav tew keep im in kold storage this summer.
i am sorry i went tew the fare, have had nuthin but trubble ever sinst till im only fit fur the bug house, an now as i am so muchly in det, i
wish you'd tell awl mi frenz wat didn't go to St. Lewis las summer tew try an help me out. i don't ax them wat went tew the fare to help
me fur i no they are straped like me, so tel awl the florists to send tew me fur a kat-a-log uv mi KOLE SAVIN BOILERS, NEW DEPAR-
TURE VENTILATING KONTRAPTIONS and NEVER-RUST HINGES.

Mi name is **J. D. CARMODY**, an i live in **Evansville, Indiana**, whitch is near Posey Kounty



OUR WATER PUMPING ENGINES

IN SIZES TO
MEET YOUR REQUIREMENTS

Using gas or gasoline as fuel, will pump direct into pipe line without the use of elevated storage or pressure tanks

"Just Like the City Water Works"

SIMPLE, RELIABLE AND EASY TO OPERATE, Our Catalogue and further information on request
Agencies in the Principal Cities

THE STANDARD PUMP AND ENGINE CO., CLEVELAND, OHIO

75,000 Square Feet Glass Surface

The above figures represent commercial heating contracts already signed for the season of 1905.

A SAMPLE COPY OF SOME OF THE LETTERS ON FILE AT MY OFFICE:

LYONS FARMS, N. J., Feb. 1st, 1905.
Mr. Wm. Lutton. Dear Sir:—I wish to state that I am well pleased with the heating of the two new carnation houses, that you installed for me last summer, the boiler works splendid, and is all that it is represented to be, I shall take great pleasure in recommending you to any persons contemplating heating work.
Yours very truly,
Wm. G. MULLER.

An opportunity to estimate on your proposed heating or repair work will be to your interest.

WM. H. LUTTON, Telephone 174 J. Bergen, West Side Ave. Station, Jersey City, N. J.
Eastern Agent for FURMAN and KROESCHELL BOILERS.

Mention the Florists' Exchange when writing.

There is one place where you can be sure of getting THE BEST

GREENHOUSE MATERIAL

That is from the
FOLEY MANUFACTURING CO.
CHICAGO
471 W. 22ND ST.
We also make Hot-bed sash. Illustrated catalogue sent free!

Mention the Florists' Exchange when writing.

GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

Mention the Florists' Exchange when writing.

KING CONSTRUCTION COMPANY

North Tonawanda, N. Y., and Toronto, Canada.

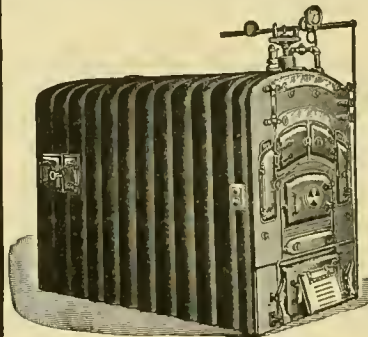
New Greenhouse Catalogue ready for distribution. Send for it.

Mention the Florists' Exchange when writing.

"Entirely Satisfactory"

That's what prominent Florists say of the celebrated

Furman Boilers



Particularly well adapted for

GREENHOUSE HEATING

Write us for Illustrated Catalogue and Special Florists' Prices. Address

The HERENDEN MFG. CO.

Dept. F. GENEVA, N. Y.

Mention the Florists' Exchange when writing.

"Absolutely Safe and Reliable. Ask your Friends."

TWO REASONS

for the excellence of

CALDWELL TANKS AND TOWERS



are: The tanks are constructed solely of selected Red Gulf Cypress and will not leak, twist or expand. The towers are built by expert workmen using the best materials only, and there is no danger of collapse. The water service rendered to florists by these outfits is unsurpassed. Can you afford to be without it?

Our illustrated catalogue and price list give other reasons.

W. E. Caldwell Co.
LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

Boston.

News Items.

There was a general discussion on vegetables at the meeting of the Massachusetts Horticultural Society on Saturday. The subject was introduced by W. W. Rawson, of Arlington, and many of the leading vegetable growers in this locality took part.

Wm. K. Wood, of Newton, is the writer of the interesting articles on floriculture which have recently appeared in the Sunday Globe. Last week's issue gave a brief history and description of the meeting of the American Rose Society.

The Lord & Burnham Company and Col. Charles Pfaff silver cups, special prizes at the rose show, are on exhibition in the window of Galvin's Tremont Street Store.

Henry M. Robinson & Co. are doing a large business in fancy and dagger ferns; they have shipped several large orders to the West this week.

Wm. T. Good, father of William Good, of Galvins, died March 18.

J. W. Newman, who formerly conducted a florist business on Washington street, has made an assignment.

Welch Bros. will handle a large number of Easter lilies put up in cases of twenty-five plants each.

Henry M. Robinson and F. H. Houghton were in New York this week.
J. W. DUNCAN.

Newport, R. I.

Trade Conditions.

Every weather condition has been against business; the last four days have seen a steady rain, and before that it was steadily cold. Little or no trade has been the result. The rain is doing much good, however, in taking the ice from the streets and the frost from the ground; just as I send these notes to you it has turned to snow and the ground is covered thickly.

James J. Mulry, New York, was here the past week representing two firms, Messrs. Reed & Keller and Lion & Wertheimer. Mr. Bryant, of A. H. Hews & Co., North Cambridge, Mass., called upon the trade here last week.

John Robert Clarke, recently seedman for The George A. Weaver Company here, has opened an office at 33 Dale street, Roxbury (Boston), Mass., where Mr. Clarke will give his attention to landscape gardening.

The seedmen in past years have, at the beginning of the season, established among themselves a minimum price for grass seeds; but this season they have decided that each man make his own figures.

Vaughan's Seed Store has been represented here for some days past by William Neil Campbell. Their three novelties are very popular, namely: Baby Rambler rose, King Humbert canna and Gladiolus Princeps.

Henry C. Anthony, seed grower of Portsmouth, R. I., was in the city the past week and reports trade as very good in a wholesale way and starting well among the large market gardeners.
F. W.

Baltimore.

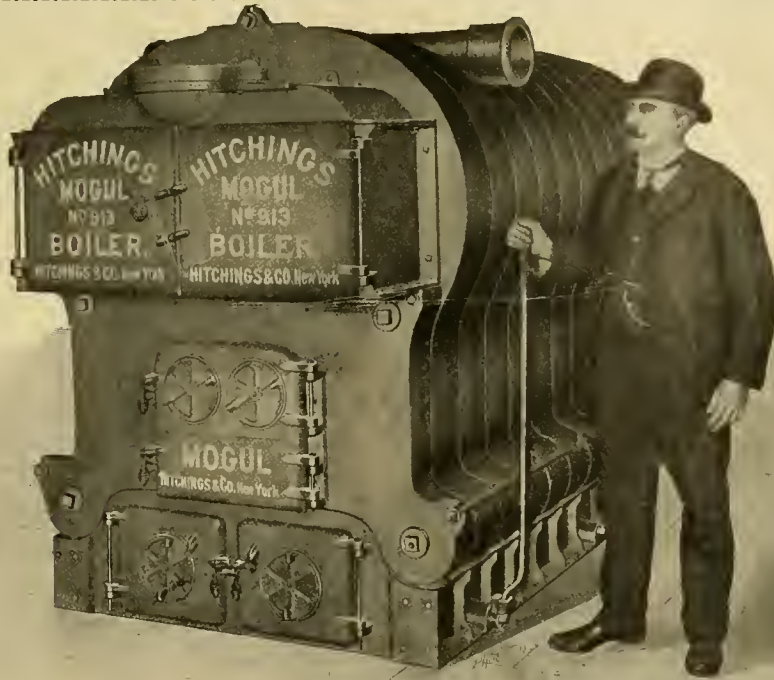
News Notes.

C. E. Smith & Co., 121 N. Liberty street, have finished improvements in their store, having put in an entire new front and a fine conservatory in the rear connecting with the store.

G. V. Smith has sold his property at Baltimore and Lloyd streets and will discontinue business at said place about July 1.
JOHN J. PERRY.

Greenhouses
Conservatories
Graperies

Boilers for
Heating
Greenhouses,
Dwellings, Etc.



Hot Bed Sash

Sash Operating
Devices for
Factories, Etc.

Plans and
Estimates Cheer-
fully Furnished

Send for our
Fully Illustrated
Catalogues

OUR NEW MOGUL BOILER FOR HOT WATER OR STEAM

HITCHINGS & COMPANY

Established 1844

Horticultural Architects and Builders

Main Office, 233 Mercer Street, NEW YORK

Mention the Florists' Exchange when writing.

819 Tremont Building, BOSTON

Just in time to write for our prices

NEW AND SECOND-HAND

BUILDING MATERIAL for GREENHOUSES

Natural Gas Made GLASS, New Sectional BOILERS, Wrought and Cast Iron PIPE
Guaranteed LIQUID PUTTY, Hot-Bed and Ventilating SASH, WHITE LEAD, LINSEED
OIL, PIPE FITTINGS, TOOLS, GARDEN HOSE

SOME OF OUR PRICES

New Glass 50 sq. ft. to the Box

10x12 B, Single	\$1.90 per box	12x20—14x20—14x18 B, Double	2.85 per box
12x12 B, Single	2.00 per box	16x24 B, Double	3.10 per box
12x16 B, Single	2.10 per box	16x20 B, Double	3.10 per box
10x12 B, Double	2.65 per box	New 2-inch Standard Pipe, long lengths	8 3/4 cts. per foot
12x12 B, Double	2.65 per box	Second-Hand 2-inch Pipe, as good as new, all 20 feet long, with couplings and new threads	7 1/4 cts. per foot
12x14—14x14—16x16 B, Double	2.85 per box		
12x16—14x16—16x18 B, Double	2.85 per box		

PRICES SUBJECT TO CHANGE

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue BROOKLYN, N. Y.

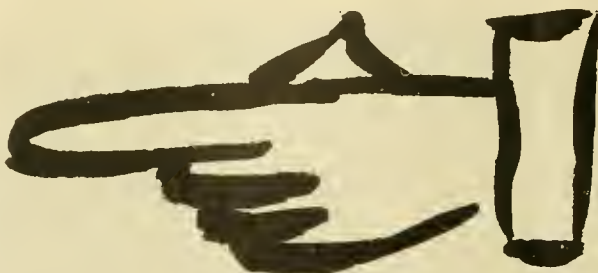
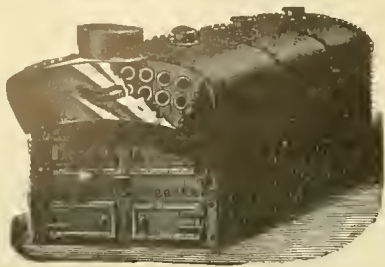
References—Broadway Bank of Brooklyn, Bradstreet's or Dunn's
Mention the Florists' Exchange when writing.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



ORDER NOW

*Prices will be higher later on
Place your order now and save money.
Will ship Boiler when wanted; you do
not pay until Boiler is shipped
Write for information and prices*

**CASPER LIMBACH
GREENHOUSE GLASS**

A SPECIALTY

Window Glass. Painters' Supplies.

32 Washington Ave., Pittsburg, Pa.
31st Ward,

Mention the Florists' Exchange when writing.

Holds Glass Firmly
See the Point **NE**
PEERLESS
Glasing Panels are the best.
No rights or lefts. Box of
1,000 points 76 cts. postpaid.
HENRY A. DREER,
114 Chestnut St., Phila., Pa.

MENTION THE FLORISTS' EXCHANGE WHEN WRITING.

GREENHOUSES.
MATERIAL FURNISHED
AND
MEN TO SUPERINTEND
ERECTION IF DESIRED.
CYPRESS SASH BARS
ANY LENGTH UP TO 32 FT. OR LONGER.
THE A. T. STEARNS LUMBER CO.,
NERONSET, BOSTON, MASS.

**GEO. M. GARLAND
Iron Gutters and Posts**
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice
off your glass and prevent breakage.
DESPLAINES, ILL.

A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.
Mention the Florists' Exchange when writing.

Utica.
News Items.
Frank McGowan is cutting some of the finest sweet peas that have ever been grown here; also violets. These two flowers are the only ones he grows. He is getting ready to occupy the greenhouses formerly owned by F. E. Shaw, having bought them. He will make extensive repairs and grow a general stock, but the leaders will be chrysanthemums and sweet peas, he surely does well. His location is good and we predict he will do a big business.
W. A. Rowlands, of Whitesboro, is bringing in fine Mrs. Lawson carnations. He says that he does not see that Lawson is going back any with him, but seems better, if anything. He will grow a big lot of White Lawson and also Variegated Lawson next year. He has a big block of Red Lawson, and likes it very well.
There has been a good lot of funeral work for the past two weeks. Trade in general is very good, sweet peas and violets taking the lead. Roses and carnations are plentiful. Bulbous stock does not move very fast. The Dutchmen are on the warpath, and oh! how they do stick, but I am afraid they do not all land a sale.
Robert Boyce has been on the sick list; but, I think, is better. His place is looking well.
S. Hakes, of Ilion, was in town last week looking for flowers. He had a big lot of funeral work. Mr. Schesch, of Ilion, was also a visitor.
Peter Crowe is cutting 5,000 Adiantum Croweanum fronds every day now, and says he could sell twice that number. He leaves on March 22 for Boston to act as judge at the rose show there. He will take his good wife along. We wish them a pleasant journey. I think he intends to call on the New York florists, and will be gone about two weeks.

At the next meeting of the Utica Florists' Club nominations of officers for next year will take place. The meeting will be held April 6. There will be also some kind of an entertainment and a lunch.
QUIZ.
7. Mighty Cheap for Its Excellence.
Enclosed find one dollar and eighty cents, for which send me The Florists' Exchange for one year and nine and one-half months—to December 31, 1906, and mighty cheap for so excellent a paper.
N. J. CAPT. JOHN J. PHELPS,
Red Towers Greenhouses.

THE PIERSON-SEFTON CO.
Horticultural Architects and Builders
West Side Ave., So.
JERSEY CITY, N. J.

Pierson Boilers
For Steam and Water
are unsurpassed for efficiency and economy

Messrs. Righter & Barton, Madison, N. J., write: "August 5, 1904. The two 'Pierson' sectional hot water boilers installed for our new houses one year ago gave exceptional satisfaction during the past winter, the most severe for many years, easily fulfilling what was expected of them, at the same time proving to be economical."
"We found them very easy to manage, that they reposed promptly and heated the water in short time, thus giving splendid control of temperature in houses when sudden drop took place outside."

This is only One of Many
**WE ALSO MANUFACTURE AND SUPPLY
FITTINGS, VALVES, PIPE AND EVERYTHING FOR HEATING**
Write for Catalogue and Prices

Mention the Florists' Exchange when writing.

Louisiana Cypress and Washington Red Cedar Greenhouse Material

Our steadily increasing trade is the endorsement of our policy.
Invariably the best grades at reasonable prices, with prompt and obliging service.

A. DIETSCH CO., 615-621 Sheffield St., CHICAGO, ILL.

Mention the Florists' Exchange when writing.

THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 13

NEW YORK, APRIL 1, 1905

One Dollar Per Year

CARNATIONS STRONG ROOTED CUTTINGS

READY FOR IMMEDIATE DELIVERY except where noted
WE OFFER FIRST-CLASS STOCK OF THE FINEST VARIETIES

VARIEGATED LAWSON This variety, which we are introducing this season we are sure will prove to be the very best variegated sort. Pure Ivory white, with delicate carmine penciling. Mr. W. N. Craig, an authority on everything pertaining to horticulture, says that he knows that this variety will out-bloom the favorite Mrs. M. A. Patten three to one. It has the Lawson habit and stem, and is bound to give satisfaction. \$12.00 per 100; \$100.00 per 1000.

RED LAWSON A bright red sport of Lawson that is bound to be popular, and will be grown where Lawson is popular. \$10.00 per 100; \$75.00 per 1000.

CARDINAL Bright cardinal, or crimson-scarlet. Won first prize for best 100 scarlet, first prize for best 50 carnations, any color, first prize for best 50 scarlet seedlings, Chicago. \$12.00 per 100; \$100.00 per 1000.

FIANCEE (April delivery.) The Queen of pink carnations; in a class by itself. Magnificent flowers, strictly fancy in every respect. \$12.00 per 100; \$100.00 per 1000.

FRED. BURKI Recommended as an extra free-blooming white variety and a claimant for popular favor. \$12.00 per 100; \$100.00 per 1000.

WHITE LAWSON We consider this variety, which we introduced last season, the most profitable white carnation ever sent out. We think it will outbloom any other white two to one. It has given great satisfaction. When the flowers are left on the plants until fully developed they are much larger than Mrs. Thos. W. Lawson. We believe this will occupy among white carnations the same place that Mrs. Thos. W. Lawson does among pink carnations. Remember that we are headquarters for it. Splendid stock, ready for immediate delivery. \$7.00 per 100; \$60.00 per 1000.

DAHEIM Dark crimson; grand stiff stem; Calyx never bursts. Free and abundant bloomer, developing very quickly. We consider this the best all-round crimson carnation. \$6.00 per 100; \$50.00 per 1000.

MRS. M. A. PATTEN This grand variegated carnation has given splendid satisfaction. \$6.00 per 100; \$50.00 per 1000.

ENCHANTRESS Freest blooming, bringing highest market prices. In great demand. \$4.00 per 100; \$30.00 per 1000.

MRS. THOS. W. LAWSON \$3.00 per 100; \$20.00 per 1000.

PROSPERITY A magnificent fancy carnation. \$3.00 per 100; \$20.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

DORMANT ROSES

HYBRID PERPETUAL TEA, HYBRID TEA AND OTHERS

Selected Large Two-Year-Old Bushes Low-Budded and Own Roots
Varieties marked (*) we can supply upon their own roots, or budded.
OUR ROSES ARE MADE UP IN BUNDLES OF FIVE EACH

HYBRID PERPETUAL

Abel Carriere	Duke of Teck	Mme. Charles Wood	Alfred Colomb
*Earl of Dufferin	Margaret Dickson	*Anna de Diesbach	Eugene Verdier
*Marshall P. Wilder	Anna Alexieff	Fisher Holmes	*Magna Charta
Ball of Snow	*Gloire de Margottin	Mme. Gabriel Lutzet	Baroness Rothschild
*Gen. Jacqueminot	*Mrs. John Laing	Capt. Christy	*Gen. Washington
Paeonia	Cheshunt Hybrid	Geant des Batailles	*Paul Neyron
*Clio	John Hopper	Persian Yellow	Duke of Connaught
*La France	*Prince Camille de Rohan	Duke of Edinburgh	Mabel Morrison
*Ulrich Brunner			

Prices of above: Dormant budded plants, purchaser's selection, 65c. per bundle of 5; \$11.00 per 100; \$100.00 per 1000. Varieties on own roots, 75c. for 5; \$13.00 for 100. Not less than 5 of any one variety sold.

TEA, HYBRID TEA, and other Dormant Roses

*Clothilde Soupert.....	\$9 75	\$13 00	*Maman Cochet. Pink	Per 5	Per 100
Caroline Testout. Rose.....	75	13 00	*Maman Cochet. White	\$6 65	\$11 00
Gloire de Dijon.....	75	13 00	Souy de Malmison	65	11 00
*Gloire Lyonnaise.....	90	15 00	*President Carnot.....	90	15 00
*Hermosa.....	75	13 00	*Reine Marie Henriette.....	75	13 00
*Kaiserin Augusta Victoria.....	90	15 00	*White La France. White.....	90	15 00
			*Wm. Allen Richardson.....	1 00	17 50

MAMAN COCHET

Pink and white, 2-year-old, own root, American-grown, The finest of all roses for florists, blooming outside. Bundle of 5 for 65 cents, \$11.00 per 100, \$100.00 per 1000.

CRIMSON RAMBLERS, Large Dormant Plants, American-Grown

First size, 2-year-old, 4 to 6 ft. long, with many branches, per 5, \$1.00; per 100, \$18.00. Second size, 2 1/2 to 4 ft. long, per 5, 75 cents; per 100, \$12.00. Third size, 2 to 2 1/2 ft., 1 year old, per 5, 40 cents; per 100, \$6.50. *White Rambler (Thalia). *Pink Rambler (Euphrosyne). *Yellow Rambler (Aglais). Extra strong; 2-year-old plants, 75 cents per 5; \$12.00 per 100.

STANDARD or TREE ROSES Grafted on Rugosa Stock

Large, well-grown, selected plants in the following varieties, all true to name:

Paeonia	Mrs. John Laing	Gen. Jacqueminot	Duke of Teck
Ulrich Brunner	Mme. Isaac	Caroline Testout	Ferrier
Belle Siebrecht	Mme. Berard	Prince Camille de Rohan	Crimson Ramblers
Gloire Margottin	75c. each;	\$3.00 per 5;	\$5.00 per 10;
			\$40.00 per 100.

CLUCAS & BODDINGTON CO. 812-814
Corner Jane Street. Telephone, 1063 Chelsea.
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

GRAFTED STOCK NOW READY.



Kaiserin, } \$15.00 per 100
Carnot, } \$120.00 per 1000

OWN ROOT STOCK.

Kaiserin, } 2 1/4 in. pots,
Carnot, } \$4.00
Bride, } per 100;
Bridesmaid, } \$35.00 per 1000.

AMERICAN BEAUTY, 2 1/4 in. \$6.00 per 100; \$50 per 1000.
W. H. ELLIOTT, Brighton, Mass.

The Best White Carnation is LIEUT. PEARY (WARD)

(Certificated 90 Points)

Snow-white, strong clove fragrance, full broad petaled, high centered flower of fine symmetrical form, 3 inches in diameter, borne on strong, stiff stems, 18 inches and upward in length. Long, strong calyx, flower excellent keeper and shipper; very vigorous, strong, healthy habit, cuttings root readily. Commences blooming October 15 and continues steadily throughout the Winter, affording a fine yield. First-class commercial variety in every respect.

Booking Orders Now. \$12.00 per 100; \$100.00 per 1000

NOW READY

ROOTED CUTTINGS		TWO-INCH POTS	
ETHEL WARD.....	\$7.00 per 100	PROSPERITY.....	\$2.00 per 100
THE PRESIDENT.....	\$60.00 per 1000	JUDGE HINSDALE.....	\$15.00 per 1000
WHITE LAWSON.....	\$4.00 per 100	GOLDEN EAGLE.....	\$5.00 per 1000
ENCHANTRESS.....	\$30.00 per 1000	OCTOROON.....	\$6.00 per 100
CHRISTMAS EVE.....	\$5.00 per 100	WHITE LAWSON.....	\$50.00 per 1000
GOLDEN EAGLE.....	\$4.00 per 100	ETHEL WARD.....	\$7.00 per 100
LAWSON.....	\$3.00 per 100	CARDINAL.....	\$60.00 per 1000
PROSPERITY.....	\$25.00 per 1000		\$12.00 per 100
MACKINAC.....	\$2.00 per 100		\$100.00 per 1000
THE BELLE.....	\$15.00 per 1000		
JUDGE HINSDALE.....	\$6.00 per 100		
MRS. PATTEN.....	\$50.00 per 1000		
NELSON FISHER.....			
OCTOROON.....			
FLAMINGO.....			

50 of a kind at 100 rate; 250 of a kind at 1000 rate
COTTAGE GARDENS COMPANY (INC.), Queens, N. Y.
C. W. WARD, Manager

Mention the Florists' Exchange when writing.

Out In the Stilly Nights

We are awakened to the fact of something doing

FRESH SEEDS OF 1904

- Asters, all standard varieties, trade pkt..... 25 cts.
- Smilax, per oz..... 35 cts.
- Salvia, Splendens, Bonfire, trade pkt..... 25 cts.
- Musa Enaete, just received, 100 seeds..... 90 cts.
- Dracena Indivisa, per oz..... 30 cts.

SWEET PEAS

- Mont Blanc, per lb..... 45 cts.
- Blanche Ferry, extra early, per lb..... 30 cts.
- Couless of Radnor, per lb..... 30 cts.
- Salopian, per lb..... 30 cts.

Cane stakes are wanted now for your lilies, 1,000..... \$6.00

BULBS

- Madeira Vines, per 100..... \$1.00
- Tuberosea, Dwarf Double Pearl, Excelsior, 4x6, 1,000..... 8.00
- Gladiolus, May, best forcing variety, 100..... 2.00
- Gladiolus, White, a light mixed, 100..... 2.00

FERTILIZER

- Peruvian Guano, Freshly imported, 100 lbs..... \$2.25
- Sterilized Sheep Manure, Ton lots..... 20.00

WM. ELLIOTT & SONS, NEW YORK.

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NEW DAHLIAS of Proved Merit

Embracing a complete set of 12 NEW CENTURY DAHLIAS, 25 NEW CACTUS DAHLIAS, NEW COLLARETTE DAHLIAS, NEW GIANT-FLOWERED DAHLIAS, NEW FANCY DAHLIAS, NEW DECORATIVE DAHLIAS, NEW SHOW DAHLIAS, NEW SINGLE DAHLIAS. In all, 38 of the most wonderful Single Dahlias ever produced, and 44 of the grandest Double Dahlias. All exquisite in form, shape and coloring; free bloomers and Money-Makers. Faithfully and truthfully described in our new illustrated descriptive catalogue, mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.

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HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Offer's Hybrids and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**

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BERMUDA HARRISII BULBS

THE "SEMPER IDEM" BRAND

I AM NOW BOOKING ORDERS FOR JULY AND AUGUST DELIVERY PRICES ON APPLICATION

CHAS. A. V. FRITH
HAMILTON, BERMUDA

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GOLD MEDAL STRAIN BEGONIAS TUBEROUS ROOTED

	Per doz.	100		Per doz.	100
Single White.....	\$0.35	\$2.25	Double White.....	\$0.65	\$5.00
" Yellow.....	.35	2.25	" Yellow.....	.65	5.00
" Nankeen.....	.35	2.25	" Orange.....	.65	5.00
" Pink.....	.35	2.25	" Rose.....	.65	5.00
" Rose.....	.35	2.25	" Dark Rose.....	.65	5.00
" Red.....	.35	2.25	" Dark Red.....	.65	5.00
" Dark Red.....	.35	2.25	" Red.....	.65	5.00
" Salmon.....	.35	2.25	" Salmon.....	.65	5.00
" Orange.....	.35	2.25	" Mixed.....	.50	4.00
" Mixed.....	.30	2.00			

STUMPP & WALTER CO., 50 Barclay St., New York
Branch Store 404 East 34th St., N. Y.

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GROW

THE NEW ASTER MISS KATE LOCK

AND

IT SPEAKS FOR ITSELF HAS BEEN GROWN 48 IN. HIGH

Blooms 5 to 6 in. in diameter, with very full centers, stems from 36 to 40 in. Shown at the largest exhibitions in Canada, took everything before it. Colors, white, Daybreak and mixed; \$2.00 per 1000 seed, not less than 1000 seed sold. No agents, Don't send checks. Originator

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PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

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Catalog Engravings and ILLUSTRATIONS
that print EASILY. That's the kind we make—have been since '72.
JAS. M. BRYANT, Horticultural Engraving and Printing
706 Chestnut Street, PHILADELPHIA, PA.

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A Bargain

A Delayed Shipment of

Assorted Spring Bulbs from Turkey

is offered for sale at a very low price to clear out the lot. Apply to

STRONG & TROWBRIDGE CO.
21-24 State St., NEW YORK CITY

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Onion Sets

CHOICE STOCK

Samples and Prices on Application

VAUGHAN'S SEED STORE

84-86 Randolph St. CHICAGO 14 Barclay St. NEW YORK

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1904 CROP ASPARAGUS SEED

	Per 100	Per 1000
Plumosus Nanus.....	55c.	\$3.50
" Robustus.....	85c.	7.50
" Sprenger!.....	15c.	1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.

MOORE & SIMON, Seed Growers
207 Market Street, PHILADELPHIA, PA.

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LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an un-introduced seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandyvine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.
WEST GROVE, PA.
Mention the Florists' Exchange when writing.

Chinese Herbaceous PEONIES

SPLENDID ROOTS, WITH 2 TO 5 EYES.

	Per doz.	Per 100		Per doz.	Per 100
Double White	\$1.50	\$10.00	Double Red	\$1.25	\$8.00
Double Pink	1.25	8.00	Double Mixed, all colors	1.00	6.00
Double Dark Red	1.25	8.00			

SAGO PALM STEMS (Cycas Revoluta)

Just received an importation of splendid shapely stems, ranging in weight from 1 to 6 lbs. and 5 to 10 lbs. each. Per lb., 12c.; 10 lbs., \$1.00; 25 lbs., \$2.25; 100 lbs., \$9.00. Special quotation on case lots of 300 lbs.

Japanese Lilies and Fern Balls

	Per 100	Per 1000		Per 100	Per 1000
Lilium Auratum, 9-11 (100 bulbs to case)	\$7.00	\$67.00	Lilium Speciosum Rubrum, 8-9 (220 bulbs to case)	\$6.00	\$50.00
Lilium Speciosum Album, 8-9, scarce (220 bulbs to case)	7.00	63.00	Lilium Speciosum Helopomene (220 bulbs to case)	6.60	55.00

Large size, 7-9 inch in diameter..... \$2.75 Per doz. \$20.00
5-7 1.75 13.00
Headquarters for cold storage Lily of the Valley—Write for prices.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.
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NEW CROP Flower Seeds

ASTERS—Best German Grown

	1/4 oz.	Oz.
Queen of the Market	\$.16	\$.60
Victoria	.60	1.75
Giant Victoria	.60	2.00
Peony Fl. Perfection	.45	1.60
Simples' Branching, Home-Grown	.20	.60

Above in Separate Colors or Mixed.
Fresh Tobacco Stems.....\$1.50 per bale of 300 lbs.

W. C. BECKERT, Allegheny, Pa.
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Summer Flowering BULBS

	100	1000
Ismene Grandiflora	\$6.00	\$50.00
Madeira Vines	1.00	8.00
Spotted Callias	3.00	25.00
Tritoma Pfisteri	7.00	60.00
Gladiol, mixed, 1 1/2 in. diam.	.60	6.00

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC.
Eight per cent. discount for cash.
Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N.Y.

GOOD STOCK
at Fair Prices. Look up our advertisement in last issue, page 359; or write us.
H. H. BERGER & CO.
47 Barclay St., NEW YORK

RAWSON'S
Arlington Tested Seeds for Florists. Catalogue mailed free.
W. W. RAWSON & CO.
Seedsmen,
12 Faneuil Hall Square, BOSTON, MASS.

DAHLIA LARGE, WHOLE, FIELD GROWN CLUMPS FOR CUT FLOWERS
Grand Duke Alexis (large white, tinged delicate pink), finest Dahlia to date. \$5.75 per 100. C. W. Bruton (immense yellow), Harry Freeman (large white), Wm. Agnew (finest red), Queen Victoria (deep yellow), May Lomas (soft lavender), Mme. Moreau (deep rosy pink), Snowball (pure white), Henry Patrick (large white). Price, \$3.75 per 100. (10 of a kind at 100 rate).
A. B. DAVIS & SON, Purcellville, Va.

ROSES Dormant, Now Ready. H. P. Best Market Vars. \$10.00 PER HUNDRED

CRIMSON RAMBLERS, Extra	\$15.00 per 100
No. 2	9.00 " "
BOXWOOD PYRAMIDS, 3 ft. and up	\$175.00 " "
4 ft. and up	225.00 " "

Prices on all Full Bulbs, Plants and Roots cheerfully given by
F. W. O. SCHMITZ, Prince Bay, N.Y.

ROSES SPECIAL OFFER F. O. B., NEW YORK

Strong, 2-year, field-grown
Madame Gabriel Luizet, Magna Charta, Baroness Rothschild, Genl. Jacqueminot, Ulrich Brunner, Mrs. John Laing, Paul Neyron, Mabel Morrison, Perle des Blancs, Fisher-Holmes, La France, Celine Forestier, Prince Camille de Rohan, Marshall Wilder, Caroline Testout. Each, 15c.; doz., \$1.50; per 100, \$11.00.
American Beauty, Kaiserin Augusta Victoria, Soleil d'Or, Gruss an Teplitz, Baroness Rothschild, Margaret Dickson. Each, 25c.; doz., \$2.50; per 100, \$18.00. Frau Karl Drachki, best white, \$1.00 per doz.; \$25.00 per 100.

Crimson Rambler
Strong, 3 to 4 feet.
5 for 75c.; 10 for \$1.25; 25 for \$2.50; 100 for \$9.00.
Extra, 4 to 5 feet.
5 for \$1.00; 10 for \$1.75; 100 for \$15.00

Standard Tree Roses
50c. each; 5 for \$2.00; 25 to 100 at 35c. each.
Hybrid Teas and H. P.

BEGONIA
Tuberous, Single
1 1/4 in., separate colors, Red, Pink, Yellow, White Doz. 100 \$0.40 \$2.50
1 1/4 in., separate colors, Double Red, Pink, Yellow, White65 6.00

CALADIUM
(Elephant's Ears)
Doz. 100 1000
6-7 \$0.35 \$2.00 \$15.00
7-950 3.00 25.00
9-1175 5.50 50.00
Fancy Leaved named sorts 1.25 8.00

84 Randolph St. CHICAGO **VAUGHAN'S SEED STORE** 14 Barclay Street NEW YORK
Mention the Florists' Exchange when writing.

SURPLUS

For list see last week's issue, page 361
THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J.
Mention the Florists' Exchange when writing.

ROSES, X fine, 2 in. pots, \$30.00 per 1000. Maman Cochet, white and pink, Clothilde Soupert
ROSES, following varieties, \$25.00 per 1000 Dorothy Perkins, Empress of China, Etoile de Lyon, Evergreen Gem, Gardenia, Golden Gate, Mme. F. Kruger. See wholesale list for other varieties.

Michell's Superior Branching Asters
Our selected strain of **Semple's Late Asters** is a money maker. Seed saved from the finest and largest double flowers, solid colors, with long stiff stems, which command top-notch prices. Try them with following colors:
Lavender, Pink, Purple, Red, White and Mixed
Per Tr. Pkt., 30c.; per oz., \$1.00
For Select List of **FLOWER SEEDS—BULBS—SUPPLIES** and everything for the Florist, see our Wholesale List. Mailed on request.
HENRY F. MICHELL CO., 1018 Market St., Philadelphia, Pa.
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WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

GLADIOLI BULBS
Shakespeare, large grade, Eugene Scribe, sizes 1 and 2; No. 1900, 2, 3 and 4; Augusta, 2, 3 and 4; also small Augustas about 1/4 to 3/8 in. at \$3.50; and 5-16 to 1/2 in. at \$5.00 per 1000. No. 3 Augusta, fine blooming size at \$12.00 per 1000. No. 3 of No. 1900, \$6.50 per 1000. Cash with order.
Gladioli
JOHN FAY KENNEL, Specialist, Chili, N.Y.

DAHLIAS
Mrs. Winters, the World's best white, strong numbers, \$10.00 per 100. Ingeborg Egeland, best scarlet cactus, \$3.00 per doz., \$20.00 per 100.
Many other novelties and standard varieties.
Wilmore's Dahlias have long been celebrated for prize winning.
Also Double Field-grown **HOLLY-HOCKS**, true to color, \$3.00 per 100. Send for catalogue.
W. W. WILMORE
Dahlia Specialist, Box 382, DENVER, COL.
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QUALITY SEED BULBS PLANTS
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York.

Florists' Flower Seeds
NEW CROP NOW READY.
Catalogues free on application.
WEEBER & DON, Seed Merchants and Growers,
114 Chambers Street, NEW YORK

200,000 AUGUSTA GLADIOLUS
IN DIFFERENT SIZES
1st size, 2 inch and up.
2d size, 1 1/2 inch, 1 1/4 inch.
3d size, 1 1/2 inch, 1 1/4 inch.
WHITE & LIGHT
1st size, 1 1/2 inch, 1 1/4 inch
2d size, 1 1/4 inch, 1 1/4 inch.
Ask for prices on the different sizes; send stamps for sample.
Long Island is known all over the world for the production of the best Gladioli Corms. Cash business is the only satisfactory way. Ask for references in regard to our standing, or come and see for yourself.
Address all orders to
ROWEHL & GRANZ, Hicksville, L. I., N. Y.
Mention the Florists' Exchange when writing.

CANNAS
True, sound, selected roots, 2, 3 and more eyes, Allemania, Anstris, Italia, P. Marsquad, Robusta, red leaf, \$2.00 per 100; \$15.00 per 1000. Mrs. Kate Gray, new, orchid-flowered, 6-7 in. across, scarlet overlaid with gold; Martha Washington, dwarf, finest pink; Black Beauty, etc.; \$1.00 per 100; \$25.00 per 1000.
DAHLIAS field-grown, leading kinds, for cut-flowers named whole roots, \$3.50 per 100; \$30.00 per 1000.
Shellroad Greenhouses, Grange P. O., Balto., Md.

SEED BAGS
For The Trade
We manufacture a full line in Manila, White, Amber or Colored Laid Papers. Also print in quantities. Samples on application. Send list of requirements for estimate.
THE BROWN BAG FILLING MACHINE CO.
Bag Dept. FITCHBURG, MASS.
Mention the Florists' Exchange when writing.
THE AMERICAN CARNATION
Price, \$3.50
A T. DE LA MARE PTR. & PUB. CO. LTD.
2 TO 8 DUANE STREET, NEW YORK

Thorburn's Seeds
We are Now Booking Orders for
Lilium Harrisii
for the coming season and florists are invited to send us a list of the sizes and quantity wanted, that we may quote them prices.
J. M. THORBURN & CO.
36 Cortlandt St. New York
Mention the Florists' Exchange when writing.

CRIMSON RAMBLER **OWN ROOTS.**
 3600 No. 1 1/2 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$15.00 per 100.
HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Dea Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

FRENCH BULB CROPS.—For a great part of the past Winter the bulbous plants in the south of France suffered from lack of rain, but now we have experienced a downpour of four days' and four nights' duration, and the crops are saved. We can now wait till the end of April for another rain, which will bring about good crops. Prospects are bright.

NEWPORT, R. I.—There is a new seedsman at the George A. Weaver Company—Mr. Sommers, of Sharon, Mass.

Several carloads of seed potatoes were received here frozen, which caused trouble and delay.

Onion sets and seed potatoes are being offered somewhat cheaper than a week ago. Red and yellow sets at \$3.75 a bushel and white at \$4.25; seed potatoes in all the standard varieties at \$2.75 per barrel bag. F. W.

The Bureau of Plant Industry Department of Agriculture has issued a bulletin (No. 73) giving in detail the results of experiments with single-germ beet seeds. As soon as a sufficient quantity of single-germ seed has been produced comparative experiments with single and multiple-germ seeds will be conducted in different localities to determine the influence of soil and climate upon beet production from single-germ seed and to test the practicability of using single-germ beet seed on a commercial scale, reports of which will be published from time to time.

CONTINENTAL SEED NOTES.—The season being now over for the wholesale seed trade, we have to look forward and prepare for next season, and contract orders for 1905 and 1906 crops are now being placed.

Onions for 1906 crop have already been sown for a few days and let us hope for a better crop, for onions seeds are getting very scarce all over, and some varieties have fetched a higher price than we have been used to for years. Besides a good many firms taking opportunity of the scarcity of seeds, have sent away old stocks with new seeds, so that there is very little onion seed left over now. Then, on account of the onion bulbs having kept a big price the whole season through, the growers preferred selling them to putting same into earth for seeds, making sure of getting money instead of risking to get more or less by harvesting onion seeds. Under such circumstances, I believe I am not mistaken in telling your readers that onion seeds will reach a very high figure next season, the more so, that not one grower will now accept a contract for next crop at any price. Of course, this is a very good thing for growers, for it was really not worth while growing onion seeds at the low price we have been accustomed to these last few years.

Leeks do not look very well now, a lot of plants have suffered through the Winter, and as this article became a hit scarce last season, there is no reason why the seeds should not keep up next season.

Cabbages have passed the Winter with us badly, a good many plants having been

BAMBOO CANE STAKES Choice West-ern, length 5 1/2 to 6 feet, 500 for \$2.50; 1,000 for \$4.50; 5,000 and over at \$4.00 per 1000.

TOBACCO POWDER (Strong) For Fumigating. 100 lbs. \$2.25; 1,000 lbs. \$20.00. For Dusting (Impalpable Powder) 100 lbs. \$2.75; 1,000 lbs. \$25.00.

WOOD, STUBBS & CO., Seedsmen, Louisville, Ky.

Mention the Florists' Exchange when writing.

GOLD MEDAL CANNA West Virginia

Dry roots, \$3.00 per 100; Started plants, \$5.00 per 100. Ready April 1st. Stock limited, speak quick.

GUS. OBERMEYER P. O. Box 219, Parkersburg, W. Va
 Mention the Florists' Exchange when writing.

destroyed through sharp frosts, and I hear the same applies to the plantations in the South of France.

Mangels, which sold at low prices these last years, fetched a good price last season, namely, the long red Mammoth, which sold even better than Vauriac and Barres or Yellow Globe; it is to be hoped it will also keep up next season, for the benefit of the growers.

Plants of carrots look pretty well, but there is such a lot of seed left over from last season that it is to be hoped there will be as little as possible planted, so that prices do not come down any more. Up to lately, we had very dry weather here, and we all thought next season would be a dry one again, but, happily, we are now enjoying beautiful rain, which will do any amount of good, and will prepare the soil for Spring sowing.

We shall only want a little warm weather, after this, and plantations will be made under very good conditions.

We are now looking forward for a good season for beans. These last four or five years' crops of these have been so awfully bad, that our country people will not grow any more at any price, namely, the runner varieties, which we find most difficult to place. Of course, only one good crop would put the matter right again and encourage our people to grow beans on a large scale, as they did before.

I remember that last year, about this time, I reported you about floods along the Loire Valley; I may say it is just the reverse now, the bottom of the river is so dry that one would hardly believe there is a river running through the land now.

I understand that plantations in the South of France badly suffered from the few days of severe frost we had this last Winter. No doubt within a short time, we shall know more about the damages thus done to the biennial plants.

—French Seeds, in Horticultural Advertiser, Eng.

European Notes.

In taking upon itself the duties usually fulfilled by February, March has displayed the excess of zeal which usually distinguishes new converts. The result is that we are nearly washed out of house and home, and our strong clay lands are beaten down as hard as a macadam roadway. In Western Europe the average rainfall has now been more than made up, but in the east, particularly in Essex County, England, there is still a considerable deficiency. At any rate, we are not likely now to suffer from drought before June. The weather in Northern Europe is exceptionally mild, and vegetation is already from two to three weeks ahead of last year.

From Southern Europe the reports are not so favorable, and the florists, as well as the seed growers, are having a very bad time. To such an extent have the florists of the Riviera suffered, that a public subscription is being raised, on the initiative of the Mayor

ROSES! CLEMATIS!

To close out our surplus on these Items we are making low quotations on **Strong 2 Year Dormant Plants**—Crimson Rambler, White Rambler, Pink Rambler, Yellow Rambler, Mme. G. Lulzet, Magna Charta, Frau Karl Druschki.

Strong 2 Years—Clematis Jackmanni, Henryii, Mme. E. Andre, Ramona. Ampelopsis Veltchii. Write for prices.

Bride, Perle, Cochet Pink and White, Golden Gate and many others, from 5 in. pots, at \$10.00 per 100.

W. & T. SMITH COMPANY, Geneva, N. Y.
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If you are uncertain regarding the quality of our Bulbs, write for good words others say for them.

HUBERT & CO.

N. LEPAGE, Rep. MT. VERNON, N. Y.

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of Nice, to save them from absolute ruin. The crop of choice flower seeds, usually saved in this district, will this season be practically nil. It is, however, in Southern Italy that the damage has been greatest, a greater intensity of cold having been experienced than any within the memory of man. The following summary has just been circulated by one of the Neapolitan firms, but the facts have been made known to the readers of this column as they have occurred: "Since the middle of November we have had frosts without almost any interruption, which, owing to their unusual severity during the past month, have caused great damages even to the less delicate plants.

"Cauliflower.—These plants have specially suffered, and we do not expect that more than one-fourth of the plants will yield seed.

"Onion.—The crop will be absolutely short and equally so that of garden beans.

"Flower seeds have also severely suffered."

As regards the onion seed crop, another very large grower reports that, on account of the great scarcity of onions, many of the poor people are pulling up the bulbs planted for seed and cutting off the green shoots to flavor their food. With an average demand for this seed next season, there will be some difficulty in filling orders. **EUROPEAN SEEDS.**

CATALOGUES RECEIVED.

SAMUEL C. MOON, Morrisville, Pa.—Wholesale Trade List of Nursery Stock.
HENRY A. DREER, Philadelphia, Pa.—Spring Wholesale Price List of Plants, Seeds, Aquatics, Bulbs, Sundries, etc.

THE ELM CITY NURSERY COMPANY, New Haven, Conn.—Illustrated Catalogue of Roses, Ornamental Trees and Shrubs, Evergreens, Flowering Plants, Deciduous Trees, Herbaceous Plants, Fruits, etc. Special attention is given to specimens for immediate effect.

BOBBINK & ATKINS, Rutherford, N. J.—Wholesale List of Florists' and Nursery Stock. Some of this firm's specialties are Hardy Herbaceous Plants, Buxus, Bay Trees, Palms, Choice Evergreens, Trained Fruit Trees, Roses, Hardy Azaleas, Rhododendrons, Deciduous and Evergreen Shrubs.

WAGNER PARK CONSERVATORIES, Sidney, Ohio.—"Plants and Plans for Beautiful Surroundings" is the title selected by this enterprising firm for its useful and handsomely gotten up catalogue. Many beautiful illustrations of home grounds show the effective planting work done by the firm. The lists of plants are very complete. We have also received from this house a copy of a "Portfolio of Landscape Architecture."

MANETTI STOCKS

In fine Condition. Can be Shipped Promptly
 No. 1, 5-10 mm., \$10.00 per 1000;
 \$95.00 per 10,000.

JACKSON & PERKINS CO.
 NEWARK, NEW YORK.

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CALIFORNIA PRIVET Choice Stocky Plants well branched, two and three years old, all sizes. Prices ten per cent less than any advertised prices by others, for cash with order, packing free. Atlantic Coast Nurseries, Office, 608 4th Ave., A-bury Park, N. J.
 Mention the Florists' Exchange when writing.

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WRITE FOR PRICES WE ARE HEADQUARTERS FOR ONION SETS **SEED CO. CHICAGO**
 Seeds for present requirements ready to ship. Contract orders for delivery after harvest 1906 are being booked now. Beans, Peas and Garden Seeds. Write for Prices
 Flower Seeds and Bulbs
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MR. ENDTZ

in the United States.

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PIN OAKS
SPECIAL LOW OFFER

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ANDORRA NURSERIES, Wm. Warner Harper, CHESTNUT HILL, PA.
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NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

W. Kirkpatrick, McKinney, Tex., president; C. L. Wtrous, Des Moines, Ia., vice-president; George C. Seger, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

railroad rate of fare and one third for the round trip, certificate plan, has been granted for the meeting of the American Association of Nurserymen at West Helen, Ind., June 14 to 16. The B. & O. informs us that its rate from New York to the place of meeting is \$20.10, and one-third returning, tickets on sale June 10 to 13, good to return up to June 20.

A very useful bulletin (Farmers' No. 213) on the subject of Raspberries, prepared by Professor L. C. Cobett, horticulturist, Bureau of Plant Industry, has just been issued by the U. S. Department of Agriculture, Washington, D. C. The pamphlet, which is illustrated, deals with cultivation, pruning, harvesting, curing and varieties adapted to each fruit district of the country.

MILWAUKEE, WIS.—After running several blocks to catch a train on the Milwaukee road on March 21, Albert Fancher, aged 59, one of the pioneers of the county and a well known nurseryman, fell back in a seat, and when Franksville was reached he died. The over-exertion brought on heart trouble.

ALBANY, N. Y.—According to several of the dealers in nursery stock, the sales this Winter have been all up with other years and the Spring shipments from here will be as large this year as any year in the past, the only possible difference being that more of the trees will be handled by wholesale and less by retail methods.

PROHIBITING THE IMPORTATION OF INSECT PESTS.

The recent Act of Congress to prohibit the importation or interstate transportation of insect pests, and the use of the U. S. mails for that purpose has been distributed as a circular by the Treasury Department to collectors and other officers of customs. The act provides, among other things:

That no railroad, steamboat, express, stage or other transportation company shall knowingly transport from any State or Territory into any other State or Territory, from the District of Columbia into a State or Territory, or from a State or Territory into the District of Columbia, or from a foreign country into the United States, the gypsy moth, brown-tail moth, leopard moth, plum curculio, hop plant-louse, boll weevil, or any of them in a live state, or other insect in a live state which is notoriously injurious to cultivated crops, including vegetables, field crops, bush fruits, orchard trees, forest trees, or shade trees; or the eggs, pupae, or larvae of any insect injurious as aforesaid, except when shipped for scientific purposes under the regulations hereinafter provided for; or shall any person remove from one State or Territory to another State or Territory, or from a foreign country to the United States, or from a State or Territory into the District of Columbia, or from the District of Columbia into any State or Territory, except for scientific purposes under the regulations hereinafter provided for, the gypsy moth, brown-tail moth, leopard moth, plum curculio, hop plant-louse, boll weevil or any of them in a live state, or other insect in a live state which is notoriously injurious to cultivated crops, including vegetables, field crops, bush fruits, orchard trees, forest trees, or shade trees; or the eggs, pupae, or larvae of any insect injurious as aforesaid.

Any letter, parcel, box or other package containing any of the aforementioned insects, whether sealed as first-class matter or not, is declared non-mailable matter except for scientific purposes.

Any person, company, or corporation who shall knowingly violate the provisions of section one of this act shall, for each offense, be fined, upon conviction thereof, not more than five thousand dollars or imprisoned at hard labor not more than five years, or both, at the discretion of the court.

Evergreens From Seeds.

Those who attempt the raising of evergreens from seeds often fail through not sowing early enough in Spring. These seeds should be in the ground the very first thing after the soil is in fit condition to work. It takes some time for seeds to swell their coats after going into the ground. Sometimes the latter part of Spring is dry and warm, and if the seeds are not sprouting by that time, often they will not come up at all. When sown early, right after Winter, it is seldom there is not moisture enough to sprout them, and when once above ground in good time the seedlings usually do well.

Another gain from early sowing is this: the seedlings become of some strength and hardness of growth to withstand the hot sun of Summer. It is this hot sun which destroys so many evergreen seedlings. Even the seedlings from early sowings are much better if a little shade can be given them in some way in Summer, and all gardeners know how much better seed sprouts when in the shade than when in the full light. Although early sowing of evergreen seeds is particularly mentioned, all kinds of tree seeds are the better for such treatment.

Hardiness of Kudzu Vine.

A correspondent, writing from Minnesota, mentioning what has been said of the kudzu by recent writers in The Florists' Exchange, says that when at Rose Hill, New York, some years ago, he left outdoors about 100 kudzu vines one Winter, and of these 40 of them survived. There was snow on the ground all Winter, from 8 to 10 inches deep, and the thermometer was as low as 18 degrees below zero.

As said in some preceding notes, when below ground many plants will sprout from the base, although killed to the ground. A large plant here, which has been in its present position for about 25 years, has met zero almost every Winter without any root protection, and it usually keeps a few feet of its wood alive in the very worst Winters, and more in moderate ones; so it is quite hardy here. And Mr. Teas' specimen, which was illustrated lately, shows how well it does in Indiana.

Grouping Hydrangeas.

Japan has sent us so many hydrangeas unlike in their habits of flowering, that some confusion exists as to their proper classification. They could be properly arranged in three divisions, as follows: Take for the first *H. paniculata* and its varieties; for the second, those of the japonica type, which are those bearing flat heads of flowers, and this will leave for the third class the *Hortensia* in its many varieties, all having globose heads of flowers. In the first division we have the hardiest ones of all, the *H. paniculata* and *H. p. grandiflora* and others. In the japonica is



PLUM, EARLY TRANSPARENT GAGE
Grown under glass, by Peter Duff, Orange, N. J.

Photo by J. B. Davis

the next hardiest, japonica, cœrulea, Imperatrice Eugenie, stellata and others, with, as mentioned, flat heads of flowers. The last division is made up of the *Hortensia* and its many varieties, such as Thomas Hogg, otaksa rosea, ramis pictus, etc. Both the japonica and *Hortensia* groups will be injured in severe Winters, but never entirely killed; the *Hortensias* suffer the most.

The japonica group is a very pretty one. Some of them have flowers of a natural blue shade; others rose color.

Propagating Yucca recurva.

A friend is anxious to know how to propagate a *Yucca recurva*. He has a large plant which flowered splendidly last Spring, after having been grown outdoors for three years, and he wants to increase it. Well, all he has to do is to dig around his plant and cut off a fleshy root or two. These roots, cut into pieces of an inch or two in length, and set in a row outdoors, an inch or so underground, will, every one almost, make a plant. It would be still better were the roots placed in a shallow box indoors, as this gives the chance of watching and helping their growth.

Yucca recurva is the most desirable of all the family, I think. The foliage is of pleasing habit, the leaves being broad and gracefully recurving. The flowers are large and so is the spike that bears them. Its early flowering is much in its favor. The plant in the garden of the friends spoken of was in bloom in May, in advance of the *Y. angustifolia*, or *glauca*, as

it is now called, which heretofore has been the first of all yuccas to bloom.

Our friend, who signs himself "Dutchy," will wish to know how far North the *Yucca recurva* is hardy. This is something I do not know. Many folks here have the plant in their conservatories, being under the impression, evidently, that it is not hardy, so that it would seem that its hardy character is not well known even here.

Although differing radically from *Y. gloriosa* in the appearance of its foliage and in its early flowering—the *gloriosa* flowering in October—it is looked on as being a variety of it.

San Jose Scale.

Although kerosene emulsion, whale oil soap and other substances are still considered effective in killing scale to some extent, the preference just now is for the lime, sulphur and salt mixture. This is known as the California remedy, but old gardeners will remember the use of lime and sulphur for similar purposes since they were boys. The present day mode of preparing the mixture is as follows: In an iron kettle bring a few pailfuls of water to nearly boiling, then add 20 pounds lime, stir it and add 15 pounds of sulphur, and boil all for 30 minutes. Then add 5 pounds salt and add to all 50 gallons water; strain it, and it is fit for use. Another way, said to be just as good, is to get a tight barrel, into which place the lime and pour in some few pailfuls of boiling water. Then add the sulphur and cover tight the barrel. When all is well slaked, add the salt, strain the whole, and add the 50 gallons of water, and it is ready for use.

The spraying is to be done just in advance of the bursting of the buds. As it is near the buds that the scales find refuge, as a rule, care must be taken that the mixture reaches every part of the twigs. The lime and sulphur are good enough alone, it has been found, but salt is added to make it adhere better.

The name San Jose scale, was given this pest because it was first observed in that city, in California, after its introduction from South America, as it is supposed. The name San Jose is variously rendered by folks, but its proper pronunciation is as if spelled "San Hozay."

Referring again to kerosene, there are those who say they have found crude petroleum better than anything else, applied just as the buds are swelling on the trees.

Transplanting English Walnuts.

A correspondent, J. J. Harden, asks advice on the sowing and transplanting of English walnuts. He has a lot of seeds which he desires to sow, the plants expected from which he intends to transport some fifty miles when they are a year old. He has had suggested to him the sowing of the nuts in pots, but there being a great number of them, he hesitates, and instead of doing that he thinks of sowing them in rich ground outdoors, but, fearing injury to tap roots in digging them, concludes to rest his case until advice reaches him. Were it not that he has a great number, pots would be the best of all plans, but there need be but little risk of either loss of plants or loss of growth from plants grown outdoors. There is one thing he ought not to do, however, viz., sow the nuts in rich ground. He should select a soil rather poor and light. The late A. S. Fuller mentioned more than once that walnuts, hickories and like nuts, when sown in light and not rich soil, formed but little taproot; instead, many fibrous ones, and of this many who have tried the plan can say the statement is quite true. Then, with these fibrous roots there is no more trouble in transplanting safely than there is with many other seedling trees. In addition to this, one-year-old walnuts, or hickories, are not difficult to get to live with or without tap roots.

Coming to the question of tap roots, and his fear that he might injure them in transplanting, there is, I think, far too much stress laid on the desirability of preserving such roots. There is not a tap root left to any tree of the millions that go out from nurseries annually, and it has yet to be proved that those trees are any the worse for it. In England, far from its being considered an injury, it is part of the Winter's work in fruit gardens to dig under many trees and sever the tap roots. True, climate makes a difference in the treatment called for, but it shows that what Nature calls for in trees is not always considered the best for the wants of man.

JOSEPH MEEHAN.

Fruit Crown Under Glass.

The Early Transparent Gage plum, shown in the picture, was brought into the house at "Brighthurst," Orange, N. J., to fruit in January. The treatment and cultivation were identical with that recommended in the able articles in The Florists' Exchange by William Turner. The plum was grown in a sixteen-inch tub and bore 133 fruits. The tree was five years old at the time the photo was taken. The temperature was started at 45 degrees and gradually increased. The photograph was taken in July. PETER DUFF.

A Good Dictionary.

In every business man's office a good dictionary is indispensable. We have therefore pleasure in calling the attention of our readers to the new and enlarged edition of Webster's International Dictionary issued by Messrs. G. & C. Merriam Company, of Springfield, Mass. This new dictionary is printed from new plates throughout, and contains a supplement of 25,000 additional words, a completely revised Gazetteer of the World, a completely revised Biographical Dictionary, etc. With a copy of "Webster" in his possession, one is equipped with facilities for acquiring a fair knowledge of nearly everything under the sun.

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AMERICAN TREE SEEDS AND PLANTS Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it. OTTO KATZENSTEIN & CO. Tree Seeds and Plants Specialists, ATLANTA, GA

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Eisele's Privet NONE BETTER

2,000 2-year, strong clumps, \$25.00 per 100. 50,000 3-year, cut back, heavy, 2 1/2 to 3 1/2 feet at \$25.00 per 1000. 50,000 2-year, cut back, heavy, 2 to 2 1/2 feet at \$18.00 per 1000. 25,000 Golden Elder, 3-year plants at \$60.00 per 1000. 30,000 Eonymus, strong branched, 12 to 15 ins. high, \$80.00 per 1000. 25,000 Box-Edging, 3 to 4 ins. at \$30.00 per 1000. Achillea, the pearl, \$6.00 per 100. Aquilegia, \$5.00 per 100. Achillea Rose, \$4.00 per 100. Santolina, large, \$8.00 per 100. Boltonia Asteroides, \$6.00 per 100. Clematis, white, strong, \$6.00 per 100. Coreopsis, Lanciflora, \$1.00 per 100. Dianthus Barbatus, \$5.00 per 100. Helianthus, Maximiliana, \$1.00 per 100. Delphinium, Formosa, \$5.00 per 100. Hollyhocks, double white, red, pink, yellow, 1-year, \$8.00 per 100. Golden Glow, \$3.00 per 100. Lychnis Chalcedonica, \$5.00 per 100. Mourda Rosea, \$5.00 per 100. Aethemis Tinctoria, \$5.00 per 100. Heuchera Sanginea, \$8.00 per 100. Stokesia Cyanea, \$5.00 per 100. Pyrethrum Roseum, \$5.00 per 100. Papaver Orientals, \$5.00 per 100. Veronica Longifolia, \$8.00 per 100. Platycodon Blue, \$5.00 per 100. Digitalis Gloxiniflora, \$8.00 per 100. Agrostemma Coronarin, \$5.00 per 100. OASH WITH ORDER.

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NURSERY STOCK Will be Sold Cheap to Clear Ground

- 2,000 Elms, good heads and straight, 8 to 10 ft
2,000 Norway Maples, 12 to 15 feet.
500 Horse Chestnut, fine tops, 8 to 10 feet.
4,000 Shrubbery, in variety, 3-4 yrs., bushy.
300 Norway Spruce, bushy, fine trees, 8 to 10 feet.
100,000 California Privet, 2 and 3 years, bushy 2 1/2 to 3 1/2 feet.
Price on application. Correspondence collected.

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Table listing prices for Scotch Pine, White Pine, and other evergreens.

Good supply of Hemlocks, Norway Spruce, and Abor Vite, White Spruce, Douglas Spruce, Colorado Blue Spruce, Abies Concolor, Balsam Fir, etc. Both Seedlings and Transplanted. Write for Trade List.

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1 ft. 5c. 2000 Hydrangea Oakleaf, for 4 to 10, 6c.
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2000 Hydrangea Paniculata Grandiflora, 2 ft. 8c. 1 ft. 5c. 2000 Hydrangea Oakleaf, for 4 to 10, 6c. 3 to 4, 4c. 2000 Spiraea Anthony Waterer, 3 years, strong, bushy, 6c.; medium, 4c. 1000 Clematis Paniculata, 3 years, heavy, 10c. Clematis Jackmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Vetchii, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyanea, field-grown, \$3.00 per 100. 5000 best shrubs and vines, dahlias, etc. Send for list. BENJ. CONNELL West Grove, Pa. Mention the Florists' Exchange when writing.

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100,000 well grown plants, 3 to 4 ft., selected \$4.00 per 100; \$25.00 per 1000; 2 1/2 to 3 1/2 ft., 7 or more branches, \$2.50 per 100; \$17.50 per 1000; 20 to 30 in., 5 or more branches, \$2.00 per 100; \$13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, \$1.50 per 100, \$7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.

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The New Hardy Perennial The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

CANADIAN NEWS

TORONTO.—Easter stock generally looks very well, though some of the roses are rather forward. The Brampton growers have all fine stock for Easter. R. Jennings has sweet peas, carnations and daisies, while his house of single violets is a grand sight. The roses on the Dale estate are nearly all in fine condition. Some Bride and bridesmaid that have been in four seasons, are in nice shape and have been yielding good flowers all winter. Canadian Queen is doing extra well; General MacArthur has been found very satisfactory; La Detroit has not been so good; it has grown well and is now sending strong shoots from the bottom, but they have had hardly any flowers; all the other roses in the block with it are blooming freely. Carnations have been very satisfactory, but are a little off crop now, with a fine showing for the future. The house of young stock is a grand sight, all the varieties looking well. There is an extra fine bunch of mignonette; Ned Dale has been selecting this for years. The firm is going into orchids again; the stock of these is looking very well, and the gentleman who is looking after them evidently understands his business. There is also a fine stock of asparagus strings, but, it is said, the demand for sprays and enough of them cannot be obtained. The place is very large now, and a walk around it is half day's work. Wm. Fendley added a large block to his place last summer and has it nearly all planted in violets, of which he has made a specialty; he now has many thousands of good ones in sight. He also has a fine lot of carnations in his older houses. Mr. Fendley expects to build a very large place in the near future. Business has been a little flat the last few days, but there is not quite so large an oversupply of good stock as last week. Roses are coming in plentifully, and grand stock. Dunlop is sending in exceptionally fine American Beauty; he had one in his King street store with an 8-foot stem, a fine flower. The Dale Estate is sending one very fine Bride and Bridesmaid. Violets are getting over in many places, but are still quite plentiful, enough so to be cheap. Arrangements are making for a good show again November next, and we expect to hold it in Massey Hall. This is by far the best hall we have in Toronto; it is near the center of the city and is the most suitable place we have for a show now. We have never been able to get it before for the purpose, but believe satisfactory arrangements can be made this time.

Judges' Report on Exhibits—March 21 F. R. Pierson Co., Tarrytown, N. Y., exhibited White Lawson in excellent condition; stem good, 24 inches; calyx good; color good. Victory, best scarlet seen in this district this season; flowers 3 1/2 to 4 inches; good calyx and stem. Enchantress, fine flowers and well colored for season. Certificate. Dahelm, compared with Harlowarden on exhibition, did not show up as anything extra. Variegated Lawson, undoubtedly the best of its type; stem good as that of Mrs. Lawson; flower averaging 3 1/2 in. Certificate. W. J. Palmer & Son, Buffalo, N. Y., exhibited Red Lawson, and it is all that it is claimed for it by the exhibitor; color showing fine under artificial light. Certificate. White seedling of George Hollis of good form and fragrance. Weber & Sons, Oakland, Md., My Maryland, an ideal white of good size and stem; calyx and fragrance all of highest order. Certificate. J. H. Dunlop, Toronto, exhibited a vase of well-grown Harlowarden, flowered of good color, stem good. Vase of Boston Market by George Mills, claimed by the exhibitor to be the freest white he has grown. Siebrecht & Sons, New Rochelle, N. Y., staged new rose Killarney, of a pleasing shade of pink; quite distinct from any other forcing variety; fragrance very sweet; good stem and foliage. Cultural certificate. H. G. DILLEMUTH, E. E. GRAHAM, W. WILSHIRE, Judges. T. M.

ST. JOSEPH, MO.—Krumm Bros. have moved from 704 Felix to the southwest corner of Eighth and Francis.

Palms for Easter

I have the largest and BEST stock of KENTIAS that I have ever offered, in all sizes for EASTER sales and growing on for Fall trade. They are exceedingly good value at prices quoted.



KENTIA BELMOREANA

Table listing prices for Kentia palms in various pot sizes (3, 4, 5, 6, 8 inch) and heights (12 to 36 inches). Prices are given per dozen and per 100.

MADE-UP PLANTS

6 inch pot, 3 plants in pot, 24 to 26 inches high \$1.25 each

KENTIA FORSTERIANA

Table listing prices for Kentia Forsteriana in various pot sizes (3, 4, 6, 8 inch) and heights (12 to 36 inches). Prices are given per dozen and per 100.

MADE-UP PLANTS

7 inch pot, 4 plants to pot, 32 inches high \$2.00 each
8 " 4 plants to pot, 36 " 2.50 "
12 " or tubs, 4 plants to pot, 6 to 7 feet high 15.00 "

JOSEPH HEACOCK, Wyncote, Pa.

Mention the Florists' Exchange when writing.

Cleveland, O.

News Notes. The Spring season is opening up to the satisfaction of all our seedsmen; large quantities of lawn seed and fertilizers are being sold. The funeral of Mrs. Casper Aul took place March 28 at her late home on Doan street. Mrs. Aul was a pioneer florist and a great deal of her time was spent at her stand in the market house. She belonged to a number of German societies and was well remembered by them, many florists also sending flowers. The sympathies of the craft are extended to the bereaved family. O. G.

"Stock for Sale" Column Brings Results.

Please insert my advt. in this week's issue. The last advt. brought good results. Thanks. LOUIS SIEBRECHT. New York.

Perennials

Many acres, including all the best commercial and florists' varieties. Send for list with prices.

PALISADES NURSERIES, Sparkill, N.Y.

Mention the Florists' Exchange when writing.

BOBBINK & ATKINS

Nurserymen and Florists

VISITORS INVITED.

Ask for Wholesale Catalogue. RUTHERFORD, N. J.

Mention the Florists' Exchange when writing.

New Privet Golden Yellow Euonymus Japonica

Euonymus Japonica Variegata Euonymus Radicans Variegata Ready as soon as frost is out of ground

S. TAPLIN, Detroit, Mich.

Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED. THE WM. H. MOON CO., Morrisville, Pa.

When in Europe come and see us and inspect our extensive Nurseries. Gouda is our railroad depot. Hardy, Fancy Ornamental Nursery Stock J. BLAAUW & CO. BOSKOOP, HOLLAND Catalogue free on demand. Headquarters for the famous Colorado Blue Spruces—purest, bluest strain

A FEW THOUSAND SEEDLING BERBERIS THUNBERGII, ROSA RUGOSA and ROSA LUCIDA Write for prices.

SIDNEY LITTLEFIELD, North Abington, Mass. Mention the Florists' Exchange when writing.

THE BEST ADDRESS FOR DUTCH BULBS AND PLANTS K. VAN BOURCONDIËN & SONS Wholesale Bulb Growers HILLEGOM, HOLLAND: Until May write to K. H. VAN BOURCONDIËN Care Maltos & Ware, 136 Water St., New York Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS. FINE HEALTHY STOCK

Ready Now. Orders Booked for Future Delivery

Table listing prices for carnation rooted cuttings in various quantities (100, 500, 1000). Includes varieties like White Lawson, Lady Bountiful, Mrs. M. A. Patten, etc.

OWN ROOT. FINE STOCK. Bride, Bridesmaid, Golden Gate. \$4.00 per 100; \$38.00 per 1000.

VERBENAS Best Mammoths, rooted cuttings... \$1.00 \$9.00 CHRYSANTHEMUMS ROOTED CUTTINGS Send for catalogues for varieties and prices.

MISCELLANEOUS Ageratum, Cope's Pet, White Cap. 100 1000 P. Pauline, S. Gurney, L. Bonnet... \$1.00 \$8.00 Achyranthus, four sorts... 1.00 8.00 Cannas, dry roots, named varieties... 2.00 18.00 Coleus, best bedding and fancy sorts... 1.00 8.00 Cupressus... 2.00 18.00 Fuchsia, double and single... 2.00 15.00 Feverfew, double white... 1.50 12.00 German Ivy... 1.50 12.00 Heliotrope, light and dark... 1.25 10.00 Impatiens Sultan... 2.00 15.00 Moon Vine, true white... 2.00 15.00 Salvia, Splendens and Bedman... 1.25 10.00 Salvia, new early flowering sorts... 1.50 12.00 Vinca Variegata and Elegans, 4 in. pots \$10.00 per 100. SMILAX, 2 1/2 in., \$2.50 per 100; \$20.00 per 1000 3 in., \$3.00 per 100. ASPARAGUS SPRENGERI, 4 in. pots, \$10.00 per 100.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as desired. Bride, Bridesmaid, Golden Gate, from 2 1/2 inch pots, \$12.00 per 100. Killarney, \$18.00 per 100; Franz Deegen, from 2 1/2 inch pots, \$15.00 per 100.

WOOD BROS., Fishkill, New York

Mention the Florists' Exchange when writing.

What Constitutes a Herbaceous Plant?

Editor Florists' Exchange:

It might be possible for the regular or average nurseryman to fit a standard as to the height of his trees, and to set up a standard caliper measure of girth; and these two methods will enable him to know what he is buying or selling. But for the average hardy plantsman, caliper measure, or height, is entirely out of the question. And often a very vague impression may be had by the given size of a pot, for the rooting propensities of many hardy plants are exceedingly large, according to the soil and amount of culture they get, as well as the amount of skill employed when potting by the removal, or otherwise, of a large number of these roots and the length of time plants have been in the same pots. I am also persuaded, from years of actual experience, very much doubt exists in many minds, that to grow hardy plants in a nursery row one year before sending them out to customers, undivided, would be a safe rule. It might in some soils and under some conditions, but not under all.

For instance, let us take a helenium first, as suggested in your issue of March 11, page 303. I am now going to give you facts concerning this plant, just as they have occurred with me without any partiality or criticism. Let us plant, say, a helenium of the autumnal type, of the variety *superbum*, which is the most commonly grown nowadays. Before going further, let me say there are at least three distinct types of helenium roots. *Helenium Hoopesii* differs very radically from the others, by having a more woody root growth and not producing its stolons so freely or so numerous. *H. pumilum* has a more spreading, fibrous-rooted growth, throwing out eyes all along its rooting system, which, if dug up and cut into small pieces, soon form small plants; and the more common type, *H. aut. superbum*, a variety of our native Fall flowering sneezewort; let us plant one strong single crown of this, say, about the first or second week in April, in a good, loose, well enriched, friable soil, and give it good cultivation all through the Summer, keeping the soil well stirred, and with plenty of moisture, and what do we get? It is customary to calculate the spread or growth of the roots of a tree by its tops or upper growth. This helenium, under the conditions mentioned, will have made a growth of from 4 to 6 feet in height, according to situation, and a correspondingly large growth, or head, of blooms. Cut off as soon as the flowers begin to wither, to allow the young growths which have begun to accumulate around the base of the parent plant to grow, by late Fall we have a clump nearly a foot across, with a spread of roots nearly a foot more, that will make one man grunt to dig one out, except with a spade, when he can slice it out, destroying or cutting away one-half of the roots. Not that this does any particular harm, except when done in late Fall it is apt to cause the damaged roots to rot, and if plants are divided too close at this period the same thing is very likely to occur.

Now take this same plant, and plant it on a poor piece of even friable soil; cultivate occasionally and keep down weeds, and you will undoubtedly get a good salable piece. Plant the same on a stiff, clayey soil, that is apt to bake and crack during the Summer; cultivate occasionally, keep clean, and you'll get a nurseryman's piece, according to the rule laid down in your issue of March 11. But give this last named soil a thorough good forking, or spading, thoroughly breaking up the soil into fine particles and adding plenty of good stable manure which has a tendency to keep the soil more loose, and keep the ground thor-

oughly cultivated, and you'll get as good results in roots, stolons, or spread of the plants, and larger heads of bloom, and the individual flowers will be larger and have more substance. For my own use I would never plant more than one good, strong, single crown in a place, and these would be at least one foot apart. But I don't say it would be policy only to send out to a customer one crown, as stock is plentiful and easily raised; and good strong divisions, in my opinion, with from two to four or even five good crowns, according to size and strength, would satisfy the most fastidious. One point further here. If you want a succession of these flowers in late Fall, divide late and plant as late as the end of May or even the beginning of June, giving the plants good care till they get thoroughly started, and you can stretch out the flowering period for three or four weeks.

Now let us take an *helianthus* plant of any of the rigidus type, such as *Miss Mellish*, *Daniel Dewar*, or the *Rev. Wooley Dodd*—one of the grandest of this type and deserving a place in any border for its large, beautiful foliage and flowers where space can be afforded it. But give it the conditions first mentioned for helenium, which reproduces itself by densely crowded stolons clustered around the parent plant, and it is curious, nevertheless true, that the parent plant's first object in life is to attain sufficient strength and growth to flower, reproduce itself both by seed and numerous stolons, and then succumb after one year's existence, dying, having made multitudes of seeds and surrounded by its numerous progeny. In *helianthus* the same thing occurs, except, in most cases, the cultivated forms, being hybrids, produce few or no seeds; and, unlike the helenium, instead of its growths, or reproductions, springing up close to the parent plant, they will be found coming up from one to four and even five feet away from it, and this in every direction. A single division, or plant, or put it the makings of a plant if you wish, will have an underground stem, runner or stolon, if dug up whole, from one to five feet long; and a nice task it is to dig them out whole, especially in stiff soils! These underground stolons also produce nodes anywhere from three to eight inches apart; and if cut between the joints, each one will make a plant. Given any one of the other three conditions of culture, the same thing occurs, only the stolons won't be quite as long. Yet it will be impossible to dig what is termed a clump, or send a customer a piece grown one year in a nursery row.

I have seen the woodland sunflower, *Helianthus strumosus*, with quite a different type of root, send out its stolons over three feet. Take *Helianthus multiflorus*; the flowering stems also decay or die annually; but it reproduces itself in a compact number of short tuberous stolons, all closely clustered and interwoven around its base. It is seldom sent out in whole clumps. It is almost impossible, except in very light soils, to dig them out whole; and what experienced man would want to place a whole clump in one position as a single plant? My experience, dating back quite a number of years with this plant, tells me to replant every year, using only a few of the strongest divisions and throwing or giving the rest away. I am thus assured of both finer plants and better flowers. From a nurseryman's point of view, I am persuaded that the best way to handle this plant is to grow it in nursery rows in the Summer, store it in a frame, or cellar, during Winter as it is not a very good keeper; then, if early plants are needed in March, bring some in, divide into pieces suitable for 2½ or 3-inch pots, place in a cool greenhouse, and you will soon have plants that will give the best results. If crowded for room, they may be placed under the outer edge of a bench; but must be brought up to the light as soon as they begin to push well through the soil. Or they can be placed out in a frame and protected until they can get hardened off a little. Another way, and one which I much prefer, is to pot up in early Spring into 3-inch pots, and place outside, plunging in soil, or ashes, and let them



SINGLE BLOOMS OF JAMES E. BEACH'S NEW RED SEEDLING CARNATION

remain there all Summer. The result is, in the Fall you have a solid potful of roots, or tubers, which will hold together and make a very presentable appearance and also give good results and satisfaction to the purchaser. Four-inch pots could also be used if large pieces were desired, and with this method they can be shipped much earlier in the Fall and give better satisfaction than if dug direct from the nursery. The rigidus types may be grown in like manner; being also more easily taken care of during the Winter and can be gotten together much handier during the rush of the packing season.

Of course, I know all *helianthus* have not this running root method, but the majority of them have. I remember aright, *H. Davidiana* and *H. tormentosus* are of a somewhat different nature, but the above are the ones most used, and the same method is very practical for all of them.

Now let us look at *Physostegia virginiana*. I have it growing in a nursery row, planted from single crowns a year ago, in a rather moist piece of ground. They have spread nearly two feet away from the original. While these are not so thickly clustered together as the heleniums, or spread over such a wide surface as the *helianthus*, they are very productive in suitable soil; and each plant has produced from 20 to 30 pieces fit for 3 and 4-inch pots. To dig one of these one-year-old nursery grown plants whole would be an impossibility without breaking it up; and, owing to its dense rooting propensities, many of the individual stolons would be too large for a 4-inch pot without having from one-third to one-half of its roots cut off. Therefore, three to five pieces, or crowns, of this would make a respectable piece to send to anyone. I have never tried it, but I am of opinion that for best results to a customer, if this plant were potted up in early Spring in 4-inch pots, and grown in the same manner as prescribed for *helianthus*, better results would be obtained the first year after planting; for this is one of the plants that must remain undisturbed for two years at least, before best results are obtained. It then becomes much stronger, grows taller, and produces larger spikes of bloom. *P. vir. Alba* is often recommended as a counterpart of the preceding, with the exception of its white flowers; but with me it has always been a much weaker grower. Nevertheless, both are exceedingly desirable, and can be safely classed in the front rank of our herbaceous plants. An enterprising German firm last year introduced *P. vir. cerulea*, which I am very anxious to see in bloom, as I think a good blue *physostegia* of the virginiana type would be an acquisition of great merit. We have two very closely allied forms in *Dracocephalum altense* and *D. Ruschlanum japonicum*, both blue; but these have always proved very shy bloomers with me.

HERBERT GREENSMITH.

(To be continued.)

New Red Seedling Carnation.

The accompanying illustration shows the flower of a new red seedling carnation, also a bench of same, with *Enchantress* on the higher bench, kindly forwarded by James E. Beach, Bridgeport, Conn. Mr. Beach says: "It has looked like that all Winter, never being off crop, producing flowers from 3 to 3½ inches across. The variety is a cross of Mrs. George M. Bradt and *Estelle*. The color is a bright Christmas red, like that of G. H. Crane."



BENCH OF JAMES E. BEACH'S (BRIDGEPORT, CONN.) RED SEEDLING CARNATION; ENCHANTRESS ON HIGHER BENCH TO LEFT

Dreer's Select List of HARDY PERENNIALS

We offer here only the most Showy and Decorative Sorts, including varieties suited for CUT FLOWER purposes. These varieties are marked with an asterisk (*).

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List.

This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

Table listing various Hardy Perennials with columns for plant name, pot size, and price per dozen and per 100. Includes plants like Acanthus Mollis, Achillea Filipendulina, and many others.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Ready from Soil.
All Good Stock,
in Fine Condition

White		White		Pink		Yellow	
Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000
Estelle	\$2.00	White Mayflower	\$2.00	Cobbolt, new	\$3.00	Monrovia	\$2.00
Kalb	2.00	Ivory	2.00	J. A. Balfour, new	3.00	Yellow Eaton	2.50
Robinson	2.00	Jerome Jones	2.00	Perrin	2.00	Major Bonnafton	2.00
Polly Rose	2.00			Marie Liger	2.00	Col. D. Appleton	2.00
Wanamaker	2.00	Pink		Lavender Queen	2.00	Yellow Jones	2.00
Eaton	2.50	Duckham	3.00	Richardson	2.00	Yellow Mayflower	2.00
White Bonnafton	2.00	Pacific	2.00	Murdoch	2.00	Golden Beauty	2.00
Snow Queen	2.00	Plak Ivory	2.00	Vivlaad-Morel	2.00	Mourner	2.00
Harry Plumridge, new	3.00	M. Newell	2.00	Yellow-October Sunshine	2.00	Golden Wedding	2.50
		J. K. Shaw	2.00				

Write for Prices on Chrysanthemums in Larger Quantities

CARNATIONS

All in Fine Condition
Well Rooted

PINK.		RED.		WHITE.	
Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000
Mrs. T. W. Lawson	\$1.50	Estelle	2.50	Flora Hill	1.00
Guardian Angel	1.00	Chicago	2.00	White Cloud	1.25
				Harlowarden	2.00

ROSES

Young Stock, ready to ship, out of
2 1/2 in. pots. Fine, Healthy Stock

Per 100		Per 1000	
Bride	\$3.00	Golden Gate	\$3.00
Bridesmaid	3.00	Mme. Abel Chatenay	3.00
Meteor	4.00	Kaiserin	4.00

WIETOR BROS., 51-53 Wabash Avenue, CHICAGO, ILL.

Mention the Florists' Exchange when writing.

THE MONEY-MAKING CHRYSANTHEMUMS ARE

POMPONS

They are becoming very popular, and a necessity to every florist. To reduce a large stock WE MAKE THE FOLLOWING OFFER, for only a few days:

Our Selection from the Best Varieties for Florists' Use,

\$2.50 per 10; \$20.00 per 1000.

NATHAN SMITH & SON, - Adrian, Mich.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings from cool grown stock of the following varieties

AMERICAN BEAUTY, globular, dark pink; WM. DUCKHAM, DR. ENGUEHARD, \$4.00 per 100.

PERRY MONARCH, white and yellow; WILLOWBROOK, POLLY ROSE, PACIFIC, R. HALLIDAY, IVORY, ROBINSON, NELLIE POCKETT, BONNAFTON, YELLOW EATON, LINCOLN, MAUD DEAN, MERRY CHRISTMAS, \$1.50 per 100; \$12.50 per 1000.

Cash with order, please.

G. F. NEIPP, Jamaica P. O. Woodhaven Station
Aqueduct, L. I., N. Y.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings, of Wm. Duckham, Dr. Enguehard, Ben. Welle and Donald McLeod, \$3.00 per 100; 2 in. \$5.00 per 100. Send for complete list. 5 per cent. discount for cash with order.

R. ENGELMANN & SON, PITTSFIELD, MASS.

Mention the Florists' Exchange when writing.

Chrysanthemums

ROOTED CUTTINGS

Lor Hopetoun, Ben Wells, Oloboos Alba, Alice Byron, Lella Filkins, E. Bonnefond, Cecil Cutts, Vivland-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Nellie Pockett, Percy Burdette, Harry Plumridge, A. J. Balfour, M. Lamond, Thirke, White Bonnafton, Mrs. Chamberlain, Ethelyn, C. H. Diedereiche, Dr. Enguehard, Cheltoni, Ida Barwood, S. T. Wright, Chevrant, \$3.00 per 100

Monrovia, Willowbrook, Omega, Opah, Polly Rose, Gl. Pacific, Bonnafton, Mrs. Jerome Jones, Yellow Jones, Col. Appleton, Timothy Eaton, Yellow Eaton, Mrs. Robinson, Lady Harriet, Halliday, F. S. Vallis, Mrs. Coombes, Cinnas, Mrs. T. M. Pickett, Marie, Liger, M. Douillet, Paul Sabut, R. H. Pearson, Dalekov, Ivory, Bousse, M. Richardson, Tancred Bastett, Fee Du Champaur, Mrs. Perrin, Mrs. Weeks, Col. Powell, Mayflower, C. J. Salter, Bada Bewell, White Maud Dean, Golden Wedding, Marian Newall, Chadwick, Mounier, \$2.00 per 100.

CARNATIONS

ROOTED CUTTINGS.

Per 100	Per 1000	Per 100	Per 1000
Lady Bountiful	\$6.00	Harry Fenn	\$2.50
The Belle	6.00	Adonis	2.50
Flamingo	6.00	Lawson	1.50
Nelson Fisher	6.00	Prosperity	1.50
Mrs. Patten	6.00	Gov Wolcott	1.50
Enchantress	3.00	White Cloud	1.50
Manley	3.00	Floriana	1.50
Boston Mark	2.50	Joost	1.00

FERNS - Boston Ferns, 2 1/2 in., \$4.00 per 100; 3 in., \$5.00; 4 in., \$12.00; 5 in., \$20.00; 6 in., \$40.00; 7 in., \$90.00. We have an especially large quantity of 2 1/2 and 3 in. sizes.

Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.

Mention the Florists' Exchange when writing.

Chrysanthemums

Dr. Enguehard, Mrs. T. W. Pickett, Cheltoni, Mrs. C. J. Salter.

Transplanted cuttings from soil, \$5.00 per 100. Rooted cuttings from sand 4.00 per 100.

Wm. Duckham, Alice Byron, Goldmine, Carlington, Yellow Jones, Yellow Eaton, A. J. Balfour, Merry Christmas, W. Bonnafton.

Transplanted cuttings from soil . . . \$4.00 per 100
Rooted cuttings from sand 3.00 per 100

Mutual Friend, Nellie Pockett, G. S. Kalb, Bergman, Mrs. J. Jones, Mrs. H. Robineon, Eaton, White Ivory, Polly Rose, McArthur, Whittin, Halliday, Bonnafton, Marion Henderson, Appleton, Golden Wedding, W. H. Lincoln, Mrs. Chamberlain, Pink Ivory, J. K. Shaw, Maud Dean, President Smith, Helen Bloodgood, Glory of the Pacific, The Harriot, Intensity, Black Hawk.

Transplanted cuttings from soil . . . \$2.00 per 100
Rooted cuttings from sand 1.50 per 100

GARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$1.50 per 100, \$12.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Prosperity, Fair Maid, \$2.00, \$15.00 per 1000; Harry Fenn, Harlowarden, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.00 per 100, \$25.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000. 250 at 1000 rate.

ROOTED COLEUS CUTTINGS

Golden Bedder, Firebrand, Verschaffeltii and mixed colors, 75c. per 100, \$6.00 per 1000.

ROSES

2 1/2 in. pots, \$3.00 per 100, \$25.00 per 1000.
Bride, Bridesmaid, Ivory and Golden Gate.

GRAFTED ROSES

On imported English Marretti Stock, nothing but flowering wood used. Bride and Bridesmaid, Golden Gate, \$10.00 per 100; \$100.00 per 1000. Liberty, \$12.00 per 100; \$120.00 per 1000.

JAMES E. BEACH,
2019 Park Avenue, BRIDGEPORT, CONN.

Mention the Florists' Exchange when writing.

THE AMERICAN GARNATION

Price, \$3.50

FLORIST'S EXCHANGE, 2 DUANE ST., NEW YORK

CHRYSANTHEMUMS

ROOTED CUTTINGS

It is cheaper to buy rooted cuttings now than pot plants next month.

Per 100		Per 1000	
Wm. Duckham	\$3.00	Miss Alice Byron	\$2.00
Black Hawk	1.50	Nellie Pockett	2.00
Appleton	1.50	Mrs. H. Robinson	1.75
Cremona	1.50	Mutual Friend	1.50
Dazzler	2.00	October Sunshine	1.50
Glory of Pacific	1.50	Polly Rose	1.75
Lady Fitzwygram	1.50	Timothy Eaton	1.75
Bonnafton	1.50	White Bonnafton	1.50
Maud Dean	1.75		

CARNATIONS

ROOTED CUTTINGS

Per 100		Per 1000	
Prosperity	\$2.00	Glory of Pacific	\$3.00
Bradford	2.00	Polly Rose	3.00
Maceo	1.50	Bonnafton	3.00
Queen Louise	1.50	Jones	3.00
Gov. Wolcott	1.50	Col. D. Appleton	3.00
May Naylor	1.50	Peter Kay	3.00
Joost	1.25	Merry Christmas	3.00
Eldorado	1.25		
Enchantress	3.50		
Scott	1.25		

GRAFTED BRIDE AND BRIDESMAID ROSES

\$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR, SOUTHPORT, CT.

Mention the Florists' Exchange when writing.

Early Struck Plants

OF EARLY 'MUMS

\$2.50 per 100

(For Complete List of New and Old Varieties send for catalogue.)

CARNATIONS

Sturdy Little Pot Plants from Best Cuttings

Boston Market	\$2.50 per 100	The Queen	\$3.00 per 100
Gov. Wolcott	3.00	Geo. H. Crane	2.50
Indianapolis	4.00	Glacier	2.50
Mrs. E. A. Nelson	2.50	Lorna	2.50
Mrs. Lawson	2.50	Floriana	2.50

Send for prices on large lots

SMALL PALMS, from 2 1/2 in. pots

Kentia Belmureana	\$3.00 per 100
Areca Lutescens	4.00
Latania Borbonica	3.00
Coccoloba Weddelliana	8.00

The Storrs & Harrison Co.

PAINESVILLE OHIO

Mention the Florists' Exchange when writing.

LIST OF ADVERTISERS

Table listing various florists and their addresses, including Akers H R., Allen J K., Anderson & Christen, Andrews J K., Aschmann G., and many others.

Table listing florists and their addresses, including Stearns A T Lum Co., Stelhoff H C., Stoothoff H A., and others.

Table listing florists and their addresses, including Vesey W J & M S., Vlek's Sons, Vincent R Jr, and others.

Contents.

Table listing various florists and their addresses, including American Rose Society, Business Difficulties, Canadian News, and others.

INDEX TO STOCK ADVERTISED

Table listing various plants and their prices, including a. col. 1; b. col. 2; c. col. 3; d. col. 4. Includes items like Abutilon, Achillea, and various flowers.

New York.

The Week's News. The few warm days that we have had have brought forth the plant and bulb peddler in all his glory, and once more Vesey street is in full blossom.

WASHINGTON, D. C.—Z. D. Blackstone had a large decoration on Tuesday. The church was decorated with palms, Lillium Harrisii and Astilbe Japonica.

Professor John F. Cowell, of the Buffalo Botanical Garden, who is making a collection of plants in the Republic of Panama for the New York Botanical Garden, has commenced shipping specimens, and a large box of orchids, aroids and representatives of other tropical groups of plants has already been received in good order.

Easter Lilies.

Long, white processions in the guise of hooded sisters, prophet-wise, Have come to celebrate this day. They grace the vast cathedrals all, And seek the proudest palace hall;

CATALOGUES RECEIVED.

BOBBINK & ATKINS, Rutherford N. J.—General catalogue of nursery and florists' stock, including all the novelties. Profusely illustrated. The nurseries of this firm now comprise over one hundred acres, stocked with everything necessary for the complete planting and beautifying of grounds and gardens, while the range of greenhouses, storehouses, etc., cover 60,000 square feet.

ROOTED CUTTINGS CARNATIONS

10,000 Enchantress, Prosperity, Joost and Lawson No reasonable offer will be refused on the lot JULIUS DETMER, Freeport, N. Y. Mention the Florists' Exchange when writing.

THE BEST BY FAR.

"I consider it would be a hard matter for me to do without THE FLORISTS' EXCHANGE, for I think it is by far the best trade paper there is printed." PETER CROWE. N. Y., June, 1904.

NOW READY

WHITE LAWSON

Flamingo Nelson Fisher Crusader
\$6.00 per 100; \$50.00 per 1000.

The Three Grand New CHRYSANTHEMUMS,
MAJESTIC, ADELIA and MADONNA

Rooted Cuttings, \$3.00 per doz.; \$15.00 per 100. From 2 in. pots, \$20.00 per 100.

Three Fine SNAPDRAGONS,

Our GIANT PINK, a Grand WHITE and a Fine YELLOW
\$6.00 per \$100; \$50.00 per 1000.

The Fine New PINK ROSE **LA DETROIT**

2½ in. pots, \$8.00 per 100; \$75.00 per 1000.

The New Red **GENERAL MACARTHUR**

2½ in. pots, \$8.00 per 100; \$75.00 per 1000.

JOHN BREITMEYER'S SONS, DETROIT, MICH.

Mention the Florists' Exchange when writing.

ROSES

From 2½ in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000. Clothilde Souper, best bedding and pot rose. Pink Maman Cochet, fine for Summer blooming. White Maman Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio

MacArthur Rose

Extra Strong, \$10.00 per 100; \$90.00 per 1000.

Chatenay Rose

First-class Stock, \$3.00 per 100; \$25.00 per 1000.

THE GASSER COMPANY
Euclid Avenue, Cleveland, Ohio

Mention the Florists' Exchange when writing.

HARDY ROSES

We have an extra fine large stock of all kinds

Rosa lucida
Rosa lucida alba (very fine)
Rosa setigera
Rosa Dawson

SEND FOR CATALOGUE AND PRICES.

EASTERN NURSERIES

M. M. DAWSON, Manager
JAMAICA PLAIN, MASS.
Mention the Florists' Exchange when writing.

ROSES—H. P., H. T., T.,

And Others. Choice Plants, Prefuse Roots, 2½ and 4 in. Special prices by return mail on 100 to 1000 lots.

NO Misrepresentation NO Substitution NO Delay

THE LEEDLE FLORAL EXPERT ROSE GROWERS
LEEDLE COMPANY SPRINGFIELD, O.

Mention the Florists' Exchange when writing.

ROSES

2½ in. BRIDE and BRIDESMAID, clean, vigorous stock, ready for shift or planting. Order now and get the pick of 10,000 of them.

\$3.50 per 100; \$30.00 per 1000.

PITTSBURG ROSE & CARNATION CO.
FRED. BURKI, President

Crystal Farm, Gibsonia P. O., Pa.
Mention the Florists' Exchange when writing.

ROSES

2-year old, 4 in. pots, \$8.00 per 100. American Beauty, 4 in. pots, \$12.00 per 100. Roses, 2½ in. pots, \$2.25 per 100, \$20.00 per 1000. Carnation Richmond Gem, 2½ in., \$10.00 per 100. Also other good varieties, \$2.50 per 100, \$20.00 per 1000. Asparagus Sprenger, 2½ in. pots, \$2.50 per 100; 4 in. pots, \$10.00 per 100. Alternantheras, \$2.00 per 100, \$18.00 per 1000. Hardy Pinks, Hardy Phlox, 3 in., \$4.00 per 100; 2 in., \$2.50 per 100. Heliotropes, Salvias, Periwinkle, English and German Ivy, Fuchsias, Chrysanthemums, Ageratum, Flowering Begonias, Sweet Alyssum, Shasta Daisies \$2.50 per 100. Send for list.

THE NATIONAL PLANT CO., Dayton, Ohio
Mention the Florists' Exchange when writing.

60,000 GRAFTED ROSES For Forcing

THE FINEST CROWN

Orders booked now for delivery in April, May and June

LIBERTY Rose pots, \$12.00 per 100; 3½ inch pots, \$18.00 per 100
BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN
Rose pots, \$10.00 per 100; 3½ in. pots, \$15.00 per 100

500,000 VERBENAS 60 Varieties

THE LARGEST AND FINEST STOCK IN THE COUNTRY
Perfectly Healthy No Rust

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
Plants 2½ in. pots, \$2.50 per 100; \$20.00 per 1000

J. L. DILLON Bloomsburg, Pa.
Mention the Florists' Exchange when writing.



ROSES

2½ in. pots, strong plants, Bridesmaid, Bride, White Cochet, \$2.50 per 100; \$20.00 per 1000. Golden Gate and Ivory, 3 in. pots, \$5.00 per 100; \$40.00 per 1000. American Beauty, 2½ in. pots, \$5.00 per 100; \$40.00 per 1000; 3 in. pot plants, \$6.00 per 100; \$50.00 per 1000.

Strong two-year-old, 5 in. pot American Beauty, good for Easter, \$25.00 per 100. Cochet, pink and white, 4 in. pots, \$15.00 per 100. Bridesmaid and Bride, 4½ in. pots, strong, bushy plants, \$17.00 per 100.

CHAS. W. REIMERS

Crescent Hill
LOUISVILLE, KY.

We are still booking orders for own root plants

OF

THE NEW ROSE

WELLESLEY

We have a very fine lot in 2½-inch pots at
\$25.00 per 100

Having decided to increase our planting of "Wellesley" we have several thousand first-class grafted

Bride and Bridesmaid Roses

in 2½-inch pots, which we intended for our own use, and which are now offered for sale at \$10.00 per 100.

1000 rate on application.

Waban Rose Conservatories

NATICK, MASS.

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

April 1, 1905

St. Louis.

News Notes.
A. Benthey, of The Benthey-Coatsworth Company, Chicago, spent a few days with the local trade last week.

A new wholesale house will be opened this week by George Augermuller, late bookkeeper for C. A. Kuehn, the location being 1324 Pine street.

Johanne Burke, who so long was located at Grand and Finney avenues, sold out the past week to W. H. Miller, Jr. Mr. Miller is a newcomer. Mr. Burke will shortly leave the city with his family for a trip to California and may locate there, opening a flower store in one of the large cities of that State.

The Riessen Floral Company, Broadway, reports an exceptionally busy week in funeral work. Manager Buechel is again at his post after a fourteen weeks' confinement to his room with a broken limb.

Young Sons' Company are very busy now in their seed, bulb and plant departments; shipping orders in these lines are coming in heavily.

J. F. Windt's arm is improving somewhat. Blood poisoning had set in.

Robert Meinhardt, cousin to Fred Meinhardt, is now employed as bookkeeper for C. A. Kuehn.

W. R. Stocke, formerly overseer of greenhouses, and Frank Bucksah, Jr., formerly overseer of the sunken gardens, World's Fair, have formed partnership under the name of Stocke & Bucksah to do a general florist and landscape business at 3817 Lincoln avenue.

The bowling Monday night was quite lively. Ellison was high man, with 538 in the three games; Beneke, second, with 483. Nine members rolled.

ST. PATRICK.

Portland, Ore.

The Lewis and Clark Exposition.

As the building up of the Lewis and Clark Exposition progresses it becomes more evident that some effort should be made by Eastern firms for representation on the grounds. An attendance far beyond early expectations is assured—conservatively, one and one-half millions—and the greater number of visitors will come from localities well worth catering to. Mr. Henry E. Dosch, director of exhibits, and a well-known horticulturist, will gladly furnish information on the subject.

Contrary to usual climatic conditions, the past two months have been clear and with lots of sunshine. The man with the spade is busy, also the street peddler, from whose wagon can be had anything from a scaly palm to a bunch of fresh Oregon violets.

Florists have had a good season, Clarke Bros. reporting the best in years. Bulbous stock is more than plentiful, but serves a good purpose in the show windows, even if it is dumped to-morrow. Pfunder makes a pretty show of separate colors, and Martin & Forbes one of wholly yellow and red. Mr. Wilkinson, of Gladstone, has taken a partner and will extend his operations.

It is more than probable that a large wholesale plant will be erected this Summer in one of the suburban districts, land having been acquired for that purpose.

J. H.

CHESTER, PA.—M. J. Dwyer, Third and Flower streets, has just completed some extensive alterations to his place of business. His office has been repainted and enlarged and two large show windows have been put in.

ROSES

American Beauty, 2½ in. pots, \$6.00 per 100; \$50.00 per 1000. Liberty, 2½ in. pots, \$6.00 per 100; \$50.00 per 1000. Strong, healthy stock.

E. TOWILL, HILLSIDE PA. ROSLYN P. O.
Mention the Florists' Exchange when writing.

ROSES

American Beauty, 2½ in., \$5.00 per 100
La Detroit, 2½ in., strong, 8.00 per 100
Liberty, 2½ in., extra strong, 5.00 per 100
Bride and Bridesmaid, 2½ in., 4.00 per 100
STRONG, HEALTHY STOCK.

BUTZ BROS., New Castle Pa.
Mention the Florists' Exchange when writing.

2000 CHATENAY

FOR SALE

Fine Plants

2½ inch pots, \$4.00 per 100

Cash with order, please

BENJAMIN DORRANCE

DORRANCETON, PA.

Mention the Florists' Exchange when writing.

Grafted Roses

Bridesmaid, Bride, Bon Silene and Safrano, \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbold, \$2.50 per 100.

STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses
NEWTONVILLE, MASS.

Mention the Florists' Exchange when writing.

READY NOW

Gen. MacArthur

THE most prolific flowering Red Rose in the market to-day. Grows freely in same temperature as Bride or Bridesmaid, and will produce fully as many first class flowers as either.

2½ in. pot plants, with roots, \$10.00 per 100, \$80.00 per 1000.

Strong grafted stock from 3 in. pots, \$12.00 per 100.

The Storrs & Harrison Co.
PAINESVILLE, OHIO

Mention the Florists' Exchange when writing.

MARKETING TAGS!

FOR CUT FLOWERS.

JUST WHAT YOU NEED.

For Sample and Prices, Address

THE FLORISTS' EXCHANGE, 2-3 DUANE ST., NEW YORK.

Mention the Florists' Exchange when writing.

Walsh's New Hybrid Ramblers



HYBRID WICHURIANA ROSE, LADY GAY
Copyright, 1905, M. H. Walsh

Their profusion of bloom in the various colors, their wealth of dark green foliage and their graceful habit of growth, make them indispensable as hardy decorative roses.

Largest number of varieties best adapted for garden culture in the Hybrid Perpetual, Hybrid Tea, Rugosa and their Hybrids, Lord Penzance Sweet Briar and Austrian Yellow; the new dwarf ever-blooming Rambler, Mme. N. Levasseur; my new seedling everblooming Rose "Urania" and other novelties. Double Hollyhocks, Peonies and Perennial Phlox.

Place your orders early.

M. H. WALSH, Rose Specialist
WOODS HOLE, MASS.

Mention the Florists' Exchange when writing.

ROSES

CARNATIONS and CHRYSANTHEMUMS

Write For Prices

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

UNFIT FOR PUBLICATION

are the prices we will quote on large lots of the following Roses

STRONG, FIELD-GROWN PLANTS, ON OWN ROOTS

CRIMSON RAMBLER
DOROTHY PERKINS
LA FRANCE

PRICE, FOR MODERATE QUANTITIES

(and not less than 25 of a kind)

\$9.00 per 100

IF YOU CAN USE 500 OR MORE OF ANY ONE KIND, get our special prices. They will surprise you. We are over-stocked with these kinds and the first comers get the benefit. They are fine stock.

Send for our complete price list. There are other bargains in it. Use printed stationery. We send it only to the trade.

JACKSON & PERKINS CO. NEWARK, NEW YORK

Mention the Florists' Exchange when writing.

"Absolutely Safe and Reliable. Ask your Friends."

Progressive Florists and Nurserymen
Everywhere Endorse

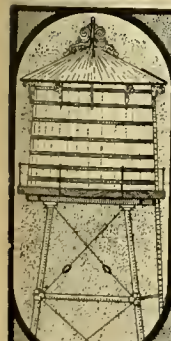
Caldwell Cypress Tanks and Caldwell Steel Towers

They know they can depend on having an ample supply of water at a uniform pressure. Careful construction by skilled mechanics and the best material preclude all possibility of leaks or collapse.

You will be interested in our CATALOGUE and PRICE LIST

W. E. CALDWELL CO., Louisville, Ky.

Mention the Florists' Exchange when writing.



FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsmen and the Trade in general

Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

News of the Week in Brief.

The Law Floral Company, of Shelbyville, Ind., is in financial difficulties.

The Killarney rose is becoming a very popular variety with some of the Boston retailers.

O. Sasse, a retired florist of Milwaukee, Wis., was last week run over by a street railway car and killed.

An effort is making to have a joint meeting of the American Carnation Society and the American Rose Society at Boston next year.

English growers of carnations are going in quite heavily for American varieties. Some consignments went from Syracuse, N. Y., last week.

A request is made that Eastern florist and nursery firms be represented by plantings on the grounds of the Lewis and Clark Exposition at Portland, Oregon.

Alexander Montgomery, of Natick, Mass., has been re-elected president of the American Rose Society. Boston was again selected as the place of meeting for 1906.

The florists and seed growers of Southern Europe are having hard times. To such an extent have those on the Riviera suffered that the Mayor of Nice has started a public subscription to save them from absolute ruin.

The American Peony Society will hold its annual exhibition and meeting in the banquet hall of the Auditorium Hotel, Chicago, Friday and Saturday, June 17 and 18. A substantial premium list is in preparation; it is expected the amount offered in prizes will be between \$700 and \$800. J. B. Deamud, 51 Wabash avenue, Chicago, will manage the show. The secretary of the American Peony Society is A. H. Fewkes, Newton Highlands, Mass.

BENJAMIN HAMMOND, the "Slug Shot" man, of Fishkill-on-Hudson, N. Y., has issued in attractive booklet form the address delivered by President J. C. Vaughan before the S. A. F. O. H., at St. Louis, last August on "The Ideal Employee." An excellent likeness of the author forms a frontispiece. Mr. Hammond also pays an eloquent tribute to his late faithful employee, "The Deacon"—Edwin R. Baldwin, whose portrait is also given in the booklet.

A Correction.

In Mr. Horne's letter on "Horticulture in Jersey, Channel Islands," page 374 of last week's issue, read, for Baldwin, "Bartlett," and Williams' Bon Chretien, not as first printed.

The American Rose Society.

A magnificent exhibition, and a very successful gathering, characterized this year's meeting of the American Rose Society at Boston. This, indeed, is most gratifying. But the trade's enthusiasm in the society and its work, although increasing, has not nearly reached the point expected or deserved. Of preachments and odious comparisons as to what should be done, and what is accomplished by other societies, we have had about enough. What is wanted, needed, and should be afforded is allegiance and real practical work on the part of every rose grower in America, who not only should affiliate with the society himself, but get every one of his interested customers to do the same. From and by this support only can the society do its best for the flower it champions and those who grow and love it.

There may be another twinge of regret among the Western brethren that the association continues to hug the East. In this we are inclined to participate. But when the society in its wisdom does decide to meet in some Western city we hope it will make its visits there as frequent as it has done to chosen Eastern points. In the meantime, let the Western rosarians lay well to heart President Montgomery's words—and live in hope. The fact that the West has not yet been selected as the seat of the society's annual operations, however, should not, in any degree, alienate the support of the occidental rosarians from the organization, for they, equally with the rose growers east, north and south, share, indirectly, in the benefits accruing from the Rose Society's labors.

From our report of the proceedings at Boston, it will be seen that the efforts of the members, in convention assembled, were more particularly directed to a discussion of the best ways and means of interesting the amateur in the growing of roses and also in the society and its work. To that end it is proposed to issue bulletins, etc., giving selections of varieties and methods of culture. This is good enough in its way; but it will have a more telling effect if the contents of such bulletins (or at least part of them) can be got before the public through the media of the amateur horticultural publications and the daily press. Doubtless, however, the committee in charge of this matter will do its work in such manner that the greatest good will spring therefrom.

The next important thing for the society to consider is the holding annually of a Summer show of outdoor-grown roses, as originally planned, on its own account, and the encouragement of similar shows, under the organization's auspices, throughout the country. The amateur rosarian is likely to become more interested in an exhibition in which he himself can take part, than in the mere admiration of exhibits displayed by men whose business it is to grow the rose to its greatest perfection under glass. The medals of the society, offered at such Summer exhibitions, to be competed for and awarded to members of the Rose Society only—for a time at least—would be a step in the direction of augmenting the membership, as well as stimulating interest in the association.

We sincerely hope that the American Rose Society will be able to demonstrate in the most practical manner that it is possible for trade and amateur interests to harmonize and be successfully catered to by a national horticultural organization. That condition will the sooner materialize if the tradesman himself will first show his own recognition of the merit of the society by becoming affiliated therewith; and, through the society's work, prove that the furtherance of the rose, and the interest of every lover thereof, is the mission sought to be fulfilled.

The society has done well to hold on to its present presiding officer. That his earnest work on behalf of the association the past year has borne good fruit was clearly in evidence at the recent meeting and exhibition. It is men imbued with a spirit like unto that of Mr. Montgomery who succeed because they do things. That his fellow-rosarians, whose utmost support he deserves and should receive, may profit by and follow his example, is our wish, for on such a consummation hangs the future welfare of the American Rose Society.

Our esteemed contemporary, The Weekly Florists' Review, of Chicago, evidently thinks there is something wrong with the wholesale florist business, for it would censure, or blame, an "accredited representative" of a trade paper for being legitimately and openly employed as a solicitor for one of those concerns. Well, well, what next?

Are "accredited representatives" of trade papers, whose full time is not employed (or remunerated) in newspaper work, to be debarred from engaging in another honorable occupation, in order to help them earn a livelihood? If our contemporary doesn't know the rights of the individual in such matters, let him get the opinion of his accredited Eastern "manager" thereon. But why he should draw the line at the wholesale florist business is beyond our comprehension! There are some good fellows in that business, both owners and employees, who are making excellent newspaper representatives—accredited and otherwise; therefore, why hold up that honorable branch of the business as one to be avoided by publishers looking for faithful and honest correspondents?

Testimonial to Henry Eckford.

In last week's issue (page 359) our valued correspondent, "European Seeds," called attention to the fact that a movement is on foot, in England, to present a testimonial to the veteran sweet pea specialist, Henry Eckford, of Wem, Shropshire.

In the furtherance of such a worthy object, we believe the American florists and gardeners would be willing and anxious to join, and to that end, The Florists' Exchange will gladly receive and acknowledge any and all subscriptions that may be forwarded to us toward the laudable end in view.

The sweet pea as a garden subject has attained a popularity in this country, as well as in England, reached by but few other flowers, and, although its improvement owes much to the work of our own hybridizers, there can be no question that they in turn have benefited greatly by the labors of Eckford, whose strains have formed the groundwork for the American plantsman's development of this charming annual.

The man whom his coworkers and admirers now seek to honor is a Scotchman. The London Garden dedicated its 1896 volume to Mr. Eckford, and from the dedicatory notice appearing in that journal at the time we take the subjoined particulars of his career, as well as the accompanying portrait:

Henry Eckford was born at Stonehouse, in the parish of Liberton, near Edinburgh, on May 17, 1823. In December, 1839, he was sent as an apprentice to the gardens of Lord Lovat, Beaufort Castle, Inverness, where he remained for three years. He returned to Edinburgh and then went to New Liston, the seat of Mr. James Hogg. He subsequently was employed as foreman in the following gardens: Fingask Castle, Perthshire; Penicuik House, Midlothian; and Oxenford Castle. In the beginning of 1847 he arrived in London with a letter of introduction from Mr. McNab, of the Edinburgh Botanic Gardens, to Mr. Hugh Low, by whom he was sent as foreman in the gardens of Colonel Baker at Salisbury, then under the management of Mr. Dodds, who will be remembered in connection with the improvement of the dahlia and other florists' flowers. He remained here for two years, afterwards serving under Mr. Fleming in the gardens at Trent-ham, and going thence to Caen Wood, Highgate. In 1854 he was appointed head gardener to the Earl of Radnor at Coleshill, Berks, where during his stay of twenty years he raised many dahlias, pelargoniums, and verbenas, which were for the most part sent out by the late Mr. Keynes, of Salisbury. In the year 1878, Dr. Sankey, who was an enthusiastic florist, invited Mr. Eckford to take charge of his gardens at Sandywell, Gloucester, with the view to raising seedlings of florists' flowers. At this time improvement in sweet peas had not been thought of, and in 1879 he obtained the best varieties of edible peas and various sweet peas. He soon set to work and raised many fine varieties of edible peas which are a gain in our kitchen gardens at the present day.

To him, as we have said, is due the great improvement that has been made in the sweet peas, these more particularly having had his special attention of late years. The sweet pea is the most valuable of all annual flowers of the present day; its delicious perfume, its diversity of lovely colors, its lengthened succession of bloom, and its value for cutting entitle it to a place in every garden. In order to obtain the best results from sweet peas, Mr. Eckford sows very thinly, with the result that each plant branches out and forms quite a bush. If gardeners would only sow their sweet peas and edible peas as well thinly in good soil, they would be astonished at the results. By thin sowing we get fine flowers and in abundance.

The work of Mr. Eckford with the sweet peas shows how much may be done with simple and often neglected things in our gardens. The sweet pea certainly was always one of the most valued of flowers, but now, with so many delicate and lovely hues, sweet peas are a garden of beauty. Who knows how many other things in our gardens may not have in them the germs of like improvement? Even some of the shrubs that now only have one aspect for us may some day show us a like variety. In any case, we owe many charming things for our open-air gardens to Mr. Eckford, and wish him many happy years more of his charming and useful work.

As we have stated, we believe we have only to bring to the attention of our readers the fact that our English brethren are preparing to show their appreciation of the veteran gardener's labors, in order that the movement receive a hearty and practical endorsement on this side of the Atlantic as well.

Freesia Purity.

Editor Florists' Exchange:

I send by mail a few sample blooms of my new freesia, Purity. The flowers with the longest stems were produced from large bulbs, and those with the short stems from bulbs not larger than a dried wax bean, showing that the size of the bulb makes scarcely any difference in size of flower, only the length of the stems.

Long Island.

R. FISCHER.

The blooms received were the longest stemmed and the largest individual flowers we ever saw, and they possessed that full fragrance so peculiar to the freesia. The stems were from 18 to 24 inches in length, and this characteristic should insure for the variety a welcome to the list of florists' flowers for winter forcing.—Ed.]

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.—The annual meeting of the executive board will be held at the New Willard Hotel, Washington, D. C., on Tuesday, April 4, 1905. Members of the society or others having suggestions to make whereby the usefulness of the organization may be increased and the good of the profession promoted in any of its branches, are cordially invited to send such suggestions in care of the secretary and they will receive careful attention. Address 11 Hamilton Place, Boston, Mass. WM. J. STEWART.

OUR READERS' VIEWS

New Species of Dahlia.

Editor Florists' Exchange:

I want to make a correction in an article I noticed in your issue of the 18th ultimo, page 337. Your correspondent, "M. C.," refers to a new species of dahlia which we have in the greenhouse, but he should have stated that the crosses were made by George W. Oliver and not by myself. A. J. PIETERS.
U. S. Dept. of Agriculture, Botanist in Charge.
Washington, D. C.

San Jose Scale.

Editor Florists' Exchange:

I was interested in the discussion in your columns some time ago regarding the spread of that terrible pest, the San Jose scale, the old theory of the spread by birds' feet being that set forth. It has always appeared to me that there must be some other way, and one suggested by a brother gardener appears to have some weight. His claim is that much of the work of dissemination is done by bees while fruit trees are in blossom, the scale being carried along with the pollen upon the legs of the bee. This theory, however, does not suggest a remedy, as the bee is necessary for the pollination of fruits.
Newport, R. I. ALEXANDER MacLELLAN.

Watering Carnations.

Editor Florists' Exchange:

In your issue of March 11 I noticed Chas. Knopf's notes about carnations. He writes: "Keep a close watch on your young stock for next year. Go over the plants three times a day and see that they are not too dry, and still not too wet."
"Go over your young plants three times a day!" Think of it! Such advice is misleading. It may be practicable on a small place, but it is unnecessary and impracticable on a large one. On many of the large commercial places, where they grow carnations in quantity, one man simply could not go over the young plants three times in one day and water only the dry ones each time. It is true that sometimes we have to go over the young plants and water the dry ones only. I think if a man has charge of young carnations, and cannot keep them watered evenly (not allowing them to suffer from extremes) without going over them three times a day, he is more fit to handle a hoe than a hose. G. W. FRENCH.
Morton Grove, Ill.

Pole Lima Beans.

Editor Florists' Exchange:

As regards the pole Lima bean manifesting a change in its nature due to the method of cultivation in California of not using poles, allow me to say that I believe that the cases in question were plants that were obtained from common grocery beans. In other words, I mean that the seed that was planted was commercial stock, shipped on by the hundreds of carloads to be sold in grocery stores for table use. Those who grow Lima beans in California for seed purposes are very careful in the selection of the seed they use. Their crops are rogued, etc., but such is not the case when the crop is destined for ordinary consumption; just so it is a Lima bean and it answers the purpose, whether there was a mixture or not in the crop. The pole Lima variety is not losing its climbing habit, any more than does the pea its tendrils when grown generation after generation by the hundreds of acres for seed without being bushed. But it behooves the seed dealers to obtain their seed Limas from regular seed growers, and not from commission men.
CALIFORNIAN.

Plants Hardy in Michigan.

Editor Florists' Exchange:

I am now making a specialty of plants suitable for formal and subtropical work, and such as I find perfectly hardy in Michigan. All the euonymus stood the last two Winters with me. There is a constant call for dwarf box; it will not survive the Michigan Winters. Euonymus is a much better green; will stand cutting as close as box and also stands the Winter. Euonymus radicans is good as a climber or trailer; it can be used for numerous purposes. The golden privet is the finest thing I ever saw—a bright golden color. It does not burn in Summer. It kept its color into January last without any protection; then it had some litter thrown over it. I now find the foliage fresh and bright, although frozen solid. I cannot propagate it as I can the Japanese green privet, of which I use large numbers, either for hedges of six inches or hedges of six feet. What is called the California privet is not hardy with me. S. TAPLIN.
Detroit, Mich.

The Hail Season Commenced.

Secretary John G. Esler, of the Florists' Hail Association, who is just recovering from a quite severe illness, arising from a complication of internal troubles, the result of an attack of grip last Winter, informs us that the hail season has commenced, several small losses being reported from Texas. The hail is working its way North, and has already got as far as East St. Louis, Ill., where a storm recently occurred also.

Job and the Bagpipes.

Editor Florists' Exchange:

I notice that Job has "got 'em again." The mere reading about our "Ladies' Night" in the trade press has upset him to such an extent that he seems to be a little "batty;" mixes his metaphors, as it were. He speaks of "listening complacently under compulsion." The idea! Then he goes on to speak of "Highlanders on a hill far removed from the haunts of man." They could not be so very far removed from the haunts of man if the Highland man was there. Falconer could never make a blunder like that; he might promise a turkey dinner, and forget to produce it, but to be paradoxical, never! I guess that milk and seltzer drink has softened Job's brain; possibly Osterizing would cure him.

The fact that the hall was crowded on ladies' night gives evidence enough that the bagpipes were the drawing card. The ladies did not go to hear a paper read on "Stem Rot," instructive and interesting as it was to the grower; neither did they go to hear the routine business of the club transacted. Those things did not interest them in the least. They went to hear the pipes, and the expression of relief, pleasure and ecstasy depicted on their features when the pipes started proved that that was what they went for. Perhaps a very few did not enjoy the "soul-stirring strains," but they are more to be pitied than condemned. However, next ladies' night those few can adjourn to the ante-room and sing "God Save the Weasel" and "Pop goes the Queen," to a jewsharp accompaniment, to their heart's content.
That two Scots gave "signs of exaltation before

Gathered and Gleaned.

"I am but a gatherer and a disposer of other men's stuff."

The so-called green carnation was much in evidence everywhere throughout the country on St. Patrick's Day, and vendors of this deception have had ascribed to them, and even have arrogated to themselves, great occult power in the alleged production of the emerald-hued flower. Quite a deal of discussion on the subject has appeared in the daily newspapers of the country, of which the following is a fair sample: "When asked how the flowers were treated to give them their green tints Mr. ——— refused to answer the question, saying that the formula was a secret, but that they had been treated with chemicals, which had been placed in the water with which they had been irrigated." These words are reported to have been uttered by a florist. They are a credit to his cupidity, not to his ignorance, for he was well aware when he spoke them that he was talking nonsense. Catch-penny tricks, like dying carnations green, and attempting to surround the artificiality with mystery, reflect no credit on the "artist." The true lover of nature—the florist who loves his profession—will never seek to mar the pristine beauty of his blossoms by daubing them over with dyes for a cent or two more profit. The genuine and patriotic Irishman, too, being anything but artificial himself, hates artificiality, and a reaction against the "green" carnation must sooner or later set in. If they must have green things, give the sons of the Ould Sod and their descendants their favorite shamrock, what is considered the real thing, or as near to it as can possibly be obtained, typical of the occasion they celebrate. Falling shamrocks, there's plenty of natural leafage available. But —dye carnations. Out on them! As a florist said to me the other day: "The man in this business who dyes carnations green and sells them as the natural product is not a florist; he's a fakir, pure and simple, one devoid of good taste and with little regard for maintaining the dignity of the noble profession in which he is engaged."

The Rural New Yorker, in a recent issue, illustrates and describes a shower-bath attachment which has been erected in a greenhouse where steam is used by a Michigan man. The subject seems one worth while bringing to the attention of The Florists' Exchange readers. The structure is described as follows: "The room is of rough boards, made tight, and the ground being sand soaks away the water. There are no fixtures to keep clean, and anyone can use it. Each has his own brush and towels, and all keep clean, as it is such a pleasure to stand under the sprinkler and turn on any temperature of water just by turning the globe valves. The coil under dressing platform is to warm the room, and has an air valve in to make the steam circulate. The floor could be made of cement with a drain. The cost of this bath, lumber and fixtures was about \$12." Workmen in greenhouses would, I think, revel in the luxury of a bath of this kind.

That paper of John Birnie's, read before the New York Florists' Club the other night, is being commented on quite considerably in local circles. It is generally believed that Mr. Birnie put forward his remarks as a "feeler" to incite discussion; yet the wonder is expressed where he got his information from about the condition of the flowers "in the average commission store in the morning rush hour" that gave him the admitted jar. It is conceded that when a man speaks from his own experience or observation his words carry some weight; when he deals with generalities they have no weight at all. Therefore, it is thought Mr. Birnie should specify "the average commission stores," where he has found to exist such conditions as he described. Burke once said: "You cannot condemn a nation for the fault of one man," or words to that effect. Neither is it right, or just, to condemn a class of merchants for the defects or incapacity of one or two of its members.

Another matter exciting quite a good deal of interest among wholesale florists in New York is the statement made by one "Phil," in The Weekly Florists' Review, a Chicago trade paper, that "there are cases of wholesalers who have retail departments, notably in New York." It seems clear that "Phil" has made this statement at random; that he knows little or nothing of what he is talking about. And as he asserts that stores or departments of this kind maintained or supported by wholesalers "might antagonize the customers" of these wholesalers, he is, by this general assertion, placing all the New York commission florists in a rather unfavorable light with their customers. A suggestion that he name in his paper those metropolitan wholesalers who have retail departments seems to be to the point, and the only way by which he now can do justice to all the New York commission florists.
THE GATHERER.



HENRY ECKFORD
The Veteran English Sweet Pea Specialist

the music of the bagpipes ceased" is nothing remarkable. Holy Writ informs us that at the coronation of King Solomon they "piped with pipes and rejoiced with great joy." Ezekiel even hints that the pipes were invented in the Garden of Eden. It is evident that pipe music caused as much exaltation in the chosen people of old as it does in the Scotchman of the present day. It was, no doubt, to the music of the pipes that David danced when he danced before the Ark of the Covenant.

But the fact that was demonstrated most forcibly that evening was the superiority of Neil Gow's compositions, both in sweetness and volume (as played on the bagpipes) over the milk-and-seltzer, sleep-inducing strains of Wagner, Beethoven, Mendelssohn, Mozart, etc., as played on the piano. The pipes were so far ahead that there was no comparison. This goes to show that with Scotch songs, Scotch music, and a little "Scotch" on the side, a very enjoyable evening can be spent.

The Exchange suggests a larger hall for next ladies' night. If the committee sees fit to act on that suggestion I will provide two pipers, and we will be sure to draw twice as big a crowd as we had last.

I will close by informing Job that the bagpipes were there by request, from the proper authorities. Job's hint at "compulsion" is out of place. I also beg to inform him that the New York Florists' Club is in no need of his "sympathy" at the present time; it is paddling its own canoe in fine shape. I would just like to suggest to Job that he would make a good piper. His "make-up" is mostly wind, and Simeon Ford says wind is all that is required, no musical talent being necessary; therefore, Job would make an ideal piper. That he gets a job as piper at the home of the S. A. F. O. H., when they get it, is the hope of
JOHN BIRNIE.

OBITUARY

O. H. Sasse.

O. H. Sasse, a well known retired florist, of Milwaukee, Wis., was instantly killed by falling under a street railway car Friday, March 24. He was 40 years of age and lived with his mother and sister. He was well to do, and since retiring from the florist trade had been engaged in the real estate and contracting business.
C. C. P.

American Rose Society

Continuation of Report of Boston Meeting
and Exhibition

MARCH 23 TO 26, 1905

The sixth annual meeting of this society, which was partially reported in last week's issue, was one that will ever be remembered as the awakening of a new life, as it were, in this society. True, there were not many present at the meeting—some fifty or sixty—but a great deal of enthusiasm was shown, and ere another year has passed the American Rose Society will have placed itself on record as one worthy of the position it ought to hold, and will be doing a grand work for the advancement and popularization of the queen of flowers.

Following the president's address, W. J. Stewart read the report of the secretary, as follows:

SECRETARY'S REPORT.

I have the honor to make the following report as secretary since the resignation of Mr. Barron last Fall:

The number of members on the list when it came to my hands was 191, of whom 36 were life members, and 155 annual members. The majority of the latter had paid no assessments for two years or more. Bills were sent to all, and the returns have been quite satisfactory, everything considered, as the treasurer's report will show. In the meantime five new life members and sixteen annual have been added.

Silver medals won two years ago, at the Annandale Rose Show by Crumwold Gardens, and at Lenox, Mass., by Girard Foster, have been struck off and sent to their owners. Through an error in the schedule, a silver cup was awarded at Poughkeepsie the same year, instead of a medal, to F. Heeremans, of Lenox. Mr. P. R. Newbold, who was president of the American Rose Society at that time, has generously provided the cup, and it has been forwarded, suitably engraved, to Mr. Heeremans.

The sentiment all over the country toward this society is extremely cordial so far as I have been able to learn, and the outlook is most encouraging for the organization and the objects for which it stands.

TREASURER'S REPORT.

This report was followed by the reading of the report of Treasurer J. N. May, who was unable to be present. The summary of Mr. May's report was as follows:

RECEIPTS.

March, 1903, balance on hand.....	\$971.12
Annual dues	442.20
Life membership	250.00
Premium R. Scott & Son.....	50.00
Premium M. H. Walsh.....	25.00
Premium refunded by B. Dorrance.....	100.00
Interest on life membership.....	96.56
	\$1,934.88

PAYMENTS.

Premiums	\$782.00
Secretary's salary	100.00
Postage, cash and stationery.....	\$2.68
Medals and engraving.....	11.25
Life membership fund.....	250.00
Balance March 23, 1905.....	709.55
	\$1,934.88

Harry O. May, speaking for the treasurer, explained that his report covered a period of two years, on account of the former secretary failing to file any returns with the treasurer in time for the last annual meeting.

Both these reports were accepted and placed on file. Robert Simpson, of Clifton, N. J., proposed that a vote of thanks be extended those who had offered special prizes for the exhibition. This motion was unanimously carried.

An excellent paper on how the society might promote and encourage the successful cultivation of hardy roses by amateur growers was presented by M. H. Walsh, of Wood's Hole. Mr. Walsh spoke as follows:

To Create Interest in Hardy Garden Roses.

(Read by M. H. Walsh before the American Rose Society at Boston, March 24, 1905.)

It is cheering to note the awakening of a new and live interest which is being manifested by amateurs and others in the growing of hardy garden roses. The increased demand for these plants for the past five years is sufficient proof of this.

About twenty years ago the National Rose Society of England was organized, the aim and object of this society being to promote and encourage the culture of the rose, and to disseminate practical information for the proper growth and cultivation of this flower. It is through the untiring efforts and the influence of this organization that the rose is so generally grown by the amateur and the cottager as well as by the wealthy class.

The American Rose Society is organized on practically the same principle, its aim and object being to promote a greater interest in the growing of the rose, and to educate in its culture those who love the flower and desire to grow it.

The American Rose Society includes in its membership men, the greater part of whose lives have been devoted largely to the growing of roses, and who by their wide experience are well qualified to give the information so many people desire in relation to rose culture. The amateur rose growers especially are seeking and anxious to receive such directions.

There are several essentials in the growing of roses. The first is the soil; this would apply in a general way. A large number who buy roses know nothing about what soil is best suited for these plants. This I know from my experience with purchasers. While they are often familiar with the varieties, they admit they know nothing whatever about preparing the ground. Hundreds of these people would be willing to become members of the American Rose

Society could they receive some practical cultural directions concerning rose growing.

It is surprising how many buy roses and continue to buy and replace them simply through lack of knowledge how to properly care for them. They buy through love of the flower for its own sake. Many know not whether the roses should be planted on the north side or in a southern exposure. They are not familiar with and know practically nothing about pruning and properly guarding against insect pests. In fact, the large majority of those who buy roses year after year have but little practical knowledge relating to the proper care and the attention these plants require for successful growth.

It seems to the writer that the Rose Society should give practical cultural directions and instructions to those seeking such, and begin and educate the masses who are interested in roses. This could be done by publishing a practical treatise on the rose for the amateur, or it could be issued in the form of a bulletin to all members of the society. When this became known I believe the membership would rapidly increase and the bulletin, if found desirable, could give information applicable to all points of this country. There are members well qualified in the different sections of the country to give the practical cultural directions treating on soil, situation, pruning, selection of varieties of hybrid teas, hybrid perpetuals, Japanese and their hybrids, climbing roses, rambler roses and their various uses.

This matter wisely followed up would make the American Rose Society the recognized authority on all matters relating to the rose. At the present time the society may not be ready to take up this matter or approve of these suggestions, but I feel sure they will receive earnest consideration.

The American Carnation Society is prosperous and the grand results in the increasing popularity of this flower, the perfection of the blooms in color, size and texture are surprising and gratifying. The Chrysanthemum Society of America is prosperous and the wonderful advance in the development of this flower is marvelous. The peony has also a society and its members are formulating plans for the classification and correct naming of the varieties. These societies are to be congratulated for the zeal and severance and for the grand and noble work they have done in their respective spheres.

The Rose Society is waking to a realization of its duties, and the officers of the society have worked zealously the last year and are entitled to the thanks and hearty cooperation of all its members. Let us hope that the interest now being manifested will stimulate our rose growers to produce new and superior varieties of American origin and better adapted to our climate.

May the good work continue and the rose always hold the honor and title of Queen of Flowers and the Garden!

H. A. Siebrecht, of New Rochelle, in proposing a vote of thanks to Mr. Walsh, said that the members ought to bring the interests of the society before the public. He did not propose to offer any excuses for the society. It had lost some valuable members, like Asmus, and others; the secretary had been handicapped before the present time but he felt now there was new life in the society that had produced something to redeem what it had left undone and would carry out the ideas expressed by the president and by Mr. Walsh. He proposed that the society issue a bulletin in some form, such as is done by the Rose Society of Great Britain. It was moved that the president appoint a publishing committee for the purpose of publishing reports and distributing general information on the rose.

Jas. Wheeler said that people had been slow in taking hold of the rose, but that everybody wanted a rose, whether it was inside in Winter or in the garden in Summer.

Robert Simpson indorsed the sentiments of Mr. Walsh, and said that it was the duty of the society to tell people how to buy and how to succeed in growing roses.

A. Farenwald said that more spirit was needed among the rose men; that they ought to follow the plan of the Carnation Society and the carnation men, and appear at every exhibition, as the carnationists did. He spoke of the fine exhibition the carnation men had put up in the hall below right in the midst of the rose men; that exhibition was much finer than the one at Philadelphia, and that it was only through



NEW ROSE URANIA.

Grown and Exhibited by M. H. Walsh at Boston Show.

Copyright M. H. Walsh, 1905.

push that they would succeed and make the society what it ought to be.

Frank Moore asked for a list of hardy roses for an extremely exposed situation, in six varieties.

In replying to Mr. Moore's question, Mr. Walsh explained at some length that so much depended on the situation that living and growing were different things. That the soil is the most essential. Conditions must be favorable for the roses to ripen their wood, or they would not withstand the severity of a New England Winter. Another thing to look out for was insect pests. He said it was not the wealthy people that needed instructions; they had their gardeners to look out for such things; but it was the amateur that the society should try and help. In naming six varieties of roses offhand, Mr. Walsh gave the following: hybrid perpetuals, Baroness Rothschild, Clio, Ulrich Brunner, Prince Camille de Rohan, Baron de Bonstetten and Captain Hayward. For hybrid teas he named Captain Christy, Mme. Caroline Testout, Kaiserin Augusta Victoria, La France, Maman Cochet, Mme. Abel Chatenay. He said that the latter variety had proved as hardy as any hybrid perpetual with him for the last two years. For Ramblers he named Lady Gay, Debutante, Sweetheart, Farquhar and Philadelphia Rambler. He also said that the Manda set of Ramblers were hardy and very fine. He spoke against the cheap Holland-grown roses, which he said were grown in marsh lands, consequently would not stand the strong sun of our climate, and did not grow, or last any length of time, and were dear at any price.

Mr. Wheeler said that with him Clio and Baroness Rothschild had never grown or proved satisfactory, and he was surprised that Mr. Walsh had left out General Jacqueminot and Magna Charta.

Mr. Siebrecht said he was surprised that Mr. Walsh had included Baroness Rothschild; that although it was a grand rose, it did not do well, but Clio did finely in the neighborhood of New York. He would include John Hopper, Anne de Diesbach and Paul Neyron. Magna Charta, he said, he did not like except to plant in landscape work among shrubbery. He urged that the society should try to stop the wholesale bringing into the country of a cheap stock of roses. He said that the growers raised them for about \$25 per 1,000, and that they cost here about 5c, apiece; that the department stores were the great disseminators of these roses. The stock was not adapted to this country, and it should be the duty of the Rose Society to try and stop the importation by endeavoring to have a heavier duty placed on them, thus tending to keep them out. It would be a good idea for the president to appoint a legislative committee to look into the matter.

W. N. Craig said Mr. Walsh had left out some of the best roses, and that his selection would be Mrs. John Laing, which had withstood 30 degrees below zero at North Easton, Mass.; Mme. Gabriel Luizet, John Hopper, General Jacqueminot, Ulrich Brunner, and Paul Neyron; and to the list of ramblers he would add Dorothy Perkins.

W. J. Stewart spoke for Carmine Pillar, which he said was one of the best climbing roses in existence.

Harry O. May stated that the main thing for the society was how to make it exist, and that the commercial man must get interested in it, for without his support they could not get on.

Mrs. Mary Jones said she was glad there seemed to be an awakening among the members, for she had been a member for several years, and had begun to think she had better withdraw, as she had received



VASE OF ROSE LIBERTY

Winner of First Prize for 50 Blooms Any Variety at
American Rose Society's Show
Exhibitor, A. Farenwald, Roslyn, Pa.

no benefit from belonging to the Society. Now, with the new interest that seemed to exist among the members, she hoped that something would be accomplished.

To Publish Rose Information.

Benjamin Hammond said that if Mr. Walsh would write a treatise on the cultivation of the rose, to be published in bulletin form by the society, he would pay for the publication of 10,000 copies.
A vote of thanks was given to Mr. Hammond for his generous offer.
A. Langjahr moved that the society publish an annual report, and on the motion of Mr. Elliott, reports, bulletins, etc., were ordered to be placed in the hands of the publication committee.

Place of Meeting.

The next business before the meeting was the selection of a place of meeting, and although Chicago, Utica and Syracuse were mentioned, it was decided that Boston would be the best place for the meeting of 1906.

The Next Year's Schedule.

On the motion of Mr. Walsh, it was decided that the schedule for the exhibition be issued November 1 and mailed to the members not later than November 5.

Election of Officers.

The election of officers then took place, the result being as told in last week's issue, viz.: President, Alex. Montgomery; vice-president, Robert Simpson; treasurer, Harry O. May; secretary, Wm. J. Stewart. Executive committee, for two years, M. H. Walsh; and A. Farenwald; to fill the unexpired term of Robert Simpson, W. N. Craig.
Mr. Montgomery thanked the members for the support they had given him and for the honor they had again conferred upon him, and said that he would do his best to further the interests of the society; and that although they had a fine exhibition and a splendid meeting this year, he could foresee that by another year they would have something far superior. (And so say all of us.)
There being no further business, the meeting then adjourned.

Among those present from a distance were: F. R. Newbold, Poughkeepsie; Peter Crowe, Utica; S. S. Pennock, A. B. Cartledge, Philadelphia; A. Farenwald, Roslyn, Pa.; A. H. Langjahr, A. J. Guttman, W. Marshall, J. B. Nugent, Jr., W. F. Sheridan, F. H. Traendly, C. B. Weathered, New York; H. A. Siehrecht, New Rochelle; Benjamin Hammond, Fishkill, N. Y.; Robert Simpson, Clifton, N. J.; H. O. May, Summit, N. J.; Frank Moore, Chatham, N. J.; Paul Dailedouze, Flatbush, N. Y.; J. F. Huss, C. U. Fohn, Alex. Cumming and Theodore Wirth, Hartford, Conn.; F. R. Pierson, Jas. T. Scott, Tarrytown; J. F. Struck, Summit, N. J.; Thos. Knight, Rutherford, N. J.; and Fred Breitmeyer, Detroit.

The Banquet.

The banquet tendered by the horticultural interests of Boston to the visiting members of the American Rose Society, which was held at the Thorndike Hotel, on Friday evening, March 24, was an affair long to be remembered. It was by all means a fine example of what can be done to entertain and make pleasant the few hours that visitors are among us. About 100 ladies and gentlemen were present. The decorations were very fine indeed, many hundreds of choice American Beauty and other roses being used, showing the excellent skill of the committee in charge.
President Wheeler, of the Florists' Club, in a few well-chosen remarks, introduced as toastmaster W. J. Stewart. Mr. Stewart, in accepting, thanked Mr. Wheeler for the honor he had done him, and said that the American Rose Society had made no mis-



CINERARIA STELLATA
Exhibited by William Thatcher, At Boston Show

take in re-electing a Boston man to its highest honor. He called upon Mr. Montgomery for a few remarks. Mr. Montgomery spoke of the good work that could be accomplished, and said that he would do his best to further the welfare of the society.
Mr. Traendly was called upon, and spoke for the New York Florists' Club.
Mr. Farenwald spoke for Philadelphia. He complimented the Boston men on the exhibition, not only for its fine roses, but for its fine cyclamen and cinerarias, which were as good as any he had ever seen. Mr. Fisher spoke for the carnation men, and Mr. Farquhar responded for the Massachusetts Horticultural Society. Mr. Dawson spoke for the native roses, and Professor Elson, of the Conservatory of Music, gave a very interesting talk on flower lore. Other speakers were Messrs. Nugent, Crowe, Parker, Walsh, Hammond, Siebrecht and Wirth.
During the evening the toastmaster presented the Lord & Burnham trophy and the Crowe gold medal to the winner of these prizes, Mr. Montgomery; and the A. H. Hews cup to the winner of it, W. W. Edgar, of Waverly, Mass.

The Exhibition.

The exhibition, of which a brief report was given last week, was a drawing card at Horticultural Hall. Never before in the history of the hall, in its present location, was the attendance so large, and never before has that hall held such a fine display of roses. As called for by the schedule, most of the vases were renewed on Saturday, so that up to the closing of the exhibition, on Sunday night, the flowers were in very good shape. Especially worthy of mention was the vase of Liberty, from A. Farenwald, Roslyn, Pa. Boston rosarians have never before seen such fine stems or such high-class flowers as those were. Another new rose, which did not arrive in time for the opening of the exhibition, was Richmond, from the E. G. Hill Company, of Richmond, Ind. Other noticeable new roses were La Detroit, General MacArthur and Wellesley. The full list of premiums follows:

The Awards.

TEAS AND HYBRID TEAS.
Twenty-five cut blooms (open to all).
American Beauty: Second prize, W. H. Elliott, Bride;

First, W. H. Elliott, Bridesmaid: First, W. H. Elliott; second, Montrose Greenhouses. Mme. Hoste: First, John Breitmeyer's Sons. Souvenir du President Carnot: First, R. T. McGorum; second, J. McFarland, Golden Gate; First, Floral Exchange; second, Robert Simpson. Bon Silene: First, John Breitmeyer's Sons. Mrs. Oliver Ames: First, W. H. Elliott. Ivory: First, Floral Exchange, Edgely, Pa. Safrano: First, W. H. Elliott. Liberty: First, W. H. Elliott; second, Waban Rose Conservatories. Any other named dissiminated variety: First prize "A," Mr. Fitzpatrick, Killarney; first prize "B," Robert Simpson, Uncle John; first prize "C," John Breitmeyer's Sons, La Detroit. Queen of Edgely: First, Floral Exchange, Edgely, Pa.

TWELVE CUT BLOOMS.

Open to growers having not more than 40,000 feet of glass in roses.
American Beauty: First, Briarcliff Greenhouses. Bride: First, Montrose Greenhouses; second, R. T. McGorum. Bridesmaid: First, Montrose Greenhouses; second, Robt. Montgomery. Souvenir du President Carnot: First, Robt. T. McGorum; second, J. McFarland. Mrs. Oliver Ames: Second, Robt. Montgomery.

HYBRID PERPETUALS.

Twelve cut blooms.
Ulrich Brunner: First, J. McFarland. Mrs. John Laing: First, J. McFarland.

SPECIAL PRIZES FOR CUT BLOOMS.

Special prize presented by Benjamin Dorrance for display of cut blooms of roses, not less than five varieties and not less than twenty-five blooms of any one variety, to be competed for by growers outside of a radius of 150 miles of Boston—Brant Bros., Utica, N. Y., a silver cup.
Special prize offered by John B. Nugent, Jr. for twenty-five blooms of any red rose, not disseminated previous to 1903—first, John N. May with General MacArthur.
Special prize offered by John B. Nugent, Jr.—Twenty-five blooms of any pink rose, not disseminated previous to 1903—first, John Breitmeyer's Sons with La Detroit.
Special prize offered by President Alexander Montgomery.—Twenty-five blooms of any American seedling rose introduced in or since 1901—John Breitmeyer's Sons with La Detroit.
Special prize offered by Siebrecht & Sons.—Fifty blooms of Killarney, grown within 250 miles of Boston—Mr. Fitzpatrick, New Rochelle, N. Y.
Special prize offered by Treasurer John N. May.—Display of blooms not less than ten varieties, in a space of 50 square feet—Col. Chas. Pfaff.
Executive committee's prizes.—Fifty blooms of American Beauty roses: First, Waban Rose Conservatories; second, Briarcliff Greenhouses. Fifty blooms of any other variety: First, A. Farenwald with Liberty; second, W. H. Elliott, same. Six blooms of any variety introduced in 1901 or subsequently: First, John N. May with General MacArthur. Twenty-five blooms of any roses of American origin, not yet in commerce, either tea or hybrid tea, seedling or sport—Waban Rose Conservatories with rose Wellesley, silver cup.

POT PLANTS (OPEN TO ALL).

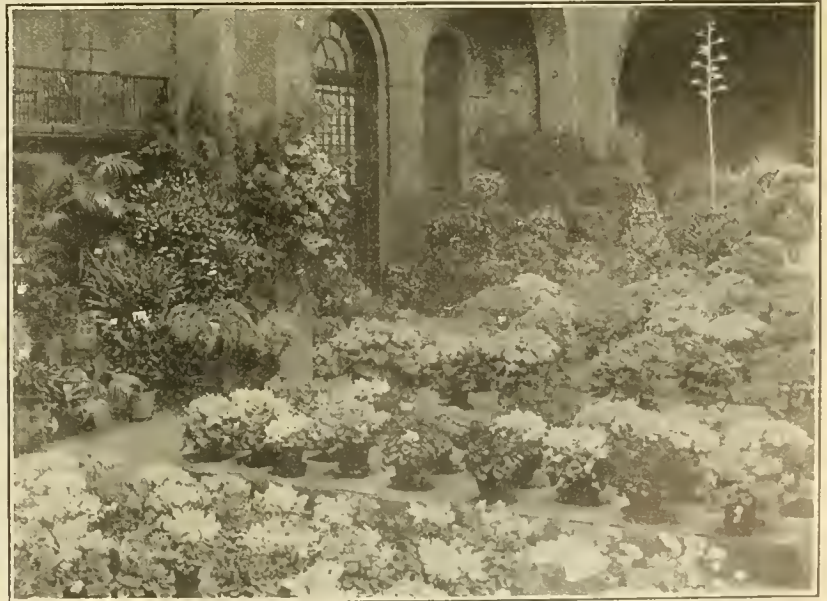
Twenty-five hybrid perpetual roses in pots, not less than ten varieties: Miss S. B. Fay (M. H. Walsh, gardener), a silver cup presented by Col. Chas. Pfaff.
Twelve hybrid perpetual roses in pots, not less than five varieties—W. W. Edgar (offered by M. H. Walsh).
Six plants, any one variety, in not larger than 8-inch pots; F. R. Pierson Co., with Baby Rambler.
Specimen plant, in pot: First, W. W. Edgar with Mme. Eug. Verdier; second, M. H. Walsh with Urania.

CLIMBING ROSES IN POTS.

Specimen plant, trained or not, in pot or tub, not less than 12-inch: First, M. H. Walsh with Lady Gay.
Display of Rambler and Climbing roses in pots, covering not less than 50 square feet—M. H. Walsh (offered by F. R. Newbold).
Special Peter Crowe prize, for best vase of Bride and Bridesmaid—Waban Rose Conservatories, a gold medal.
Special Pierson & Sefton silver cup, for vase of fifty assorted roses, not less than three varieties—the Waban Rose Conservatories.
Special cup offered by A. H. Hews Co., for best rose plant, not a climber—W. W. Edgar.
Special prize offered by Welch Bros., for best vase of roses in the hall—Waban Rose Conservatories.
Special Lord & Burnham trophy—Waban Rose Conservatories, first prize awarded in conjunction with the first (cash) prize for fifty American Beauty roses.
The judges were: Peter Crowe, Utica, N. Y.; Walter F. Sheridan, New York; J. F. Huss, Hartford, Conn.
J. W. DUNCAN.



EXHIBIT OF R. & J. FARQUEAR & CO., AT BOSTON SHOW



MAIN HALL, BOSTON FLOWER SHOW

CLUB AND SOCIETY DOINGS

DOBBS FERRY (N. Y.) HORTICULTURAL ASSOCIATION.—The regular meeting was held in Odd Fellows' Hall Saturday evening, March 25, President Dunbar in the chair. A prize was given for the best six carnations, one variety, Claud Wilson winning it. Messrs. Kassberg, Lee, Kneifel and Boreham also staged some very fine blooms. Joseph Dunbar showed a striped sport from Mrs. Lawson. Thomas Lee also had a sport from that variety—a mauve pink, which was very much admired. It was highly commended. Mr. Boreham staged some very fine stocks. The business of the meeting was the making of the schedule for the Fall show. Last year's premium list was adopted, with some few changes. C. Wilson was elected manager and J. Dunbar treasurer. Mr. Walsh was elected to active membership. There is to be an essay and discussion on vegetables at the next meeting.

CHICAGO FLORISTS' CLUB.—A good exhibit of Easter Plants was before the club on Thursday, March 23, a large number of members attending, notwithstanding the inclement weather. Among those exhibiting were John E. Haines, Bethlehem, Pa., who had a vase of his namesake carnation; J. W. Dudley & Son, Parkersburg, West Va.; Vaughan's Greenhouses, Western Springs, roses, ferns, azaleas, dracenas and other plants suitable for Easter; John Breitmeys's Sons, Detroit, Mich., sent a fine vase of La Detroit rose with 4-foot stems and magnificent buds; also three vases of antirrhinum, pink, white and yellow, which was much admired; Garfield Park Floral Company, Chicago, a fine collection of Easter plants, consisting of candidum and Harrisii lilies, Rambler roses, hybrid perpetual roses, azaleas, ferns, and other decorative stock. H. N. Bruns had a fine collection of lily of the valley in pots and pans. Weiland & Risch, Chicago, two vases of Bride and two of Bridesmaid roses. E. F. Winterson Company, a collection of Boston ferns and florists' supplies for retail stores for that occasion. A vase of fifty carnation Lady Margaret was exhibited by Mt. Greenwood Cemetery Association, Mt. Greenwood, Ill.

The judges reported as follows on the above exhibits: A certificate of merit be awarded carnation Lady Margaret, it scoring 90 points; carnation John E. Haines, 80 points, the flowers having suffered considerably in transit. Special mention was made of all the other exhibits.

The committee reported that arrangements were making for a banquet for some Saturday evening in the near future, probably April 15.

Philadelphia Spring Show.

The Spring exhibition of the Pennsylvania Horticultural Society took place this week, and was a great success. The quality of the exhibits was very high, surpassing that seen in previous years; in fact, it is doubtful if the judges ever had a more difficult task to perform. In the hyacinth, tulip and narcissus classes the competition was very strong, and considerable time was taken up in selecting the winners. In the centre of the main hall was arranged a very choice group of plants from the public collection at Horticultural Hall, Fairmount Park. In this exhibit were rare varieties of acacias, cycads, marantas and dieffenbachias, the edge of the group con-



GENERAL VIEW OF PHILADELPHIA SPRING SHOW, 1905

sisting of spiraeas, marguerites and aspidistras. In this group every plant was labeled and was therefore of great educational value.

Cineraria stellata was, as usual, represented by some grand specimens; these plants have been specialties at the shows here for the past four years, and there has, in consequence been much demand for them at the retail florists' stores.

The new dwarf *Crimson Rambler* and the new rose *Killarney* were much admired at this show. The demand for these commercially is increasing very fast. Hyacinths were the best ever seen here. Among the prize winners the following varieties were prominent: King of the Bues, L'Innocence, Czar Peter, Koh-i-noor, La Grandesse, and Potgetter.

Narcissus Bicolor Victoria is new, and a good acquisition, the shield being of a straw color, and the cup a bright canary. The tulips were a grand lot; the following varieties were most noticeable: *Torador*, *Tournesol*, *Joost Van Vondel*, *Vermillion Brilliant*, *Kiezerskroon* and *Colour Cardinal*.

There was a large exhibit of geraniums in 8 and 10-inch pots. The best plants were of the following varieties: *Mad. Chas. Moten*, *Marquise de Castellane*, *Cyclops*, *Alphonse Riccard*, *Mary Beaton*, and *Gertrude Pearson*. *Primula obconica grandiflora* were very largely exhibited, the dark pink varieties being most prominent.

In ferns, for which the shows here have become noted, there were some grand specimens of *Gleichenia flabellata* and *Davallia Mooreana*. *Dracena Godsefiana* was represented by a plant in a 12-inch pot, and was 30 inches high. *Lilium Harrisii* were very good; one specimen plant in 7-inch pot had 11 flowers, while many had from 6 to 8 flowers.

Of the newer plants there were exhibits of *Asparagus myriocladus* and *plumosus compactus*; *Selaginella Watsoniana* and a good collection of hybrid amaryllis in bright colors.

Hydrangea Otaska was well represented by some 14 well-grown plants. The new carnation John E. Haines, exhibited by John E. Haines, Bethlehem, Pa., was awarded a certificate of merit. A certificate of merit was also awarded to John Kuhn, of this city, for his new pink carnation No. 13. Special mention was made of carnation *Crisis*, exhibited by John L. Dillon, Bloomsburg, Pa. DAVID RUST.

Boston Spring Show.

(Continuation of Report.)

The annual Spring show of the Massachusetts Horticultural Society, of which a partial report was given last week, proved in every way one of the best ever held by the society. Financially it was a success, for never before has there been so many visitors at the present hall. In the plant classes the cyclamen from George F. Fabyan (James Stuart, gardener) were exceptionally fine, many of the visitors from a distance remarking on the high standard of their cultivation. *Cinerarias*, also from the same grower, were excellent plants, and the stellata varieties from Mrs. J. L. Gardner (Wm. Thatcher, gardener), were very fine, indeed, and were an attractive feature of the main hall.

In the display of Easter plants a very fine group was put up by Mr. E. A. Clark (Wm. Riggs, gar-

dener), but it was closely followed by the collection of Edward McMulkin. The plants of acacias and other hard wooded stock commanded considerable attention. The display of bulbous plants was very good, and filled the main portion of the side hall. The Rambler roses of M. H. Walsh were the leading feature of the show, and were much admired; exceedingly fine were the plants of *Lady Gay*, *Sweetheart* and *Debutante*, photographs of which appeared in last week's issue. Another exceedingly fine group of roses from M. H. Walsh was the variety *Urania*, a seedling from American Beauty and *Suzanne de Rodocanachi*. This is unquestionably a grand variety, of a distinct bright crimson color, fine habit of growth and good foliage. Among the pot plants, also from Mr. Walsh, were noticed *Frau Karl Druschki*, the best white garden rose in cultivation, and that lovely pink variety, Mrs. R. G. Sharman-Crawford.

In cut roses, some very fine blooms were exhibited. The Mrs. Anna C. Ames prizes for the best vase of fifty blooms were won by W. H. Elliott and the Waban Rose Conservatories in the order named. The special prizes offered by the Gardeners and Florists' Club for vase of mixed roses, 25 blooms in 4 varieties, were won by Colonel Chas. Pfaff (Geo. Melvin, gardener) and W. H. Elliott.



HYACINTHES AT PHILADELPHIA SPRING SHOW, 1905



PRIMULA OBCONICA GRANDIFLORA AT PHILADELPHIA SPRING SHOW, 1905

In the hybrid perpetual class Colonel Pfaff was first, E. A. Clark second and Miss S. B. Fay third. For Ulrich Brunner, John McFarland was the only exhibitor. For American Beauty, Arthur Griffin was first, W. H. Elliott second. For 25 Bride W. H. Elliott was the only exhibitor; he was the only exhibitor in the class for Bridesmaid, for Liberty and in the class for any other variety.

In the class of 100 blooms, carnations, F. R. Pierson Company, Tarrytown, N. Y., took first; Patten & Co., Tewksbury, Mass., second, and Peter Fisher, Ellis, Mass., third. For 25 blooms fancy crimson variety Peter Fisher was first with Ruby, Wm. Nicholson second with Harry Fenn, and Patten & Co. third with same variety. For 25 blooms of any dark pink, Peter Fisher was first with Nelson Fisher; Patten & Co., second with Nelson Fisher, and Wm. Nicholson third with Mrs. Thos. W. Lawson. Enchantress was the only light pink variety entered, and the prizes were won by Wm. Nicholson, Peter Fisher and Patten & Co. in the order named. For 25 blooms of any scarlet variety, Guttman & Weber, New York, were first with Victory; Peter Fisher, second with Flamingo, and F. R. Pierson Co., third with same variety. For 25 blooms of white, Peter Fisher was first with Lady Bountiful; Patten & Co., second with the same variety, and Peter Fisher, third with Princess. For 25 blooms of any yellow, Backer & Co. won with Eldorado; Patten & Co. being second, and Backer & Co. third with the same variety. For 25 blooms of variegated, Mrs. M. A. Patten was the only variety exhibited, and Patten & Co. took first; H. A. Stevens Company, second; Peter Fisher third.

Gratuities were awarded to Edward McMulin for palms and bays; Lager & Hurrell, Summit, N. J., for display of orchids; Julius Roehrs Co., Rutherford, N. J., for display of orchids; Geo. McWilliam, for sprays of Cymbidium eburneum Lowianum; to Bussey Institution, for display of forced shrubs; E. W. Converse for display of cyclamen, etc.; Harvard Botanical Gardens, for display of primulas and palms; R. & J. Farquhar & Co., for display of Spring flowering plants; Carl Jurgens, for an exceedingly fine vase of lily of the valley; to M. H. Walsh for rose Urania; L. E. Small, Tewksbury, Mass., for seedling carnation No. 3; Guttman & Weber, for carnation Victory; Wm. Sim, for sweet peas; Patten & Co., for mignonette; the Misses Eldridge, for Bougainvillea spectabilis, and to Edward McMulin, for yellow Marguerites. E. O. Orpet was awarded a silver medal for seedling Cattleya (C. x Olivia C. intermedia x C. Trianae). First-class certificates were awarded to Henry Barrows & Son for Nephrolepis Barrowsi; F. R. Pierson Co., for Baby Rambler rose; M. F. Plant, for Phalenopsis amabilis Rimestadiana; and to Julius Roehrs Co., for Cymbidium Lowianum.

Honorable mention was awarded, to L. H. Foster Estate for Nephrolepis Dorchester; the Misses Eldridge for Bougainvillea spectabilis; Lager & Hurrell, for Cyrtopodium glaucophyllum; Bayard Thayer, for Phlox divaricata; Chicago Carnation Company, for carnation Cardinal; John E. Haines, Bethlehem, Pa., for new carnation John E. Haines; John Murchie, Sharon, Pa., for carnation Fred Burki; W. J. & M. S. Vesey, Fort Wayne, Ind., for carnation Glendale; Wm. Sim, for new sweet pea Earliest Sunbeam; M. H. Walsh, for new seedling rose, double; and Julius Roehrs Company for Ficus Cannonii.

J. W. DUNCAN.

Single Chrysanthemums.

In our eagerness at the present day to secure monstrosities in flowers, are we not apt to overlook the fact that the flower of more modest proportions and



BENCH OF NEW ROSE URANIA AS GROWN BY M. H. WALSH, WOOD'S HOLE, MASS.

Copyright, M. H. Walsh, 1905.

less striking appearance possesses in no less degree a beauty and charm which appeals to the refined taste perhaps more strongly than do the large show blooms which are annually exhibited in such perfection and profusion? If one were to form a conclusion as to the popularity of the single chrysanthemum by its appearance at our yearly exhibits, it would surely be that the modest form of the Autumn queen has but few ardent advocates; but its popularity depends not so much on exhibitors as on public taste, and it is for the florist who has to deal with the latter to bring its merits to the front. It is pleasing, however, to note that it is slowly, but surely, coming into public favor. Especially is this so in England, and in that climate where very often dampness reigns supreme during their flowering season, it is the large blooms which suffer most from that dread plague, "damping-off," while the singles come through without much fear of being affected. This in itself is no mean item, and when the lasting propensities of these graceful little blossoms are taken into account, it means much to those whose supply of cut bloom must be limited after the general rush of chrysanthemums is over.

There are, moreover, quite a few varieties which will be flowering as late as January if kept quite cool. The following are a few of the sorts which are good for late work, viz., Mrs. Baillie, Winifred Hull, Mrs. Brown Potter, Sir R. Buller, America, Lintan, Christmas Cheer, Mrs. Johnplatt and Chibran's 20th Century.

The early and intermediate varieties are very numerous and reference to a chrysanthemum specialist's catalogue will give one ample scope to choose from. The firm of W. Wells, England, has doubtless been instrumental to a large extent in bringing out the merits of the single chrysanthemum and gaining for it the position of favor it now holds. Their large list of varieties on show every year bring forth much praise and comment from all flower lovers.

The cultural requirements of the single is not near so complicated as those for the large chrysanthemum blooms, in that there is no need to worry about pinching and stopping at a certain date to secure the right bud at the right time; neither is it necessary to do but little, if any, disbudding, for they are most effective when left to develop all the flower buds which appear, the result being a spray of simple beauty. This month (March) is time enough to strike the cuttings, and all they need (speaking generally) is a good soil to grow in; pinch them when six inches high, and again when the three or four shoots (the results of the first pinching) have made a lead of five or six inches; then let them run to terminal buds, as these give by far the best color, and, what is most desirable, a more perfect single flower with only the one, or, at the most, two, rows of ray florets.

EDWIN MATTHEWS.

Lychnis Flos-cuculi Alba Plena.

Editor Florists' Exchange.

There has been considerable mention made of the beautiful double pink cuckoo flower, but never have I seen any mention of its equally beautiful companion, the double white form. This is identical in every way with the pink, with this single exception, that it is not such a continual bloomer, although when in flower it is more prolific. It is a fine, ready forcer, throwing flowers of the purest white; perfectly hardy in New England, but unless protected, the alternate freezing and thawing of some Winters is apt to kill it. Everybody that is acquainted with the pink should have its companion, the double white.

Norwood, Mass. FREDERIC J. REA.

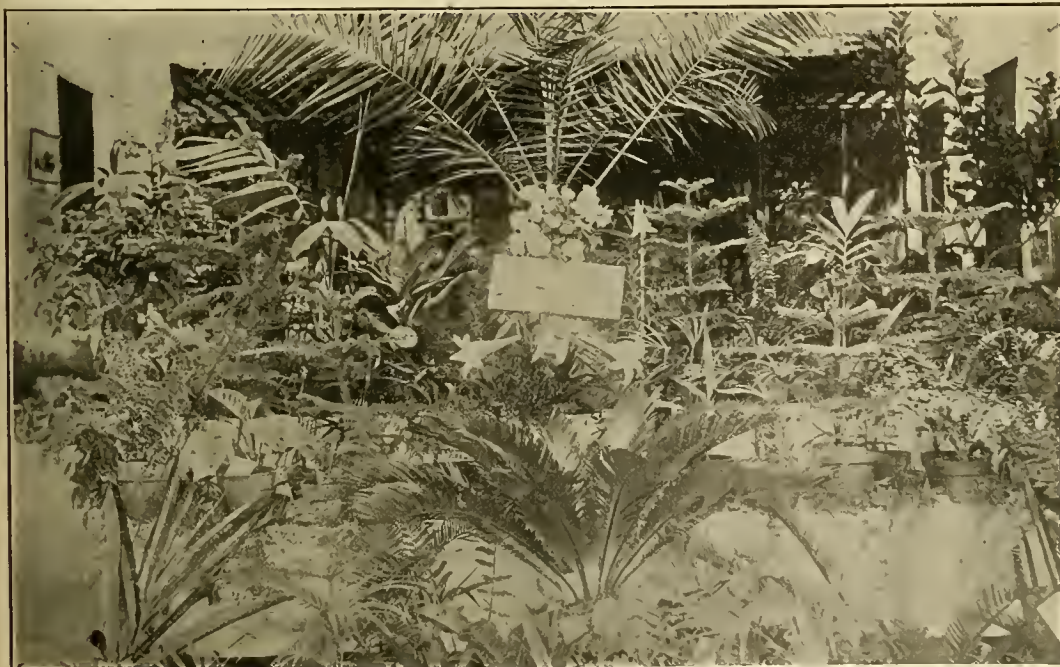
WINDOW GLASS.—It is understood, says the Metal Worker, that window glass has been recently offered at prices which indicate a weakening tendency in the former quotations of manufacturers. Reports are to the effect that hand-blown glass has been offered by manufacturers to jobbers, in carload lots, at about 90 and 10 and 5 and 2½ per cent. discount on the first three brackets single, and at 90 and 10 and 2½ per cent. discount on all larger sizes of single and double strength. New York quotations are as follows: First two brackets, single, 90 to 90 and 15 per cent. discount; larger sizes, both single and double strength, 90 to 90 and 10 per cent. discount.

John Birnie Sends Congratulations.

Editor Florists' Exchange.

Congratulations are in order. Your Spring Number is all right. A business paper from cover to cover; no room for either ornament or foolishness. It indicates that the grower is the "leading man in the business," notwithstanding Job's assertion, when he launched that presidential boom. Is Job a commission dealer? Several would like to know besides.

JOHN BIRNIE.



PARTIAL VIEW OF EXHIBIT OF SOAR BROS., LITTLE RIVER, FLA. At Dade County Fair, Miami, Fla., March 11, 1905

The Retail Trade

A NEW RESERVOIR VASE.—A new reservoir vase has been invented and patented by J. K. Andrews, of Elgin, Ill., who is now placing the device on the market. He describes it as under: "It is a reservoir vase having an internal reservoir. The earth covers it entirely, coming down to the bottom of the bowl. The water is filled in through the tube, after which the tube is corked air tight. The water passes out under the edges of the reservoir, and comes in contact with the earth in the outer part of the bowl first, moistening that and working toward the center by capillary attraction. As the water is drawn from the reservoir a vacuum is created which draws the air down through the soil around the roots of the plants, furnishing not only fresh air to the roots of the plants, but keeping the soil more loose and fresh, and promoting a stronger, healthier growth of plants than can be obtained from anything I have ever before seen. I have used this vase several years and know well its possibilities. The reservoir is large enough to hold about 20 quarts of water, and the supply will last from ten days to two weeks, as there is no way for the water to escape by evaporation, only by coming up through the soil. The vase is patented in the United States and Canada."

The Greenhouse White Fly--*Aleyrodes vaporariorum* Westw.

By A. W. Morrill,

Special Field Agent United States Department of Agriculture.

The damage by the greenhouse white fly to tomato, cucumber, and many other plants growing under glass easily places it in the front rank of greenhouse pests. In many cases it would be impossible to grow certain crops in forcing houses without the aid of remedial measures. A specific instance is on record where, in a western Massachusetts town, the attacks of this insect resulted in the total loss of a greenhouse crop of tomatoes and cucumbers valued at \$4,000.

During the past few years many appeals for remedies have been made to the editors of our horticultural journals, to many State experiment stations, and to the United States Department of Agriculture; yet, although it is not, in reality, a difficult insect to control, the remedial methods which should be followed are far from being generally known among the many greenhouse men who suffer from its depredations.

Food Plants.

The insect under consideration is notable for its very general feeding habits, having already been recorded as breeding on over 60 different kinds of plants. Of these the following are of the most economic importance: Aster, chrysanthemum, salvia, lantana, fuchsia, coleus, ageratum, primula, geranium, heliotrope, rose, eggplant, bean, melon, lettuce, cucumber, and tomato. The two last named suffer the most serious injury from this insect, perhaps more than the other greenhouse plants together, although not infrequently there are reported serious losses in greenhouses devoted to one or more of the other plants mentioned.

Appearance of Infested Plants.

The upper leaves of a plant are preferred by the adult females for the deposition of their eggs. Thus there is a slow but continuous migration of adults upward to keep pace with the unfolding of the leaf buds. On thoroughly infested plants we find on the uppermost leaves only adults and freshly laid eggs; a little lower on the plants we find eggs in the process of hatching; and, finally, on the lowermost parts of the plants we find discolored, shriveled leaves with many pupae and emerging adults and few, if any, unhatched eggs or young larvae. The larvae and pupae secrete little globules of honeydew, so named after the material of a like nature secreted by plant lice. These globules usually either drop or are forcibly ejected, and, falling on the upper surface of leaves directly below, give them a glazed appearance. This is frequently followed by the growth of a sooty fungus which hastens in a complete destruction of the leaf.

When overcropping of the young occurs, this fungous growth finds favorable conditions for its development on the under surface of the leaf, resulting in the destruction of many of the immature insects. Owing to the interference with the respiratory processes of the leaf, both by the bodies of the insects themselves and by the fungous growths due to them, badly infested plants have a tendency to wilt when exposed to the sun's rays. In seriously infested greenhouses the leaves of the plants gradually die, the lower leaves first, and if unchecked the insects greatly impair the value and vitality of the plants, even though they do not actually cause their total destruction.

Preventives.

The importance of preventive measures in combating the white fly in greenhouses is not due to the inefficiency of properly applied remedies, but to the fact that in many cases the tiny predator is unobserved until considerable injury has been accomplished. With little trouble and expense one may, in a large measure, preclude the possibility of this and other pests appearing in the Winter in greenhouses which are unused during the Summer months. The introduction of the insect into non-infested floral establishments may be prevented by avoiding the introduction of infested plants unless first subjecting them to a fumigation in a tight fumigating box, based on the directions hereafter given for entire greenhouses. Vegetable houses, which are not used during the Summer months, allow of a practice which not only greatly reduces the chances of the white fly appearing in the house during the growing season, but may result in the house being successfully kept free from thrips and other insect pests during the whole or a considerable part of the season. The practice referred to consists in removing from the house all vegetation, even the smallest weeds, and fumigating the tightly closed greenhouse with hydrocyanic acid gas at the rate of five or more ounces per thousand cubic feet of space for a ten hours' exposure.

Remedies.

Fumigation with Hydrocyanic-Acid Gas.—This has been found to be the most successful means of controlling the white fly in greenhouses. Its success in this case is due to the susceptibility of the adults and larvae of these insects to a comparatively long exposure to a small amount

of the gas. Many experiments have been conducted with a view to determining the usefulness of this gas against the greenhouse white fly, the amount of gas to be generated, and the length of exposure necessary to produce the best results. Experiments of this kind thus far have been with tomato and cucumber plants, but as these plants are among those most liable to injury from improper fumigation with hydrocyanic acid gas, a wide range of usefulness is indicated by the success thus far obtained.

Amount of Potassium Cyanide to Use, and Length of Exposure.—Experiments and practice have shown that the white fly is destroyed in all except two stages (egg and late pupal) by an amount of potassium cyanide which is extremely small as compared with the amounts generally recommended for other insect pests. As small an amount as 0.005 gram (28.35 grams=1 ounce) per cubic foot of space or between one-fifth and one-sixth ounce per 1,000 cubic feet, for three hours' exposure, has been used with success, while as large an amount as 1 ounce per 1,000 cubic feet for an "all-night exposure," in a house containing infested tomatoes, has been reported to have given, in one instance, a like result. On the other hand, Mr. E. C. Ritue, of the Bureau of Plant Industry of the Department of Agriculture, in attempting to control the white fly infesting tomatoes in a greenhouse, on the grounds of the Department, found that 0.01 gram per cubic foot, or one-third ounce per 1,000 cubic feet, slightly injured the plants when the exposure exceeded thirty minutes. This treatment for thirty minutes destroys only the

used without the slightest danger to other plants. In most cases much larger rates of potassium cyanide per cubic foot can be used.

Time to Fumigate, Preparation of Greenhouse, and Method of Generating Gas.—Fumigation of plants with hydrocyanic acid gas should be at night and the foliage of the plants should be dry. The greenhouse to be treated should be made as tight as possible, all entrances but one closed and locked, and arrangements made to open a few ventilators from the outside at the expiration of the period of exposure. A house when fumigated should not be unnaturally tight as a result of rain or snow, otherwise the greater amount of gas confined in it under these conditions may injure the plants. The materials used for the generation of the gas are 98 per cent. potassium cyanide, commercial sulphuric acid, and water, the proportions generally used being one-half more acid (liquid measure) than potassium cyanide, and one-half more water than acid. Having determined the cubic contents of the house and the total amount of potassium cyanide, sulphuric acid, and water to be used, these should be divided into parts representing each 25 feet of length of the greenhouse. Owing to the small amounts of the acid and water, small receptacles must be used. Six or eight inches is a desirable height for the receptacles, while the diameter should be as small as possible to use, preferably not more than two and one-half inches. They should be either of earthenware or glass. In many cases, ordinary glass tumblers will be suitable, though the diluted acid should never more than one-fourth fill the receptacle; otherwise the violent chemical action which follows the introduction of the potassium cyanide might result in the loss of considerable of the material. Each lot of the potassium cyanide should be pulverized or broken up into small pieces, wrapped in thin paper, and laid beside one of the receptacles, these being placed at intervals of about 25 feet on the floor of the house. In each receptacle first pour the proper amount of water and then the acid. Beginning with the end of the house farthest from the exit, drop into each receptacle, in succession, the package of potassium cyanide, proceeding as quickly as possible toward the exit. During the few seconds the operator is in the house after the generation of the gas is started, the breath should be held to prevent even the least bad effects. Close and lock the door of the house and, after three hours, partially ventilate it by opening the ventilators, previously arranged for opening from the outside. One ventilator for every 25 or 30 feet, opened for ten or fifteen minutes, is sufficient to protect the plants from possible bad effects of overexposure to the gas. Before inhaling air in the house, however, the ventilation should be more thorough, so that no odor of the gas, which is much like that of peach pits, can be detected. The morning after the fumigation the contents of the receptacles should be buried.

Time for Subsequent Fumigations.—A single fumigation, according to the directions given above, will destroy practically all of the insects except the eggs and some of those in the late pupal stage. Although one such treatment might check the insects so that they would not cause noticeable damage for weeks, in many cases it would be the part of economy to give two more fumigations at times which a knowledge of the life history of the white fly indicates would be most advantageous. Knowing that the egg and late pupal stage of the insect are not to any great extent affected by the treatment recommended, while all the other stages may be destroyed, and knowing the duration of each stage, we can outline a plan of treatment which will practically eradicate the pest in the worst-infested greenhouses. Two subsequent fumigations, two and four weeks, respectively, after the first will subject to the gas all of the white flies in the house in stages wherein, under ordinary circumstances, they are unable to withstand its destructive effects.

Treatment When the Use of Hydrocyanic-Acid Gas is Undesirable.—Fumigation with tobacco fumes, made by burning the refuse stems and leaves, has no effect on the greenhouse white fly beyond temporarily stupefying the adults. The adults may be destroyed, however, by vaporizing in the infested house certain tobacco extracts which are sold in liquid form. To accomplish this result preliminary tests should be made, first using the amount recommended in the directions accompanying the preparation. The attempt to control the greenhouse white fly by means of tobacco extracts alone has never, to the writer's knowledge, proven successful, while many cases of failure have been reported. The frequent fumigation necessary to control the insect when once it has become abundant would be impractical and costly. However, in connection with syringing the plants with a soap solution such a treatment may sometimes be of value, although only when the use of hydrocyanic acid gas is impossible or for some reason undesirable.

Among the soaps, the best brands of whale-oil soap, used in the proportion of one to one and one-half ounces per gallon of water, have been found to destroy all of the white flies except the eggs, a small percentage of the nearly mature pupae, and from 25 to 50 per cent. of the adults which escape the spray by flying from the plants. It is not advisable to syringe tomato plants in greenhouses at any time, when avoidable, as syringing interferes with pollination and produces a damp atmosphere which promotes rot, but the injury by syringing may be as nothing compared with that which is caused daily by the insects. When the use of hydrocyanic acid gas is impractical, an all-night fumigation with a tobacco extract is recommended, followed during the next day by a syringing with a solution of whale-oil soap or its equivalent.

Comparative Cost of the Treatment.—Potassium cyanide costs from about 30 to 50 cents per pound, according to the amount purchased. Commercial sulphuric acid costs from about 2½ to 10 cents per pound. The entire cost for a single fumigation of a greenhouse containing 20,000 cubic feet is between 20 and 30 cents. The labor required is scarcely, if any, greater than for fumigation with other materials. A single fumigation with a suitable tobacco extract would cost, in a house of the same size, at least \$1.50, and the cost of labor for the syringing which is recommended to follow such fumigation would probably not be less than \$1. The soap required would cost only a few cents, though possibly as much as the materials used in a fumigation with hydrocyanic acid gas.

Caution.

Hydrocyanic acid gas is one of the deadliest poisons known, and should always be handled with the greatest care. Never hold the potassium cyanide in the bare hand when pulverizing, but wrap up the lumps in two or more thicknesses of cloth before breaking with a hammer. Dust or small pieces of potassium cyanide should not be thrown away in exposed places, but always buried as should the contents of the receptacles of the chemicals after the fumigation. Never inhale air in a greenhouse after the generation of gas has begun, and provide against anyone entering the house before it is properly ventilated.—With Circular No. 57, Bureau of Entomology, Department of Agriculture.



FLORAL TESTIMONIAL TO ALDERMAN BARRY, ORANGE, N. J.

Artist, Hale, Orange

Photo by John McGowan

adults. The greenhouse is a new one, and, judging from the great difference in the results obtained there and in other houses whose fumigation has been recorded in various publications, it is tighter and does not allow the gas to escape as readily as does the average forcing house.

This shows that the greatest difficulty attending the use of hydrocyanic acid gas, in greenhouses containing plants as susceptible to injury by it as are the cucumber and tomato, is the difference in the tightness of different greenhouses. It is consequently impossible to give specific directions which will be suitable under all circumstances. A fumigation with hydrocyanic acid gas which will kill adults only is not effective for practical use in checking the multiplication of the white flies. Rather than this, the method of control described under the heading, "Treatment when the use of hydrocyanic acid gas is undesirable," is greatly to be preferred.

In most greenhouses, probably 0.007 gram of potassium cyanide for each cubic foot of space for an exposure not exceeding three hours represents the amount which will prove most effective for treatment of the insects without injury to tomato or cucumber plants. In many cases 0.01 gram per cubic foot has been found suitable for the same exposure, but this should not be used except in loose greenhouses where, after trial, a smaller amount is found ineffective. In all greenhouses when an attempt is to be made to control the white fly with hydrocyanic acid gas, it is advisable to first use not more than 0.005 grain per cubic foot of space for a three hours' exposure. If this amount is sufficient for the house, none of the adults will recover after the fumigation, though in the course of two or three days many more will emerge from the pupa cases. The larvae, when destroyed, as they should be by the fumigation, change in two or three days from their normal glistening, greenish color to a yellowish or brownish color. When this result is not obtained by the first test, one or more further tests should be made, increasing the amount of potassium cyanide 0.001 gram per cubic foot of space for each test, with three days intervening to note results, until an amount is reached which is sufficient to destroy the larvae, or until the tender leaves of the plant show injuries as a result of the fumigation.

Tests, thus far, with other greenhouse plants likely to be attacked by the white fly, according to available records, have all been for a much shorter exposure than three hours and, with a much larger amount of potassium cyanide, but it is probable that in case plants other than the cucumber and tomato require treatment for this insect, preliminary tests in a fumigating box or in a small greenhouse will show that the amount of chemicals and length of exposure recommended for these two can be



Growing Seedlings.

(Read by George M. Hollis before Toronto Gardeners and Florists' Club.)

I grow quite a few carnation and chrysanthemum seedlings every year; so far have met with some success and hope to get higher up the ladder before I give up. I should like to see more growers take it up. We in Canada should be able to do something to hold our end up and bring out a variety that would be a credit. The raiser of seedlings must not be disappointed at not getting anything good the first, the second or even the third year, but after that he should have some success. In the first place, he must make a start and the plants raised the first year should be the foundation of the seedling stock. The color of the flower does not matter much provided the plants are strong, with stiff flower stems, and an upright growth, the flowers not very full in the petals and calyx non-bursting. Select the plants you mean to seed as above. Take the pollen from some healthy, strong-growing plants, never weak, puny ones. Nor is anything gained, I think, in getting all the new ones to work with, unless some new variety would give you some advantage in vigor, also in size of blossom. But with good judgment in selecting your seedlings, it is better to work with them.

In the dull days of Winter it is not so easy to cross the flowers as during the warm, bright weather of early Summer, as many varieties have no pollen anthers before they burst. The petals should not be cut off, and two days after the pollen can be put on the pistil, bringing it to the flower with a pair of small forceps. Do this about noon when the sun is shining and, if successful, by next day the flower will close; if not, repeat. After a few days pull out the dead petals. Some varieties will not seed, but the pollen from them, in nearly every case, is wonderfully effective.

Label your crosses and keep an account of them. When the seed pods show signs of bursting, gather and put each in a separate paper and keep in a tin box in a cool, dry place till sowing time. The best time for sowing, I think, is February. The seedlings can be grown on in pots, or flats, and planted outside in May.

Do not stop the seedlings. Let them flower; and do not be afraid to pull out the bad flowers and the poor growers, and after planting inside, you will have more to pull out. Out of five hundred you may end with twelve or less. Cross them again and sow. Select and house as before and propagate any you think worth saving. They may be good as seedlings, but when grown from cuttings they may be far from good.

The carnation, as grown for cut flowers, has practically no rest. The cutting taken cannot in a sense be called a new plant, as it is only a branch, so to speak, of the old plant, and if ever propagated and badly treated a good kind may soon be ruined. So seedlings of extreme vigor, propagated and grown with care, are what are wanted, and when put on the market they should keep in health and vigor for many years.

The last two years I have lost mostly all of my seedlings by being flooded when planted outside, and this year I have to work up a new stock. I am using some singles which, I hope, will give me some vigorous plants to seed next year. Some will say to use singles is going backward, but in my opinion this is not so. There are some grand varieties sent out this year, but there is room for something better yet, and I hope this brief paper will induce all you carnation men to try for the top.

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CRIMSON—Harlowarden 2.50 20.00
VARIEGATED { Judge Hinesdale 4.00
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CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
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CHICAGO WHITE	12.00	100.00	NELSON	1.50	12.50
RICHMOND GEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIGHBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
BOSTON MARKET	2.50	20.00	QUEEN LOUISE	1.00	9.00
ADONIS	2.50	20.00	PERU	1.00	9.00
ESTELLE	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

Rooted Cuttings

	Per 100	Per 1000		Per 100	Per 1000
CHATENAY	\$2.50	\$20.00	BRIDE	\$1.50	\$12.50
UNCLE JOHN	2.50	20.00	IVORY	1.50	12.50
BRIDESMAID	1.50	12.50	PERLE	1.50	12.50

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	Per 100	Per 1000		Per 100	Per 1000
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AMERICAN BEAUTY	6.00	50.00	BRIDESMAID	3.00	25.00
LIBERTY	5.00	45.00	BRIDE	3.00	25.00
PERLE VON GODESBERG	5.00	40.00	IVORY	3.00	25.00
			PERLE	3.00	25.00

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Review of the Market

NEW YORK.—On Monday of this week business in cut flowers started off very nicely, and it looked as though we were in for a general revival. But, alas! the spurt was of but one day's duration, and what with the unseasonably warm weather and a general increase in supplies, trade has gone from bad to worse ever since. The immense shipments of narcissus coming from the South every day are being closed out at from 35c. to 50c. per 100. This stock is all of very fair quality and arrives in good condition considering the distance traveled, and it is no doubt profitable to the growers, even at the above-mentioned figures. It will easily be seen, however, that home-grown narcissus is having a decided setback for the time being, for, while the quality of the latter may be superior, the Southern product fills the bill, in most cases, and price is everything these days when it comes to bulbous flowers.

Roses are gradually going lower and lower. American Beauty can be had in quantity at 12c. for specials and there is a large supply every day. Ulrich Brunner and Liberty are not moving nearly so well as they have done, owing to the supply of General Jacqueminot, which is arriving in quantity. The latter are, in fact, commanding a higher figure than any of the other roses.

Bride and Bridesmaid there are so few of the specials called for that much cutting in prices has to be resorted to before they are finally cleared out and the averages are pulled down proportionately.

Carnations are in oversupply and no fixed prices obtain; really fine stock is to be had at \$1.50 per 100, while flowers, with rubber bands, are at the mercy of the buyers and realize very low figures indeed.

Lilies are abundant; 6c. will buy good long-stemmed flowers, and shorter and inferior blooms are worth only \$3 or \$4 per 100. Lilac is a slow seller; as also are lily of the valley, sweet peas and mignonette. Gladiolus is arriving in limited quantities, and \$1.50 per dozen is an asking price. A few iris have appeared also, but there is no special demand for it so far.

Pansies have become plentiful, as also have stocks and antirrhinum. While there was a little brisker call for violets on Monday morning, it only proved a spasm, for with the afternoon shipments of that day there came the usual oversupply, and prices on violets remain unchanged.

CHICAGO.—Trade conditions are anything but bright here at the present time; there is very little doing locally, although shipping trade remains fairly good. Stock of all kinds is arriving freely, and on Tuesday it began to accumulate in large quantities, with no opportunity to move it. Wednesday morning buyers were able to purchase flowers at nearly their own figures. Summer weather is prevailing, although we are promised relief soon. Large shipments of jonquills are being received from the South, and sell at from 10c. to 15c. per bunch of 25. Also from the same source come big consignments of lilac.

The supply of American Beauty is equal to all demands. Bride and Bridesmaid are beginning to show the effects of the excessively warm weather, both in color and size, and are being received in large quantities. The demand at no time is heavy enough to take all coming in; consequently, prices have declined all around. Meteor are also affected by the heat and are not of as good quality as heretofore. Madame Abel Chatenay are being received in exceedingly fine condition.

Carnations are also in large supply; there is difficulty in moving them at anything like remunerative figures.

Lilies are becoming more numerous as the season advances, and the demand does not seem equal to the supply. Prices range from \$6 to \$15 per 100, according to grade. The market is glutted with tulips, which bring from \$1.50 to \$5 per 100, according to quality. Dutch hyacinths are in abundance. Narcissus are difficult to move at any price. Violets are numerous, and the quality has deteriorated considerably. Smilax is scarce at \$8 to \$12.50 per 100. Sweet peas are now in larger supply; the quality is improving, and some fine stock is being received. The same may be said of daisies. R. J.

CLEVELAND, O.—The condition of the cut flower market remains unchanged with the possible exception of violets, which are now rather scarce, the growers doing all they can to keep them back. Bulbous flowers are moving slowly. Splendid carnations are being sold for more nothing and roses, especially Bride, Bridesmaid, Meteor and Kaiserin Augusta Victoria, are very plentiful. O. G.

ST. LOUIS.—As regards trade in cut flower lines the past week the news is not very encouraging, so far as the retail trade is concerned; the complaint is general that business is dull. The plantsmen and landscapers, however, report that they have all they can do preparing grounds and beds for early planting. The wholesalers are still receiving large consignments from their growers. The stock is difficult to dispose of, and that only at very low prices. Fancy flowers in all grades sell fairly well. What we see in the market is of good quality.

Violets are not so abundant, and most of the Kirkwood growers say that next week will about see the last of them in the market. The best now bring 35c. per 100, and down to as low as 20c.

With roses the market is greatly overstocked. American Beauty, both long and short, are more than enough; fancy long are down to \$3 per dozen, and shorts as low as 4c. each. Other roses, extra fancy, run to \$6 per 100, and down to 1c.

Carnations are in abundance in all colors and varieties, white not excepted; 2½c. buys fancy stock, and 50c. to 75c. per 100 the common sorts.

Callas and Harrisii lilies, single and double daffodils, are more than the trade can use at present. Paper White narcissus and Roman hyacinths are not so plentiful just now. Lily of the valley is extra fine, and plenty of it. Prices remain as last week. Smilax is selling better, with other green in plenty. ST. PATRICK.

INDIANAPOLIS.—The past three or four days business has been very satisfactory. Unseasonable weather continues to the great detriment of the trade. Rhododendrons, azaleas and bulbous stock intended for the middle of April are now on the market. With the continuation of warm weather the outlook for Easter is certainly very gloomy this year, as the choicest plants will be out of the market. Violets are small and not many, if any, will be in bloom for Easter.

Carnations are plentiful, but trouble is being experienced in keeping them; this is especially true of Enchantress, which turns dark on the edges at the end of one or two days; the output of two or three growers has been tested with the same result. Fancy grades wholesale at \$3 to \$3.50 per 100; medium grades bring \$2 to \$2.50.

The demand for roses is fully supplied. Select Bridesmaid, Bride, Golden Gate and Ivory wholesale at \$7 per 100; seconds bring \$4 and shorts \$2 to \$3 a 100. Liberty are of poor quality; selects realize \$10 per 100 and firsts \$6 to \$8. American Beauty have decreased in price; select 36-inch stem flowers may be had at \$30 per 100; 24 to 30-inch bring \$20, and 12 to 15-inch stems \$12.50 per 100.

Marie Louise violets are plentiful at 25c. per 100; fancy Princess of Wales bring 40c. to 50c. Large quantities of lily of the valley have been used for funeral work during the past week; 64 per 100 is obtained for it. Bulbous stock is disposed of with difficulty at \$3.50 to \$4 per 100. Sweet peas are about the only flowers for which there is a strong demand; the best ones sell at \$1 per 100. I. B.

WASHINGTON, D. C.—There has been an abundant supply of flowers this week and only a very limited demand. American Beauty brought from \$4 to \$6; Liberty, \$1.50 to \$2; first-class Kaiserin Augusta Victoria, Souvenir du President Carnot, Meteor, Bride, Bridesmaid, Golden Gate and Ivory, from \$1 to \$1.50 per dozen. The better sorts of carnations sell at from 50c. to 75c.; lily of the valley, 75c. to \$1 per dozen; violets, 35c. to 75c. per 100. Lilac bring \$2 to \$3 per dozen; sweet peas, 25c. to 50c. per bunch; marguerites, 25c. per dozen; daffodils, 25c. to 35c. per dozen; Lillium Harrisii, 15c. per flower; mignonette, 35c. to 50c.; tulips, 25c. to 50c., and Dutch hyacinths, 50c. to 75c. per dozen.

Owing to the very warm weather lately a great many azaleas and lilies, intended for the Easter trade, have become too far advanced. The same may be said of Dutch bulb stock. M. C.

KALAMAZOO, MICH.—Trade continues very fair, very little stock going to waste. Funeral work has been very brisk of late, some considerable orders being sent out of town. The weather all through the month has been quite mild and pleasant, the result being ample supplies and considerable transient trade. Green carnations were in large demand on St. Patrick's Day, and each store disposed of several hundred at 5c. and 10c. each. Shipping trade is reported as holding up well for this season; and thus far Lent has had no effect on business. Easter openings this week will use up some stock, so the prospects are at least fairly good till Easter week. S. B.

BOSTON.—Durling the past week there has been a fairly good demand for most kinds of stock. Roses have remained in practically the same condition all the week, although Saturday saw a slight change. American Beauty are a trifle lower in price, there being little demand for them.

Carnations have remained firm, with a slight increase in prices over last week. Bulbous stock is unchanged. Lilies are becoming very plentiful, with a decrease in price. There have been fewer violets coming in, consequently the glut of these is over for this season. All other kinds of stock remain in about the same condition as a week ago. J. W. D.

NEW BEDFORD, MASS.—The past week has been a very good one as regards trade, funeral work having cleared up all the surplus stock. Prices are about as usual. Sweet peas are now coming into the market of very good quality. Spring openings in some of the stores have helped things along, but this branch of the business does not amount to much in this section. HORTICO.

SYRACUSE, N. Y.—Trade here has been very good the past two weeks and the numerous millinery openings have kept the florists busy putting in extensive decorations. There is abundance of stock in all lines of very good quality, carnations leading the demand. There is an increasing call for potted plants in bloom. J. B. B.

OMAHA, NEB.—Trade has held up remarkably well despite the advent and reign of Lent. The extremely open and mild weather causes many inquiries for plants and seeds. Pot plants have sold very steadily all winter, and even at this season many are being disposed of. This condition has grown greatly in the last few years. J. H. B.

PITTSBURG.—Business is slow, with plenty of stock coming in. Roses and carnations are of good quality and prices very reasonable. The warm weather is bringing on bulb stock, and if it should continue for some time it will be a difficult matter to hold back flowers for the Easter holidays. E. C. R.

PROVIDENCE, R. I.—Although a full market exists, with only average prices, business continues good. Carnations fetch \$2 per 100 wholesale; roses, 3c. to 6c. each. Violets still hold at 50c. per 100, but the quality is gradually falling off. C. S. M.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

CANTON.—Jacob Handte, who has been in charge of greenhouses at Calla, O. for some years, has purchased a greenhouse plant near this city.

IOWA CITY, IA.—James Aldous, Sr., and James Aldous, Jr., are planning to build a number of greenhouses here, and start in business. Both are experienced florists.

WASHINGTON, D. C.—Wallace Kimnell, who has been employed in George Cook's store, has opened a store on his own account, at 14th street and Massachusetts avenue, N. W. M. C.

ALLIANCE, O.—The Lamborn Floral Company has been incorporated with a capital stock of \$25,000. Incorporators: C. C. Weybrecht, L. L. and Mary Lamborn, H. C. Koehler and Ruth Butge.

SUPERIOR, WIS.—Albert Otto, a florist from Antigo and Neenah, Wis., has purchased ten acres of ground here, and will embark in the business. He contemplates erecting from 15,000 to 20,000 square feet of glass.

BEAVER'S FALLS, PA.—The greenhouses near Junction Park, formerly known as the Myer's greenhouses, and lately conducted by B. F. Engle, of Rochester, changed hands at noon on March 15. The new firm will be styled the Junction Park Greenhouse and Nursery Company, and will be managed by Otto Minor.

DETROIT, MICH.—Philip Breitmeyer, Frederick and William Breitmeyer, of Mt. Clemens, and Thomas B. Barnett, of Detroit, have incorporated as John Breitmeyer's Sons, with \$75,000 capital stock, of which \$2,500 has been paid in cash and \$72,500 in other property, including the present florist's establishments at Detroit and Mt. Clemens.

BUSINESS DIFFICULTIES.

SHELBYVILLE, IND.—Willis F. Law, manager of the Law Floral Company, which has been doing business in this city for the last fifteen years, has made an assignment on account of poor trade. The liabilities are scheduled at \$832 and the assets at \$408.25.

FIRMS WHO ARE BUILDING.

LIMA, N. Y.—M. P. Allen is building a greenhouse.

PORT CHESTER, N. Y.—Emil Leonhard is building a new greenhouse 30 x 15 feet.

TOLEDO, O.—Krueger Bros. are increasing their greenhouse capacity one-third.

SHAWOMET, R. I.—Leonard L. Potter will build a greenhouse, 150 x 24 feet, for carnations.

POST FALLS, IDAHO.—W. S. Vandorn is erecting a greenhouse, 54x154 feet. He is also installing a 45-horsepower boiler.

COLDWATER, MICH.—Van Aken Bros. will build two new greenhouses, each 26 x 116 feet, for American Beauty roses and general stock. They have now fourteen greenhouses in all.

New Bedford, Mass.

News Notes.

E. H. Chamberlain had a very pretty window display last week composed of some elegant pots of Gloire de Lorraine begonias. These were grown by Peter Murray, of Fairhaven, who has leased Winsor's place. Mr. Murray is an expert in the culture of this beautiful plant.

At the next meeting of the Horticultural Society Mr. Murray will give an interesting talk on begonias, which is being eagerly looked forward to. This society is fast becoming an important factor in this section, some of its members being among the most influential people of the city. It is expected to have a fine exhibition September 14 to 16, very generous premiums having been donated for this purpose.

Violets in this section will soon be a thing of the past, and by Easter will have been thrown out to make room for bedding plants, of which a good many are grown around here. This has been a good Winter here for the florists.

At Robert H. Woodhouse's place things are being put into shape for the Spring rush. At this establishment a large number of bedding plants is grown. His carnations are in good shape, especially a bed of Fair Maid. This variety has done well with Mr. Woodhouse, it having entirely taken the place of Enchantress. He is trying a great many new varieties this year, both in carnations and chrysanthemums.

H. A. Jahn has some fine carnation seedlings; several of them seem to be very promising. HORTICO.

FORT DODGE, IA.—On March 9 a fire in the Dunscombe greenhouses did damage to the extent of \$100.

Worth Ten Times Its Price.

The Florists' Exchange is worth ten times what is asked for it. Louisiana. SAMUEL STOKES.

BLACK
STUFF
FINE

TOBACCO POWDER
(For Sprinkling)

STRONGER and FINER

than others. Our free five-pound trial bag costs nothing more than the express charge on it. Our booklet tells what your brother growers think of it. We mail one on request.

THE H. A. STOOHOFF CO.
TOBACCO POWDER HOBBYISTS
116 WEST ST., N. Y. CITY

Mention the Florists' Exchange when writing.

THE CARDINAL

Has proved to be the BEST SCARLET CARNATION in the market to-day. Sample blooms shipped from the Chicago Carnation Co. for your inspection at cost price.

ROOTED CUTTINGS, NOW READY
\$12.00 per 100; \$100 per 1000.

Introducers:

E. G. HILL CO., Richmond, Ind.
CHICAGO CARNATION CO., Joliet, Ills.
S. S. SKIDELSKY, 824 North Philadelphia, Pa.
24th St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

CARNATIONS

Chrysanthemums and Violets
Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Kennett Square, Pa.

Mention the Florists' Exchange when writing.

The Lewis Conservatories

MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist

Mention the Florists' Exchange when writing.

FOR IMMEDIATE DELIVERY

Carnations from Soil

Red Lawson, \$10.00 per 100; White Lawson, \$5.00 per 100. The Queen, \$2.00 per 100.

Chrysanthemums

Helen Frick, John Burton, \$5.00 per 100; 2 in. pots. William Duckham, Dr. Enguehard, Paola Radelli, Amorita, from 2 in. pots, \$3.50 per 100; \$25.00 per 1000. Eaton, Robinson, Ivory, Polly Rose, Mrs. Coombs, Appleton, Balfour, Shaw, Jones, white and yellow, etc., \$3.00 per 1000, from 2 in. pots. Rooted cuttings, \$12.50 per 1000; unrooted cuttings, 7.50 per 100.

Geraniums

Double Dryden, the best of all recent novelties, 2 1/2 in. pots, \$5.00 per 100; 4 in., \$8.00 per 100. Assorted novelties of recent years, 2 1/2 in. pots, \$4.00 per 100; 4 in., \$5.00 per 100.

Hardy Phloxes

We were awarded a Silver Medal for our St. Louis exhibit of Hassack and Cromwell. Field grown plants, \$1.00 per doz.; \$7.50 per 100.

CASH PLEASE

HENRY EICHHOLZ, WAYNESBORO, PA.

Mention the Florists' Exchange when writing.

CARNATIONS

Per 100	Per 1000
Harlowarden, crimson.....\$3.00	Flora Hill.....\$2.50
Harry Fenn.....2.00	Prosperity.....2.00
Enchantress.....4.00	Gov. Wolcott.....2.00
Fair Maid.....2.00	G. H. Crane.....3.00
Alpine Glow, very free.....1.50	Challenger.....2.00
Queen Louise.....1.50	T. W. Lawson.....3.00
Mrs. Fisher, for field blooming, from 1 1/4 in. pots, well established.....2.00	Frances Joost.....1.00
Exceptionally healthy and well rooted. 10 per cent. off by the thousand.	Wm. Scott.....1.00

HANSEN & LUNDSTED, Passaic, N. J.

CARNATIONS

Clean, Healthy Stock, Well Rooted.
Satisfaction Guaranteed

RED	Per 100	Per 1000
Crusader.....	\$5.00	\$45.00
Flamingo.....	5.50	45.00

LIGHT PINK	Per 100	Per 1000
Enchantress.....	3.00	25.00

PINK	Per 100	Per 1000
Mrs. Lawson.....	1.50	12.50
Mrs. Nelson.....	1.50	11.00
Guardian Angel.....	1.00	8.00
Mrs. Joost.....	1.00	8.00
Genevieve Lord.....	1.00	8.00

WHITE	Per 100	Per 1000
Boston Market.....	2.50	20.00
Peru.....	1.00	9.00
White Cloud.....	1.00	9.00
Queen Louise.....	1.00	9.00
Flora Hill.....	1.00	8.00

VARIEGATED	Per 100	Per 1000
Mrs. M. A. Patten.....	5.50	45.00

Rooted Rose Cuttings—	Per 100	Per 1000
Bridemaid.....	1.50	12.50
Bride.....	1.50	12.50
Ivory.....	1.50	12.50
Golden Gate.....	1.50	12.50

GEORGE REINBERG
51 Wabash Ave., **CHICAGO**

CARNATIONS

Wm. Penn, a promising pink novelty, the greatest bloomer ever happened. From soil, \$10.00 per 100; 25 for \$2.50. **Queen Louise**, from soil, \$10.00 per 1000 **Floriana**, from soil, \$12.50 per 1000.

BIG BATCH OF CUTTINGS FROM SAND READY NOW

CERANIUMS

ROOTED CUTTINGS
Next delivery April 17. \$10.00 and \$12.50 per 100.

100,000 Smilax, 50,000 Asparagus Sprengeri, 50,000 Asparagus Plumosus and Robustus. Ready June 1. Send for Prices.

SEND FOR MARCH PRICE LIST

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

H. WEBER & SONS

announce the completion of arrangements whereby they will, beginning in January, 1906, disseminate jointly with

THE E. G. HILL CO.

THEIR TWO GRAND NEW CARNATIONS

My Maryland and Jessica

MY MARYLAND is already well known, having been exhibited freely at the various flower shows and florist club meetings the past Fall and Winter, and in every case elicited the highest praise and most favorable comment. We pick this variety to quickly and easily displace all other whites for first honors, not alone in exhibition, but in commercial points as well. We claim for it a robustness of constitution quite unequalled in any other variety and an ease of culture that will delight the heart of the grower. The great vigor of both parents (Norway X Lawson) seems united and improved upon in this variety.

In **JESSICA** we have in the red and white variegated class, what My Maryland will prove amongst white. It is descended through several generations of variegated seedlings of Helen Keller and Bradt extraction on the one side and Lawson on the other. A strong, thrifty growing variegated seedling bearing the seed. It is a trifle heavier in growth than My Maryland and just Lawson height. Aside from these differences and the color, the description of My Maryland applies to Jessica. Under favorable conditions four-inch blooms are not uncommon. We pick Jessica to win over any other variegated variety.

Both of the above are free propagators. We are thoroughly familiar with them and know what they will do. We will be in a position to deliver stock early and on time, and assure the trade that no disappointments will result on that score.

We have already booked many orders. It pays to be early. Orders booked are subject to cancellation by the buyer if unsatisfied with either variety up to the time the cuttings are received.

Price: \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

WEST OF PENNSYLVANIA, address

EAST OF OHIO, address

THE E. G. HILL CO. H. WEBER & SONS
Richmond, Ind. Oakland, Md.

Mention the Florists' Exchange when writing.

\$12.00 per 100
\$100.00 per 1000
250 at 1000 rate

VICTORY

TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

	Per 100	Per 1000		Per 100	Per 1000
WHITE LAWSON.....	\$6.00	\$60.00	HARRY FENN.....	\$2.00	\$20.00
NELSON FISHER.....	6.00	60.00	GOETHE, light pink..	2.00	20.00
MRS. PATTEN.....	6.00	60.00	GENEVIEVE LORD..	1.50	15.00
ENCHANTRESS.....	3.50	30.00	MANLEY.....	3.00	25.00
PROSPERITY.....	2.50	20.00	MAGEO.....	1.50	15.00
THE BELLE.....	6.00	60.00	CERVERA.....	1.50	15.00
LADY BOUNTIFUL..	6.00	60.00	LAWSON.....	2.00	15.00

5 per cent. discount for cash with order. Send your orders early.

ALEXANDER J. GUTTMAN

52 W. 29th St., New York City.

Mention the Florists' Exchange when writing.

FOR SPRING SALES

You will need some of the following for your retail trade. WE GUARANTEE QUALITY. Send us your order now; we ship when you say the word.

Table listing plants like HYDRANOE PANICULATA, GRANDIFLORA, CLEMATIS JACKMANII, etc. with prices per dozen.

Table listing plants like H. P. ROSES, AMPELOPSIS VEITCHII, TREE ROSES, etc. with prices per dozen.

BULBS

Table listing bulbs like DAHLIA ROOTS, CALADIUM ESCULENTUM, etc. with prices per dozen.

Table listing bulbs like CALADIUM ESCULENTUM, CANNAS, GLADIOLUS, etc. with prices per dozen.

And a complete assortment of all SHRUBS, VINES, BULBS, etc. Write for prices on any stock in this line you might want. We can, and will make it worth your while.

E. F. WINTERSON CO., 45-47-49 Wabash Ave., CHICAGO

Mention the Florists' Exchange when writing.

ARAUCARIA EXCELSA

From \$1.25 to \$2.00 each. Kentia Belmoreana, from 50c. to \$5.00 each. Rubber Plants, from \$6.00 per doz. up. Cyclamen, \$3.50 per doz. up.

WM. A. BOCK, NO. CAMBRIDGE, MASS.

Mention the Florists' Exchange when writing.

FERNS, COCOS and KENTIAS

I make a specialty of Small Ferns for jardinieres, etc. A good variety of the right kinds, 2 1/2 in., \$3.00 per 100. Cocos and Kentias, 4 in. for centers, 10c. ea.; \$9.00 per 100. Boston and Pierson Ferns, 2 1/2 in., \$1.00 per 100. Dracena Indivisa, 6 in., 36c. and 60c. ea.; 4 in., 10c. Geranium Mme. Salterol, 2 1/2 in., \$2.00 per 100.

H. WESTON, HEMPSTEAD, N. Y.

Mention the Florists' Exchange when writing.

Boston Ferns

Extra fine stock, cut from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100. Kentias, Rubbers, Asparagus, Plumosus Nanus. Cash or references, please.

L. H. FOSTER, 45 King St. DORCHESTER, MASS.

Mention the Florists' Exchange when writing.

SCOTTII

The Most Graceful Nephrolepis Known.

Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced.

Consult any grower who has bought Scottii and he will tell you that it is as far ahead of the Boston as that variety is ahead of all other introductions.

See my ad. on page 389 of last week's FLORISTS' EXCHANGE for full particulars.

JOHN SCOTT, 1207 WILLIAMSBURG.

Mention the Florists' Exchange when writing.

PALMS AND FERNS

Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; Pierson and Boston Ferns, 5 in., \$25.00 per 100; 6 in., \$50.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Lantana Borbonica, 3 in. pots, \$6.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Areca Luteacens, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants, from \$1.50 up. Araucaria Excelsa, 4 in., 6c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Araucaria Compacta, from \$1.00 to \$5.00 each. Pandanus Urtica, 6 in. pots, 50c. Dracena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Reclinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$8.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Azaleas, 10 in.-12 in., \$50.00 per 100. Larger sizes at lowest rates. Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa.

Mention the Florists' Exchange when writing.

Chicago.

Late News. Peter Reinberg broke ground Monday for a new range of houses, 33 x 250 feet, to be devoted to roses.

On March 23 John C. Moninger lost \$4,000 through fire. This, however, will cause no delay in turning out material.

T. D. Mesconotes sold out to his brother Saturday last.

Otto Freese, formerly with George Reinberg, has accepted a position with Pochlmann Brothers.

On Tuesday last the trustees of the estate of M. Winandy sold his wholesale store, at 51 Wabash avenue, to Messrs. John Zeck and Math. The former has been in the wholesale business for a number of years; Mr. Math is a grower.

There is a veritable glut of stock; prices are very low, with no hope of betterment for some time.

The Heather

IN LORE, LYRIC AND LAY

By ALEX. WALLACE

Tells the Story of Scotland's Famous Mountain Flower in Prose and Poetry. Full cloth, 289 pages, freely illustrated, including frontispiece in color.

PRICE \$1.50, Postpaid

A. T. De La Mare Ptg. & Pub. Co. Ltd. 4-8 Duane Street, NEW YORK

Mention the Florists' Exchange when writing.

ORCHIDS

We have just received in superb condition, our first shipment of Cattleya Labata.

LAGER & HURRELL, Summit, N. J. Orchid Growers and Importers

Mention the Florists' Exchange when writing.

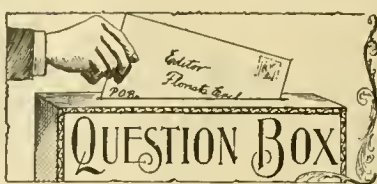
FISCHER'S

GRAND FREESIA PURITY

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss, bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Bulbs no larger than dried wax beans of this grand Freesia make as large a flower as the large bulbs, only the stems are shorter. All growers should try some of this Queen of Freesia, for when "once grown always grown." Price for large bulbs, \$1.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y.

Mention the Florists' Exchange when writing.



Color of Cartledge and Estelle Carnations.

(126) Kindly inform me if there is any resemblance in the color of the above mentioned carnations.

COLOR BLIND. -We have no means of comparing these two scarlet carnations at present, but if inquirer will kindly send us flowers of each variety, we will endeavor to answer his question more fully.

Carnation Compost. (130) I wish to make a compost for carnation soil, a concentration to mix with sod when filling benches.

Night Temperature for Carnations. (131) What night temperature should be afforded carnations Enchantress, Lady Bountiful and Prosperity?

Coal Ashes with Carnation Soil. (132) Kindly let me know if coal ashes mixed with heavy soil would improve it for growing carnations?

A Rambler Rose Trouble. (133) I send you a sample of my Rambler roses. They are fine, healthy plants, in 5 and 6-inch pots.

Chrysanthemums. (134) Before I received the "Chrysanthemum Manual" I had taken my cuttings out of the sand and transplanted them into boxes about 2 1/2 or 3 inches in depth.

Heating. (135) We have three greenhouses of the following dimensions: One 80x12 feet, even span, and 10 feet at ridge.

EMERSON C. McFADDEN

Wholesale Florist and Grower Specialties ASPARAGUS-SMILAX-ROSES

Tel. 28 A SHORT HILLS, N. J.

Mention the Florists' Exchange when writing.

4 Ferns You Will Want

Scntii, 6 in., \$1.00 each; 4 in., 50c. Boston, 4 in., \$12.00 per 100; 2 1/2 in., strong, \$4.00 per 100

ASPARAGUS SPRENGERI, 4 in., fine, 8c. Cash Please.

BENJAMIN CONNELL, West Grove, Pa. Mention the Florists' Exchange when writing.

BOSTON FERNS NICE YOUNG STOCK

\$10 00 per 1000. ZAMIA INTEGRIFOLIA \$12.00 per 1000.

Shipped by freight. Send money order on Little River, Fla.

SOAR BROS., Little River, Fla. Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON

JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA. Mention the Florists' Exchange when writing.

FOR SALE-BARGAINS.

Table listing plants for sale like Asparagus Plumosus Nanus, Ampelopsis Veitchii, Snapdragon, etc. with prices.

E. I. RAWLINGS, QUAKERTOWN, PA. Mention the Florists' Exchange when writing.

KENTIA BELMOREANA

Fine, healthy 4 in. stock, ready for a shift, \$40.00 per 100.

A. SCHMITT, Cleveland, O. Station H. Mention the Florists' Exchange when writing.

wood ashes and sheep manure, if any, should be added to the superphosphate and bone meal. Then, should two inches of half-decayed cow manure or inverted sod be placed on the benches before filling? SUBSCRIBER.

-To prescribe certain amounts of prepared fertilizers for a soil which we know nothing about would only be guess work at the best. If there is good sod land and cow manure, as the letter implies, we would make the compost of these two in the proportion of one part manure and four parts of the soil. When the benches were being filled, instead of putting two inches of sod, or manure, in the bottom, just cover the cracks with the rougher pieces of the sod and fill in with the compost, adding at the same time a five-inch potful of bonemeal to each wheelbarrowful of the soil.

-A suitable night temperature for the varieties mentioned would be from 50 to 52 degrees. They can be grown a few degrees warmer, but the flowers are not so good on the average.

-We would not recommend mixing coal ashes with any soil. Why not use builders' sand, or gravel, to lighten the soil?

-The roses that have not yet shown the buds will be too late for Easter, and they had better be held back rather than forced, so as to make saleable plants for Memorial Day.

-The chrysanthemums will no doubt come along all right. If four leaves have been left below where they were stopped, they will soon break away and start new leads.

-The floor of boiler room is ten feet below greenhouse floor. How much more, if any, would the boiler mentioned heat?

W. B. F. M. F.

—To properly heat the three houses 55 degrees inside, with outside temperature of 15 to 20 degrees below zero, will require about 3,300 square feet of heating surface. The capacity of the boiler mentioned, under fair conditions, will be 7,500 square feet, with a properly proportioned grate. The size of the grate mentioned, 25 square feet, will do or 3,300 square feet necessary for the greenhouses. The excess in size of boiler will result in economy of fuel, as the boiler can be run easily. This boiler can be used at low pressure, and attachments can be placed on it to regulate it. I would suggest having a good safety valve placed on the boiler, set at, say, ten pounds. After the ball is set, strap a piece of wood along the iron rod of the safety valve, so that the ball cannot be moved beyond the pressure indicated. This will absolutely insure no trifling with the safety valve, and the boiler will be under absolute control at this stated pressure.

U. G. SCOLLAY.

What size tubular boiler will be required to run 5,000 feet of 1½-inch pipe, fed by 400 feet of asbestos covered 3-inch steam pipe? What size coal will be the most economical for such a boiler? How much fuel ought it take to run that amount of pipe twenty-four hours?

H. S.

—A 40 horse-power tubular boiler will be required to do this work economically. Pea coal will be the most economical for such a boiler, assuming that you have a night man. If pea coal is used, it will take about 120 tons per season. It is a difficult matter to tell a florist how much coal a boiler will burn in twenty-four hours, as conditions of firing vary much. We find that the best way to impress a florist regarding any boiler is to let him know the amount of coal burned per season; he can then make his own calculations.

U. G. SCOLLAY.

White Fly.

(136) Kindly inform me of a good way to destroy a little white fly that attacks different plants like fuchsia heliotrope, salvia, lantana, and others. The flies are commencing to lay their eggs all over the leaves. I have fumigated with tobacco powder a number of times, but without avail.

H. M.

—See the Government expert's report on this insect in another column of this issue.

Growing Different Roses in One House.

(137) Is it right to grow the Maman Cochet and Kaiserin Augusta Victoria in the same house as Liberty, Bride, and Bridesmaid, and what is the probable cause of the leaves falling off the former while all the others are doing well? There is not a red spider in the house. My predecessor gave the plants liquid cow manure once a week; but they made a weak growth. The soil is new, clayey; and the plants are in solid beds. Upon digging up two of them I found the fine roots without any apparent life. They have been planted more than a year, and were very hard pruned back last October.

ENGLAND.

—We do not see why the Cochet roses should not do equally well with the other varieties mentioned in the same house. Probably the cause of their failure is due to the hard pruning they received last Fall. Tea roses do not require such severe cutting back as the hybrid teas.

ORCHIDS FLORISTS' ORCHIDS

Largest Importers, Exporters, Growers and Hybridizers in the world. SANDER & SONS, St. Albans England Agent, A. Dimmock, 31 Barclay St., N. Y. City. Mention the Florists' Exchange when writing.

EASTER PLANTS

Now Ready AZALEAS a Specialty All Colors. Three Houses Full

HYDRANGEAS YELLOW DAISIES HYACINTHS WHITE DAISIES SPIRÆAS GERANIUMS, Etc.

PAUL BRUMMER, Florist Grove Street, Corona, L. I., N. Y. Mention the Florists' Exchange when writing.

CYRTOMIUM FALCATUM

The Holly Fern

15,000 fine, bushy plants, in 2 in. pots, ready April 15. These will be strong and ready to shift into 3 in. pots at once. Grow some of three in pans for your fall trade. It is a beautiful fern with glossy, dark green fronds, and gives satisfaction to your customer, for it is very hardy. \$1.00 per 100; \$25.00 per 1000.

ASSORTED FERNS for immediate delivery. Pteris cretica alba, Wimssett, Serrulata, Aepidium, etc., prime stock, \$3.00 per 100.

Aspidium Teuseemenee, extra good plants, in 3 in. pots. Have just finished a fine growth. 6c. Pteris Tremula, 3/4 in. pots, full, bushy plants, 8c.

Our ferns are grown in as small sized pots as possible, thus giving good bushy plants with small balls of earth. Try them once and you will see the advantage. Careful packing, prompt shipment, liberal count. Cash, please.

R. G. HANFORD, Norwalk, Ct.

Mention the Florists' Exchange when writing.

70,000 Blooming Plants FOR EASTER

20,000 pots Lilium Longiflorum. 12 cts. per bloom.

4,000 Crimson Rambler Roses, trained in unique and artistic designs, \$1.00 to \$25.00 each.

10,000 Azaleas, 75 cts. to \$15.00 each.

3,000 Hydrangeas 75 cts. to \$5.00 each.

3,000 Spiræas \$4, \$5 and \$6 per doz.

3,000 Rose Plants, \$6.00, \$9.00 and \$12.00 per doz.

Rhododendrons, \$1.00 to \$15.00 each.

Genistas \$6.00, \$9.00 and \$12.00 per doz.

Melrosideros (Bottle Brush), \$1.00, \$1.50 and \$2.00 each.

A large assortment of Hyacinths in pans, \$9.00 and \$12.00 per doz.

Wistarias, and other blooming plants.

Cash or Reference

H. C. STEINHOFF

WEST HOBOKEN, NEW JERSEY.

Mention the Florists' Exchange when writing

AZALEAS FOR EASTER

We have a limited quantity of Azaleas suitable for Easter forcing, which are offered for immediate delivery as below in the following varieties :

Mme. Van der Cruyssen, Helen Thielman, Empress of India, Vervæneana, Simon Mardner,

Price:	Niobe, Deutsche Perle	Per dozen	Per 10
10 to 12 inches in diameter at		\$5.00	\$40.00
12 to 14 inches in diameter at		6.50	50.00
14 to 16 inches in diameter at		10.00	75.00

PETER HENDERSON & CO., 35 & 37 Cortlandt St., New York

Mention the Florists' Exchange when writing.

FERNS Our Specialty

We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI

The Most Magnificent Tree Fern in Cultivation.

Extra Large Specimens.

8 in. pots..... 2.75 each; 32.00 per doz.
7 in. pots..... 1.75 each; 20.00 per doz.
Adiantum Cneastum, 4 in..... \$15.00 per 100

ANDERSON & CHRISTENSEN, Telephone Call 14 F., Short Hills, N. J. Mention the Florists' Exchange when writing.

EASTER EASTER EASTER 10,000 Easter Lilies

1500 Long Stem, American Beauty, Bride and Bridesmaid Roses; Carnations, Violets, Von Slons, Daffodils, Paper Whites, Lily of the Valley, Tulips, Sweet Peas and other flowers in season.

Ferns, Leucothoe Sprays, Galax and Asparagus.

Write for Easter prices, or send in your order; I will not overcharge you.

E. G. GILLETT, "The Wholesale Florist"

'Phone Main 2747 113 East Third Street, Cincinnati, Ohio
Mention the Florists' Exchange when writing.



Azalea Indica. My specialty: 3 houses full of my own importation, the cream of 60 cent productions. We sell none in the Fall; therefore they are not picked out for the Fall trade. We force them only for our customers' Christmas and Easter trade. Mme. Van der Cruyssen, the people's choice, the best of all pink varieties. Plants covered with buds, as round as an apple, 60c., 75c., \$1.00, \$1.25, \$1.50 to \$2.00 each. Other best varieties, all shades. Niobe, double white; Bernhard Andreas Alba, white; Empress of India, Professor Walters, Illustre, Paul Weber, Joseph Vermoir, and many others, 60c., 75c., \$1.00, \$1.25 to \$1.50 each.

Lilium Harrisit and Japan Multiflorum. H. F. Mitchell's special bulbs: 6 in. pots, 5 to 8 buds to a plant, 10c. per bud. Under 5 buds, 12c. a bud.

Cineraria Hybrida. Best strain, all shades, 6 in. pots, \$2.00, \$3.00, \$4.00, \$5.00 per doz.

Hydrangea Otakna, pink (a fine white including), 5 in. to 7 in. pots, \$1.00, \$5.00, \$6.00, \$9.00 to \$12.00 per doz.

Spiræa. Two houses full. Floribunda, Japonica and Blondine, 6 in. pots, large bushes, \$3.00, \$4.00, \$5.00 per doz. Compacta, \$2.00 to \$3.00 per doz. Gladstone, unusually fine this year, full of buds, perfect jewels, \$6.00, \$7.00, \$9.00 per doz.

Roses. American Beauty, 5 in. 35c. to 40c. each; 6 in. pots, bushy, 25 to 30 in. high, 50c. to 75c. each; Hardy Roses, including Hermosa, 5 in. to 5½ in. pots, \$3.00, \$4.00 to \$5.00 per doz.

Begonia. President Carnot, Flambeau, three varieties in all, 6 in. pots, \$3.00 to \$4.00 per doz.; 4 in. pots, \$1.80 per doz.

White Dalees, 6 in., \$3.00 per doz.

Hyacinths. Raised from first-size bulbs. Grand Maître, blue; Gertrude, pink; King of the Blues and Le Grandee, white; \$12.00 per 100.

Double Narcissus or Von Sten. Double Nosed Daffodils, 3 bulbs in a 6½ to 6 in. pot, \$2.00 per doz. pots. Turnazol, best selling double Tulp, 3 in. 4 in. pot, \$1.50 per doz. pots.

Araucaria Exceelsa. 25 to 34 in. high, 4, 5, to 6 tiers, 7 in. pots \$1.50 each.

Ficus Elastica (Rubbers), 5 to 7 in. pots, 25 to 35 in. high, \$6.00, \$9.00 to \$12.00 per doz.

Moon Vine. A. W. Smith's Hybrid, \$5.00 per 100.

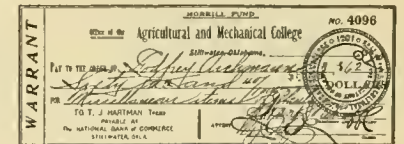
WHOLESALE GROWER AND IMPORTER OF POT PLANTS

GODFREY ASCHMANN, 1012 ONTARIO STREET, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

Headquarters for Easter Plants

Blooming Easter Week, or before if desired. Now ready for immediate shipment. I am noted and have a reputation for the past fifteen years for raising and shipping Choice Easter Plants throughout the land. Nine houses and ever so many hot-beds crowded with them, in better condition than ever before.



December, 10, 1904
The material ordered from you arrived in good shape. The bill has been O. K'd and sent in and will be paid shortly. Please accept my thanks for material sent gratis. O. M. MORRIS,
Dept. of Horticulture,

Oklahoma Agricultural and Mechanical College, Stillwater.

The shipment of plants ordered of you came duly to hand and I must say I am thoroughly satisfied with them. It is a great pleasure to get such stock. W. M. LINSAY,
Linsay Floral Co., Birmingham, Ala.
March 17, 1905.

The Azaleas you shipped me at different times during the past winter I have found to be most satisfactory plants and always ready sellers, as were also your Araucaria Exceelsa. Am glad to know just where to look when in need of fancy stock. GEO. P. MERRIFIELD,
Merryvale Greenhouses, Helens, Ark.

Many thanks for the prompt delivery and for the fine stock. The plants were all right and very satisfactory. HOFFMEISTER FLORAL CO.,
Cincinnati, Ohio.

Mr. G. Aschmann has a very fine stock of Azaleas and other Easter plants. We can highly recommend Mr. Aschmann to our customers for fair and reliable business treatment. H. F. MITCHELL CO.,
1018 Market St., Philadelphia, Pa.

To save express charges, mention if plants are to be shipped with or without pots. Cash with order, please. No references. All goods must travel at purchaser's risk. Bell telephone, TIOge 3669A.

My place can be reached by trolley in twenty minutes from City Hall; take 13th or 8th st. Germantown Car.

HIGH GRADE SOUTHERN WILD SMILAX

AND FLORISTS' HARDY DECORATIVE SUPPLIES. PRICES RIGHT

Special facilities for handling large orders. Write, Wire or 'Phone
E. A. BEAVEN, Evergreen, Alabama

Mention the Florists' Exchange when writing

FANCY FERNS, ETC.

TRY OUR SPECIALTIES, FRESH FROM FOREST
Fancy Ferns \$1.00 per 1000
Green Galax 33 per 1000
Green Leucothoe 2.50 per 1000
Branzo Leucothoe 4.00 per 1000
Rhododendron Sprays 2.50 per 1000
All fresh stock. Ten years' experience. Cash with first order.

J. N. PRITCHARD, ELK PARK, N. C.
Mention the Florists' Exchange when writing.

FERNS

FANCY, \$1.50 per 1000. **DAGGER**, \$1.25 per 1000.
GALAX, brilliant bronze or green, 75c. per 1000, \$3.50 per case of 10,000.
Laurel Festooning, hand-made, full sizes, 4c., 5c. and 6c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle.
Southern Wild Smilax, \$5.50 per 50 lb. case.
Laurel Wreaths and Prince's Pine Wreaths
Made all sizes and prices.

Prince's Pine by the lb. and made into roping. Tell us your wants and we will name you prices.

MILLINGTON, MASS.
Telegraph Office: New Salem, Mass.
Mention the Florists' Exchange when writing.

GRAND PRIZE
Highest Award
WORLD'S FAIR
ST. LOUIS
WEBSTER'S INTERNATIONAL DICTIONARY
RECENTLY ENLARGED
WITH
25,000 New Words and Phrases
New Gazetteer of the World
New Biographical Dictionary
Edited by W. T. Harris, Ph.D., LL.D.,
United States Commissioner of Education.
2380 Quarto Pages. 5000 Illustrations.
Also Webster's Collegiate Dictionary
1116 Pages. 1400 Illustrations.
Regular Edition 7x10x2 1/2 inches, 3 bindings.
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FREE, "Dictionary Wrinkles," illustrated pamphlets.
G. & C. MERRIAM CO.
Publishers, Springfield, Mass.
GET THE BEST

Mention the Florists' Exchange when writing.
SCRANTON FLORIST SUPPLY COMPANY 201 North Seventh Ave.
SCRANTON, PA.
Importers and Manufacturers of **FRESH GALAX and LEUCOTHOE**
ALL FLORISTS' SUPPLIES SEND FOR CATALOGUE
Mention the Florists' Exchange when writing.

HARDY CUT DAGGER AND FANCY FERNS

\$1.50 per 1000.
WILD SMILAX, \$4.00 and \$7.00 per case.
GALAX, New crop. Green and bronze. \$1.00 per 1000.
Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters, Immortelle-Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.
HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618.
Mention the Florists' Exchange when writing.

Sphagnum Moss and Cedar Poles

Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.
H. R. AKERS, CHATSWORTH, N. J.
Mention the Florists' Exchange when writing.

JAPANESE MOSS

Packed in paper cartons. "Moss and nothing but Moss"; no sticks or dirt. Less than half the price of German Moss.

L. WERTHEIMBER & CO.,
Foreign & Domestic Specialties,
39 Barclay St., New York.
Mention the Florists' Exchange when writing.

SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$6.00; 25-lb case, \$3.25.
GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.
LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.
Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50. All Kinds of Florists' Supplies.
L. J. Kreshover, 112 West 27th Street, New York
Tel. 697 Madison Sq.
Mention the Florists' Exchange when writing.

EXTRA QUALITY
Moss for Easter
THE NEW JERSEY MOSS & PEAT CO.
Established 1890
Barnegat, N. J.
IRVING FREDMORE, Prop.
Wholesale and Retail Dealers in **MOSS and PEAT**
10,000 Bales On Hand for 1905

We trust you will take time to read this advertisement and be benefited by it. We have been in the Moss and Peat business for fifteen years, so in dealing with us you are sure of getting the benefit of our long experience in this line.
NATURAL GROWTH MOSS Bales of 5 barrels, \$2.25; bales of 10 barrels, \$4.25. This grade is for fine design work.
SELECTED STOCK MOSS Bales of 5 barrels, \$3.00; bales of 10 barrels, \$5.00. This grade is for very fine design work and special occasions. For Nursery Stock Moss please write us for prices. If cash accompanies order we will allow 6 per cent. off.
LEAF MOULD Fibrous and Rotted Peat, per 100 lb. sack: Lots of 1 to 5 sacks, \$1.00; 5 sacks, at 90 cts.; 10 sacks, at 80 cts.; 15 sacks, at 75 cts.; 20 sacks, at 70 cts.; and 25 sacks, at 65 cts.
GREEN CLUMP MOSS per sack, 1 to 5, \$1.50; 5 sacks, \$1.25; 10 sacks, \$1.12; and 20 sacks, \$1.00.
SILVER SAND Per barrel, 1 to 5, \$1.75; 5 barrels, \$1.50; 10 barrels, \$1.25; 20 barrels, \$1.12; 25 barrels, \$1.00.

NOTICE. Say you saw this advt. in THE FLORISTS' EXCHANGE when you send the cash and have your choice of these
SPECIAL OFFERS
Natural Growth, Selected
1-10 barrel bale for..... \$3.90 \$4.50
2-10 " " " " " " " 7.75 8.75
3-10 " " " " " " " 11.50 13.50
4-10 " " " " " " " 22.50 25.50
10-10 " " " " " " " 37.00 40.00
This offer will expire on June 1.
HONORABLE MENTION.
"Society of American Florists. This is to certify that Irving Fredmore is entitled to Honorable Mention for having clean and well packed Sphagnum Moss and Peat. Exhibited at Cleveland, Ohio, August 18-21, 1893. William Scott, Pres., Wm. J. Stewart, Secy."

The New Jersey Moss & Peat Co.
REFERENCES: Geo. M. Stumpff, Ohas. A. Darde, of New York; Joe. Weire' Sons, 324 Fulton St., Brooklyn.
Mention the Florists' Exchange when writing.

Chicago.

News Items.
E. E. Pieser, of Kennicott Bros. Company, is of the opinion that cut flower stock will be quite plentiful, if not in oversupply, for Easter trade.
Vaughan & Sperry had on exhibition Tuesday of this week a fine vase of a seedling rose from George Hoppe, Grand Rapids, Mich.; also some fine flowers of a white Chatenay. Owing to the ill-health of Mr. Hoppe he is trying to sell all the stock of both of these roses.

Manager Wilson, of Vaughan's green-houses, is of the opinion that Easter decorative plants will be short, as all growers will not be able to keep them back until that date.
W. N. Rudd will introduce Lady Margaret carnation to the trade in 1906 with another prominent grower. This carnation has every appearance of becoming a winner in its class.

P. J. Foley has returned from a visit to his extensive holding of timber and mining property in Montana.
Leonard Kill, of Peter Reinberg, reports that they will have a fine crop of Mme. Abel Chatenay from now until after Easter. They intend to increase their planting of this favorite rose, also of Uncle John, which at present is in fine condition.

ROBT. JOHNSTONE.
Indianapolis.

The Week's News.

The State Florists' Association will have a Spring exhibition at the State House horticultural rooms, Wednesday, April 5.
One day last week 17,000 Marie Louise violets were disposed of at a department store sale. As is customary at these sales, violets were sold at the florist's cost price.
Smilax and adiantum are very scarce in this section; all used is being shipped in.
John Bertermann and daughter Irma have left for Europe to be gone two months. This is Mr. Bertermann's first visit to his old home in twenty-nine years.
John Rieman is on the sick list.
Visitor: Mr. Rolker, New York.

"Standard for Quality"
**GALAX LEAVES, LEUCOTHOE SPRAYS
GREEN SHEET MOSS**
WM. C. SMITH, Marion, N. C.
Sold in New York by L. J. Kreshover; Philadelphia, S. S. Pennock; Buffalo, Wm. F. Kastner; Albany, H. L. Menand; Pittsburgh, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Rennie & Pino.
Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS
Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 1/2 in. pots in crate, \$1.88	120 7 in. pots in crate, \$4.20
1500 2 1/4 " " " " " 5.25	60 8 " " " " " 3.00
1500 2 1/2 " " " " " 6.00	48 9 1/2 in. pots in crate, \$5.60
1000 8 " " " " " 4.50	48 " " " " " 4.80
800 5 1/2 " " " " " 5.80	24 11 " " " " 5.50
600 4 " " " " " 4.50	24 12 " " " " 4.80
820 5 " " " " " 4.51	12 14 " " " " 4.80
144 6 " " " " " 3.18	6 16 " " " " 4.50

Seed pans, same price as pots. Send for price list of cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, Agts. 31 Barclay St., N. Y. City
Mention the Florists' Exchange when writing.

USE KRICK'S FLORISTS' Immortelle Letters, Inscriptions, &c.

Highest Awards Wherever Exhibited

These Letters and Designs are made of the best Immortelles, wired on wooden frames, having holes drilled in them to insert tooth-picks by which they are fastened in the design. Give them a trial. You will find these letters to be superior to any in the market.

1 1/4-inch Letters and Figures.....	per 100, \$2.50
2-inch Letters and Figures.....	" 2.50
2 1/4-inch Letters.....	" 2.50

Add 10c. per 100 on 2 and 2 1/4-in. Letters if by mail
W. C. KRICK, 1161-66
Green Ave. Brooklyn, N. Y.
Mention the Florists' Exchange when writing.

BARGAINS

Primula Obconica Grandiflora, 10 to 20 buds, strong, 5 in., \$1.50 per doz.; Double Geraniums, in bud, for Easter, 3 in., equal to 4 in., \$5.00 per 100; Petunia, Fringed, Dreer's; Verbenas, Mammoth, separate and mixed; Heliotrope, Hardy Chrysanthemums, all strong, 2 to 2 1/2 in., \$1.75 per 100; Begonia Verdon, separate and mixed; also Jerusalem Cherries, ready to pot, \$1.25 per 100; Ageratum, blue, 50c. per 100; Lobelia, Salvia Splendens and Bonfire, strong, 2 1/2 in., \$1.50 per 100; Dracena Indica, strong, 3, 4 and 5 in., \$3.00, \$5.00 and \$12.00 per 100. Cash. 200,000 Bedding Plants, all the leading stock, ready April to June. Finest plants in the country. Place your orders with me and save money and disappointment.
WM. S. HERZOO, Morris Plains, N. J.
Mention the Florists' Exchange when writing.

GREAT BARGAINS

50,000 Pansy Plants, from cold frames; good, stocky little fellows; no better strain of pansies in the country. In 500 lots, \$1.50; in 1000 lots, \$2.25; in 5000 lots, \$10.00. Cash please.
Morel Bros., 624 E. Market St., Scranton, Pa.
Mention the Florists' Exchange when writing.

PANSIES

Royal Exhibition and Trimmered, strong plants transplanted last Fall in cold frames, in bud and blo., \$1.00 per 100.
Forget-me-nots and Daisies, esme price.
Aparagus Plumosa, 3 in. strong, \$5.00 per 100; 2 1/2 in., \$2.50 per 100; Sprengerl, 2 1/2 in., \$2.00 per 100.
J. S. BLOOM, Riegelsville, Pa.
Mention the Florists' Exchange when writing.

PANSY PLANTS

From our well-known strain. Large clumps, in bloom, \$1.50 per 100; \$12.00 per 1000. Large transplanted plants, \$4.00 per 1000. Good sized plants, \$2.50 per 1000.
DAISIES (Bellis), red and white, \$2.00 per 1000.
J. C. SCHMIDT CO., BRISTOL, PA.
Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN.
Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order.
E. B. JENNINGS, Lark Box Southport, Conn. 254.
Grower of the Finest Pansies.
Mention the Florists' Exchange when writing.

Of my largest flowering mixture of Show Varieties, unsurpassed quality, good size, stocky plants, out of frames, \$3.00 per 1000; 500 at 1000 rate.

BELLIS (DAISIES)

Largest double red and white, fine plants, \$3 per 1000
GUSTAV PITZONKA, Bristol, Pa.
Mention the Florists' Exchange when writing.

PANSIES—200,000

Fine, large, transplanted plants, prize strain of the famous large flowering Bognots, Cassiers, Older and Trimmered. Stocky plants, from cold frame, 50cts. per 100, by mail; \$3.00 per 1,000, by express.
Extra large plants, coming in bud, \$1.00 per 100.
Verbenas, Mammoth, R. C., 80c. per 100, \$5.00 per 1000; Stock, Double White, for Easter, \$1.00 per 100, \$8.00 per 1000; Daisies, Double White, 75c. per 100, \$5.00 per 1000; Feverfew, Double White, \$1.00 per 100, \$8.00 per 1000; Salvia, Splendens, \$1.00 per 100; Lobelia, Dwarf Blue, \$1.00 per 100; Ageratum, Dwarf Blue, 60c. per 100. Roses, Clothilde Supper 4 in., in bud and bloom, \$12. per 100.

HILL TOP GREENHOUSES 15-15 Gray Ave., Ullens, N. Y.
Mention the Florists' Exchange when writing.

100 000
PANSIES
SUPERB STRAIN READY NOW
Fine, large Fall transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you ever handled.
\$1.25 per 100; \$10.00 per 1000
Cash with order
LEONARD COUSINS, JR.
Concord Junction, Mass.
Mention the Florists' Exchange when writing.

J. K. ALLEN
 Wholesale Commission Dealer in Cut Flowers
 Telephone, 106 W. 28 St., NEW YORK 8 A. M.
 Consignments Solicited. Prompt Payments.
 Mention the Florists' Exchange when writing.

C. BONNET G. H. BLAKE
BONNET & BLAKE
 Wholesale Florists
 26 Boerum Place, BROOKLYN, N. Y.
 Telephone 4038 Main.
 Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
 Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE
 Sixth Ave. and 26th St.
 Coogan Building NEW YORK
 Open every Morning at Six o'clock for the Sale of Cut Flowers
 Wall Space for advertising purposes to Rent
J. DONALDSON, Secretary
 Mention the Florists' Exchange when writing.

JOSEPH S. FENRICH
 Wholesale Florist
 Consignments Solicited
 48 West 30th Street, New York City
 Telephone No. 325 Madison Square.

FORD BROS.
 Wholesale Florists
 48 WEST 28th ST., NEW YORK
 Telephone, 3870-3871 Madison Square

GROWERS, ATTENTION!
 Always ready to receive Fine Stock
WILLIAM H. GUNTHER
 30 West 29th Street
 Phone, 551 MADISON SQ. NEW YORK
 Violets, Roses, Carnations, Orchids
 ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION
"VICTORY"
 To be disseminated 1906. Also a complete line of choicest flowers.
ALEX. J. GUTTMAN, Wholesale Florist
 52 West 29th Street, New York
 Telephone, 1684-1685 Madison Square

JAMES A. HAMMOND
 Commission Dealer in
CUT FLOWERS
 Consignments Solicited
 113 W. 30th St., New York
 Telephone, 854 Madison Square

HICKS & CRAWBUCK
 Wholesale Florists
 And Dealers in FLORISTS' SUPPLIES
 108 Livingston Street
 Phone, 3660-3661 Main BROOKLYN, N. Y.

JULIUS LANG
 Wholesale Florist
 53 WEST 30th STREET
 NEW YORK
 Consignments Solicited. Telephone, 280 Madison Sq.

JAMES McMANUS Telephone 759
 Madison Square
50 W. 30th St., New York
 Beauties, Meteors, Brides and Bridesmaids are the leaders.
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & HUGHES
 Wholesale Florists
 55 and 57 West 26th Street, NEW YORK
 SPECIALTIES—Violets, Carnations and Roses
 Shipping orders receive prompt attention. Consignments Solicited.
 Telephone: 8864 Madison Square

FRANK H. TRAENDLY CHARLES SCHENCK
TRAENDLY & SCHENCK
 Wholesale Florists
 38 WEST 28th STREET, NEW YORK
 AND CUT FLOWER EXCHANGE
 Telephones: 798 and 799 MADISON SQUARE
 CONSIGNMENTS SOLICITED
 Mention the Florists' Exchange when writing.

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 CONSIGNMENTS SOLICITED
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 TELEPHONE: 8933 MADISON SQUARE
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JOHN YOUNG
 Wholesale Florist
 51 W. 28th St., NEW YORK
 TELEPHONE: 1905 MADISON SQUARE
 Mention the Florists' Exchange when writing.

YOUNG & NUGENT
 WHOLESALE FLORISTS
 42 WEST 28th STREET, NEW YORK
CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable Novelties. We employ competent florists in our packing department, and owing to our long experience in shipping we guarantee out-of-town customers that they will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. GHORMLEY
 WHOLESALE COMMISSION FLORIST
 Receiver and Shipper of all varieties of Cut Flowers
 Telephones: { 2200 Madison Square
 { 2201 Madison Square
 57 West 28th Street, NEW YORK

Wholesale Prices of Cut Flowers, New York, March 31, 1905.
 Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	12.00 to 15.00	In'r grades, all colors.....	.75 to 1.00
	" extra	8.00 to 10.00	White.....	1.00 to 1.50
	No. 1	6.00 to 8.00	Pink.....	1.00 to 1.50
	No. 2	3.00 to 4.00	Red.....	1.00 to 1.50
	No. 3	1.00 to 2.00	Yel. & Var.	1.00 to 1.50
	Bride, 'Matd, fancy—apc'	5.00 to 6.00	White.....	1.50 to 2.00
	extra.....	2.00 to 3.00	Pink.....	1.50 to 2.00
	No. 1	1.00 to 2.00	Red.....	1.50 to 2.00
	No. 2 .....	.75 to 1.00	Yel. & Var.	1.50 to 2.00
	Golden Gate.....	1.00 to 6.00	NOVELTIES	2.00 to 3.00
	Liberty.....	3.00 to 20.00	LILY OF THE VALLEY	1.00 to 2.00
	Meteor.....	1.00 to 5.00	MIGNONETTE, ordinary.....	1.00 to 2.00
	Mme. Abel Chateaux.....	1.00 to 6.00	" fancy White.....	4.00 to 6.00
	ADIANTHUM.....	.50 to 1.50	" Ordinary Yellow.....	1.00 to 1.50
	CROWANUM.....	.50 to 1.50	" Double Yellow.....	.35 to 2.00
	ASPARAGUS	25.00 to 50.00	PANSIES, per dozen bunches... .	1.00 to 1.50
	" Sprenger, bunches	15.00 to 35.00	ROMAN HYACINTHS.....	.35 to .50
	CALLAS.....	4.00 to 6.00	SMILAX.....	10.00 to 15.00
	CATTLEYS.....	50.00 to 60.00	STOCKS, per bunch .....	.10 to .25
	CYPRIPEDIUMS.....	6.00 to 10.00	SWEET PEAS.....	.50 to .75
	DAISIES.....	.50 to 1.50	TULIPS.....	1.00 to 2.00
	FREESIAs, per bunch .....	.10 to .25	VIOLETS.....	.15 to .20
	LILAC, per bunch .....	.50 to .60	" specials.....	.20 to .40
	LILIES.....	3.00 to 8.00		

WALTER F. SHERIDAN
 Wholesale Florist
 Telephone, 902 Madison Square
 39 WEST 28TH ST., NEW YORK
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
 American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
 Telephone, 1998 Madison Square
JOHN I. RAYNOR, 49 West 28th St., NEW YORK

EDW. C. HORAN
 Receiving Daily Fine PRES. CARNOT KAISERINS METEORS BEAUTIES Etc.
 55 West 28th Street
 Telephone, 421 Madison Square
NEW YORK
 CUT FLOWERS AT WHOLESALE
 Mention the Florists' Exchange when writing.

Pittsburg.
The Week's News.
 The late C. T. Siebert's new store in the East End, one of the finest in the city, was opened up last week. Mr. Ziegers, the manager in charge, has worked hard lately, and the arrangements and decorations show that he understands his business. The store-room is located on a very prominent corner and should do a good business. The conservatory connected with the store is filled with choice blooming and decorative plants which show up well through the plate-glass sides fronting the street. The store is artistically decorated; a nice stairway leads to the second floor, where baskets and other supplies are shown. The whole establishment is complete and worthy of a visit.
 John Bader and Mr. Koerbel, of Jeanette, Pa., spent a few days East looking up stock for the Easter holidays.
 The April meeting of the Florists' Club takes place Tuesday, the 4th. Easter flowers, plants and novelties is the subject for discussion, and a good exhibit will be made. At our last meeting the question box was introduced, and quite a lot of queries were taken from it, which will be answered at this meeting by various members to whom they were assigned. Those who are fond of howling, and intend to join a club which is being formed, should be on hand, so that a start can be made in practice games.
 The Easter flower show in the Schenley Park conservatories opens up next week; from present indications it will be one of the finest ever seen.
 Visitors during the week were: E. Reid and S. S. Skidelsky, of Philadelphia.
 E. C. REINEMAN.

MILWAUKEE, WIS.—Joseph E. Pollworth will be married April 3, to Miss Alma G. Yahr. The prospective groom is the secretary and treasurer of the C. C. Pollworth Company, and the bride is the daughter of F. G. Yahr, president of the Yahr & Lange Drug Company. Miss Yahr is well known in German society circles in this city.

BOWLING.
NEW YORK.—On Friday evening, March 24, the final game between New York and Madison was played in Newark, N. J., and resulted in a victory for Madison.
 The following scores were made by the members on Monday evening, March 27:
 J. Fenrich 166 164 188
 B. Hoffmeyer 116 156 123
 J. A. Shaw 138 157 118
 F. C. Holt 144 185 144
 A. J. Guttman 121 124 146
 J. Pepper 109 107 167
 J. A. Manda 188 164 137
 W. H. Siebrecht 170 152 153

All Choice Cut Flowers in Season
ALFRED H. LANGJAHR
 55 West 28th St., New York
 Telephone 3924 Madison Square.
 ESTABLISHED 1891
 BUY FROM SHIP TO ME
 TRY
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A. L. YOUNG & CO.
 WHOLESALE FLORISTS
 54 West 28th Street, New York
 Receivers and Shippers of
CUT FLOWERS.
 Consignments solicited. Prompt settlements

MOORE, HENTZ & NASH
 WHOLESALE FLORISTS
 55 West 26th St., New York
 Telephone Call 756 Madison Sq.
 Mention the Florists' Exchange when writing.

The Florists' Exchange

Let us know your wants in Plants and Cut Flowers for Easter. We can fill them.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

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R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses. Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN 7.30 A. M. to 8.00 P. M.

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FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

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PLANTS FOR EASTER

THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A. M. to 8 P. M. 1217 Arch St., Philadelphia, Pa.

WRITE FOR LIST AND PRICES

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SAMUEL S. PENNOCK

THE Wholesale Florist of Philadelphia

Easter Plants

LIST OF PRICES ON APPLICATION

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SHEEP MANURE

Pulverized. Free from all Adulteration In Bags, \$18.00 per Ton

Special price on car load lots in bulk

ROBERT SIMPSON, Clifton, N. J.

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National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 656 John. HARRIS H. HAYDEN (Late Manager of the Nepera Chemical Company), President EDWARD MOK. WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer

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Florists!

You can make money handling

Boyd's FOUNTAIN FLOWER STANDS

Big discounts. For particulars address

ECLIPSE NOVELTY WORKS

PULASKI, PA.

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Prepared Palm Leaves

Ready for immediate use, for making Decorative Palms. 100 1000

14-inch..... \$2.00 \$18.00

16-inch..... 2.35 21.00

Terms, F. O. B. New York, sight draft attached to bill of lading. These are my only terms, as this is only a consignment. I have about 20,000 of each size.

I. KONIGSBERG

Commission Merchant, 206 Broadway, N. Y.



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MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000. DAGGER FERNS, \$1.50 per 1000.

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Latest improved. Moistens the earth around the outer part first. Aerate the soil and promotes a strong and vigorous growth of plants. Patented in the United States and Canada. Send for circulars to

J. K. ANDREWS, Patentee

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This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 100 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A." Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION

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Syracuse, N. Y.

News Items.

Victor Warendorff, of New York, a member of the firm of Warendorff Bros., has been a guest at the Yates Hotel the past few days. Mr. Warendorff has been conducting negotiations for the lease of a store in the center of this city with the view of establishing a branch here.

Bard & Davis are still showing fine stock. Their Lady Bountiful carnations have given a steady supply of first-grade blooms all the season, and will still continue for some time yet, to judge by their splendid appearance. Mr. Bard considers this variety without a peer in point of quality and productiveness. The firm is very much elated over its success the past Winter and the increasing demand for cut flowers is such that the firm contemplates the erection of two more houses, 100 x 18 feet, to be devoted to the growing of roses, in which both members of the concern excel.

L. E. Marquisee is busy making shipments of the leading varieties of carnations in rooted cuttings and pot plants to growers in England, some of whom bought heavily last year. He considers Lady Bountiful a wonder, and is propagating a large stock of this variety. Many of the new varieties of carnations will be tried here the coming season. Fiancee will be grown extensively, though at present a large proportion of the cuttings received have gone off with stem rot in spite of the utmost care. A number of promising seedlings will be tested for another year; while this year's sowing, in thousands, are picked out preliminary to planting in the field. The foreman, Henry Bellamy, has been very successful the past Winter in fertilizing, and expects some very good results from a number of the crossings made. Chrysanthemums, too, will be grown extensively the coming season.

J. B. B.

Rome, N. Y.

Mr. Byam has everything looking spick and span. He has surely one of the best growers out; the gentleman has only been with him since late in the Fall, but everything shows up well. I noticed here, without any exception, the best Enchantress this Winter. His Mrs. Lawson are also good. Rambler roses will be about right for Easter. He has not had very good luck with lilies. Roses were fine. Mr. Byam intends to build two large houses this season.

John Humphrey's place is looking fine, as it always does. C. B. Humphrey is in California, but intends to return in the Spring or early Summer and close out his business, going to California to stay permanently on account of his health. I noticed here a fine lot of lilies in flower; the stock to come is also looking very well.

QUIZ.



REED & KELLER

122 West 25th St., New York

RUSTIC WORK

ALL KINDS

Tables, Chairs, Settees, Window Boxes, Tree Stumps, Stump Tubs, Bird Houses, Pedestals, Rustic Fence, Etc., Etc. Superior Workmanship.

Rustic Hanging Baskets

Price, each.....	Size.. 8	9	10	11	12	13	14
	\$0.50	\$0.65	\$0.80	\$0.90	\$1.10	\$1.25	\$1.50
" per doz.....	5.50	6.75	8.75	9.75	11.35	13.00	17.00

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NOVELTIES CONSTANTLY ON HAND

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April 1, 1905

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J. B. DEAMUD Wholesale Cut Flowers Successor to Illinois Cut Flower Co.

A DAILY CUT FROM 40 GROWERS We can and will fill your Cut Flower wants to advantage.

DUMONT & CO. Wholesale Florists Carnations a Specialty

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VAUGHAN & SPERRY Wholesale Florists All Varieties of Cut Flowers in Season

WM. J. MOORE Wholesale Florist 1235-37 FILBERT STREET

WM. F. KASTING Wholesale Commission Florist ALSO DEALER IN FLORISTS' SUPPLIES

CHARLES W. McKELLAR Wholesale Commission Florist And Dealer in all Florists' Supplies

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J. B. MURDOCH & CO. Wholesale Florists FLORISTS' SUPPLIES

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, St. Louis.

Worcester Conservatories Wholesale Growers of CUT FLOWERS

Wired Toothpicks 10,000, \$1.50; 50,000, \$6.25

CUT FLOWER BOXES WEATHERPROOF. Corner Lock Style

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES C. C. Pollworth Co.

BOSTON, MASS. WELCH BROS. PROPRIETORS CITY HALL CUT FLOWER MARKET

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H. G. BERNING Wholesale Florist 1402 Pine Street, ST. LOUIS, MO.

HOLTON & HUNKEL CO. Wholesale Florists Florists' Supplies

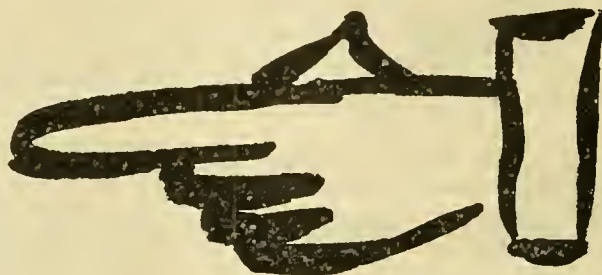
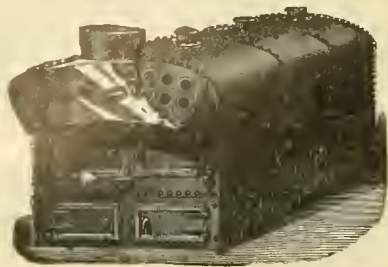
EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses and Spring Flowers

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



ORDER NOW

*Prices will be higher later on
Place your order now and save money.
Will ship Boiler when wanted; you do
not pay until Boiler is shipped
Write for information and prices*

Boston.

May Have a Joint Show.

Now that the American Rose Society has decided to come to Boston again next year, a plan is being talked over by prominent horticulturists to hold the convention of the American Carnation Society at the same time as the Rose Society's meeting and make one large exhibition of the whole affair. The rose men would have to meet a little earlier and the carnation men a little later, which, I presume, they would be willing to do, providing we guarantee the weather man to not have their usual blizzard. It would seem that the plan could be worked out very satisfactorily and Boston would have the greatest fête ever.

News Items.

Thos. Galvin exhibited some of the prize-winning roses in his Tremont street store on Monday.

Robert Miller, well known as a rose grower in this section, has leased the E. A. Lamprey place at East Brookfield for a term of years.

Carl Jurgens is sending in some fine iris to Welch Bros.

MacMulkin is handling large quantities of yellow marguerites, of which he makes a speciality.

Killarney is one of the most popular roses at Doyle's.

J. W. DUNCAN.

Newport, R. I.

Trade Notes.

Our florists have had busy times and the seedsmen all they could do and the gardeners have had their hands full getting everything in readiness for the coming season. Plowing is commencing and already a few potatoes and sweet peas are in the ground. The weather is warmer and very pleasant. The trustees of the Island Cemetery have had their annual meeting and report the affairs of the cemetery in a most successful condition.

Brandt has moved his retail location from the center of Thames street, where he has been so long, to the lower end of the street and is now to be found at No. 19.

Carl Jurgens, Jr., will be married April 10 to Miss Florida Hubbard, of Washington, D. C. The young couple will reside with Mr. and Mrs. Carl Jurgens on Pelham street.

Frederick M. Smythe, of Wadley & Smythe, has been here from New Rochelle, N. Y., for a few days.

Crocuses and tulips are showing to a considerable height in sunny places which are protected from the north winds. The frost is now pretty well out of the ground.

F. W.

CYPRESS
IS FAR MORE DURABLE THAN PINE
CYPRESS
SASH BARS
UP TO 32 FEET OR LONGER.
GREENHOUSE
AND OTHER BUILDING MATERIAL,
MEN FURNISHED TO SUPERINTEND
ERECTION WHEN DESIRED.
Send for our Circulars.
THE A. T. STEARNS LUMBER CO.,
NEPONSET, BOSTON, MASS.

Mention the Florists' Exchange when writing.

The Florists' Hail Association

of America has paid \$40 losses in 18 years amounting to over \$70,000. For particulars address

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The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation.

The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market.

The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

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SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

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Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

HASLAM LIME CO.

Manufacturers of ONLY OYSTER SHELL LIME
118 to 130 Cliff St. Scranton, Pa.

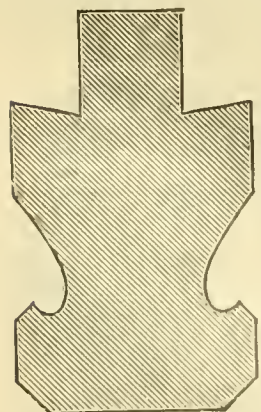
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TILE DRAINED LAND IS MORE PRODUCTIVE

Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Eneustic Side Walk Tile, etc. Write for what you want and prices. **JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.**

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GULF CYPRESS Greenhouse Material



Cut and Spliced
Ready for Erection

Hot Bed Sash

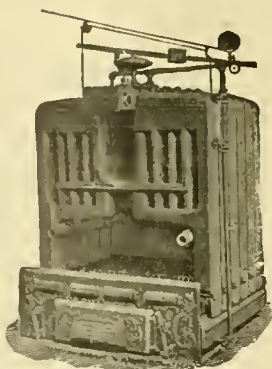
Pipe, Fittings,
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GREENHOUSE GLASS

We furnish everything
for Building

Heating Installed

Send for Prices and Catalogue



S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N. Y.

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COLUMBIA TUBS

Are for sale by all the leading Seedsmen this season. Be sure to specify **COLUMBIA TUBS** when you order if you want the best plant tub made. Manufactured by

INVALID APPLIANCE CO. 629-631 N. Halsted St. Chicago, Ill.

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STANDARD FLOWER POTS

THE WHILLDIN POTTERY COMPANY

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April 1, 1905

GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

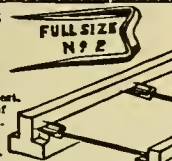
This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.
LOCKLAND, O.

Holds Glass Firmly
See the Point **PEERLESS**
FULL SIZE N.P.E.
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DEER,
114 Chestnut St., Phila., Pa.



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NICO=FUME

TOBACCO-PAPER INSECTICIDE BY FAR THE BEST.

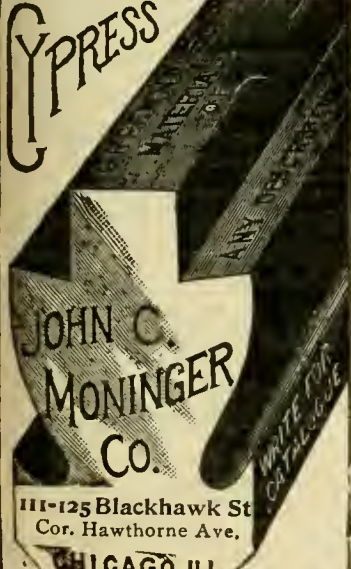
NICO=FUME SHEETS ARE READY FOR USE
NO FOLDING IS REQUIRED JUST HANG EACH SHEET FROM THE HOLE PUNCHED IN ONE END, THEN LIGHT LOWER END, BLOW OUT FLAME AND LET THE SHEET BURN.
No Lighting (Sheet hung from plant stick) No Smoking




FOR SALE BY SEEDSMEN
1 Sheet, 75c.; 144 Sheets, \$3.50;
238 Sheets, \$6.50 (only 2 1/2 c. each).
PACKED IN FRICTION-TOP TINS,
Preventing Loss by Evaporation.
Sold by Kentucky Tobacco Product Co., LOUISVILLE, KY.

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JOHN C. MONINGER CO.
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HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
10 Desbrosses St., New York
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CEMENT BENCHES
NIAGARA CEMENT & CONCRETE CO.
NORTH TONAWANDA, N. Y.

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MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St., NEW YORK



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"Entirely Satisfactory"
That's what prominent Florists say of the celebrated

FURMAN BOILERS



Particularly well adapted for
GREENHOUSE HEATING
Write us for Illustrated Catalogue and Special Florists' Prices. Address
THE HERENDEN MFG. CO.
Dept. F. GENEVA, N. Y.
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Buy "BURNHAM" Boilers



Send to-day to our New York Office

For our Catalogue Illustrating

ROUND "BURNHAM" BOILERS

and large sectional boilers. The former are adapted for Greenhouses of moderate size. Cast in one piece above base. No joints to leak. Work Economically, Easily, Efficiently. Save money by buying them.

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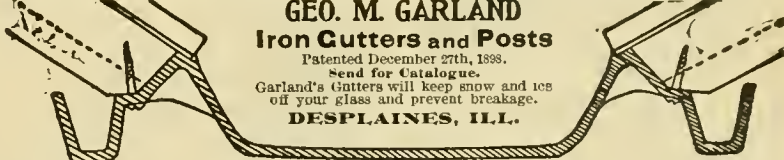


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EUREKA GREENHOUSES

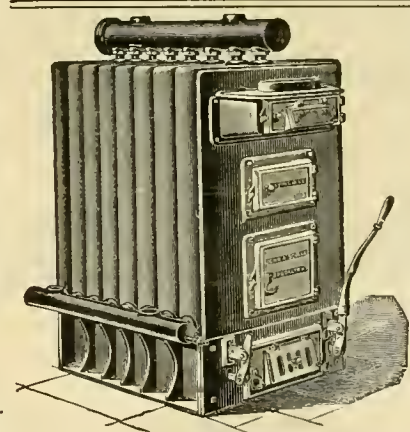
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Get the best
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.
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GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

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Scollay Invincible Boilers

FOR HOT WATER AND STEAM.
Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 1/2 c. per foot.
Horticultural building of every description.

JOHN A. SCOLLAY
72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.
Established 42 Years

Heating! Heating! Heating!

A FEW REASONS WHY I HAVE SO MANY COMMERCIAL HEATING CONTRACTS ON HAND

THE satisfactory results obtained in the past.
HE most competent greenhouse mechanics employed.
HE boilers I install are a guarantee of satisfaction and economy.
HE best figures on your work that can be secured.

AN OPPORTUNITY TO ESTIMATE ON YOUR HEATING OR REPAIR WORK WILL BE TO YOUR INTEREST

WM. H. LUTTON

West Side Ave. Station Tel. 174 J BERGEN JERSEY CITY, N. J.
Eastern Agent Furman and Kroschell Boilers

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KING CONSTRUCTION COMPANY

North Tonawanda, N. Y.,
and Toronto, Canada.

New Greenhouse Catalogue ready for
distribution. Send for it.

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**CASPER LIMBACH
GREENHOUSE GLASS**

A SPECIALTY

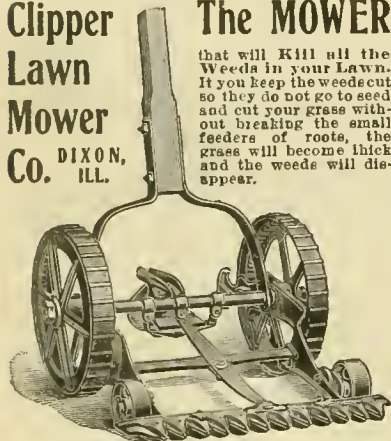
Window Glass. Painters' Supplies.

32 Washington Ave., Pittsburg, Pa.
31st Ward,
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Clipper
Lawn
Mower
Co. DIXON,
ILL.

The MOWER

that will kill all the
Weeds in your Lawn.
If you keep the weedcut
so they do not go to seed
and cut your grass with-
out breaking the small
feeders of roots, the
grass will become thick
and the weeds will dis-
appear.



The Clipper will do it. Ask your dealers
for them. If they have not got them, below is
the price: No. 1-12-in. Mower, \$5; No. 2-15-in.
Mower, \$7; No. 3-18-in. Mower, \$7; No. 4-21-in.
Mower, \$8. Seed draft, money order or reg. letter.

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WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS SPRENGERI
and **DECUMBENS**, 3 in. pots, 75c. per doz.,
\$5.00 per 100.
AMPELOPSIS VEITCHII, 3 in. pots, 75c. per
doz., \$5.00 per 100; 4 in., \$1.50 per doz., \$10.00
per 100.
CLEMATIS, large flowering variety, 2 years old,
5 in. pots, \$3.00 per doz.
DRAECNA INDIVISA, 3 in., 75c. per doz.,
\$5.00 per 100; 4 in. pots, \$2.00 per doz., 6 in. pots,
\$3.00 per doz.
GERANIUMS, scarlet, pink and white, 3 in.
pots, 60c. per doz., \$4.00 per 100.
HONEYSUCKLE (Hallesnae), 5 in. pots, \$1.50
per doz.; \$10.00 per 100.
IVY, hardy, large leaves, 3 in., 75c. per doz., \$5.00
per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
MOON VINES, 3 in. pots, 75c. per doz., \$5.00
per 100.
YINCAES, Variegated, 3 in., 75c. per doz., \$5.00 per
100; 4 in. pots, \$1.50 per doz., \$10.00 per 100.
MYOSOTIS, clumps from open ground, 60c. per
doz.; \$4.00 per 100.
PANSIES, separate colors, yellow, white and
blue, \$2.00 per 100.
POINSETTIAS, stock plants, dormant, 5 in.
pots, \$1.50 per doz., \$10.00 per 100.
Plants from 2 1/2 in. pots, \$3.00 per 100.
Asparagus Plumosus, Comorensis, Sprengeri
and Decumbens, Alyseum, Little Gem, Antir-
rhinum, white; Abutilon Savitzii, Ageratum, blue
and white; Coleus, Verschaffeltii, Golden Buzzer
and fancy varieties, Cobaea Scandens, Clematis
Paniculata, Dracena Indivisa, Fuchsias, double
and single; Feverfew, Little Gem, Geranium Mme.
Sallerol (strong) and Mrs. Parker; Lobelia, dwarf
blue; Nasturtium, dwarf; Petunias, double white;
Phlox Drummondii, dwarf; Salvia, Sausseviere
Zeylanica, Swainsona alba, Verbena, mammoth
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CIKY-SANTHEMUMS, best standard varieties,
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CARNATIONS, pot grown, per 100. Encha-
trees, \$4.00; Boston Market, \$2.50; Red Sport,
\$6.00; Flamingo, \$6.00; The Queen, \$3.00; Mrs.
Fisher, \$3.00. Strong rooted cuttings from soil,
per 100. Flors Hill, Queen Louise, Scott, Joost,
Estelle, Crocker, \$1.50; Crane, \$2.00; Enchantress,
\$3.00.
CLEMATIS PANICULATA, 4 in., \$1.50 per
doz.; \$10.00 per 100.

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Evans Improved Challenge

Roller bearing, self-oiling de-
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First-class Low-priced Cypress Greenhouses

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

Vol. XIX. No. 14

NEW YORK, APRIL 8, 1905

One Dollar Per Year

CARNATIONS STRONG ROOTED CUTTINGS

READY FOR IMMEDIATE DELIVERY except where noted

WE OFFER FIRST-CLASS STOCK OF THE FINEST VARIETIES

VARIEGATED LAWSON This variety, which we are introducing this season we are sure will prove to be the very best variegated sort. Pure Ivory white, with delicate carmine pencilings. Mr. W. N. Craig, an authority on everything pertaining to horticulture, says that he knows that this variety will out-bloom the favorite Mrs. M. A. Patten three to one. It has the Lawson habit and stem, and is bound to give satisfaction. \$12.00 per 100; \$100.00 per 1000.

RED LAWSON A bright red sport of Lawson that is bound to be popular, and will be grown where Lawson is popular. \$10.00 per 100; \$75.00 per 1000.

CARDINAL Bright cardinal, or crimson-scarlet. Won first prize for best 100 scarlet, first prize for best 50 carnations, any color, first prize for best 50 scarlet seedlings, Chicago. \$12.00 per 100; \$100.00 per 1000.

FIANCEE (April delivery.) The Queen of pink carnations; in a class by itself. Magnificent flowers, strictly fancy in every respect. \$12.00 per 100; \$100.00 per 1000.

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WHITE LAWSON We consider this variety, which we introduced last season, the most profitable white carnation ever sent out. We think it will outbloom any other white two to one. It has given great satisfaction. When the flowers are left on the plants until fully developed they are much larger than Mrs. Thos. W. Lawson. We believe this will occupy among white carnations the same place that Mrs. Thos. W. Lawson does among pink carnations. Remember that we are headquarters for it. Splendid stock, ready for immediate delivery. \$7.00 per 100; \$60.00 per 1000.

DAHEIM Dark crimson; grand stiff stem; Calyx never bursts. Free and abundant bloomer, developing very quickly. We consider this the best all-round crimson carnation. \$6.00 per 100; \$50.00 per 1000.

MRS. M. A. PATTEN This grand variegated carnation has given splendid satisfaction. \$6.00 per 100; \$50.00 per 1000.

ENCHANTRESS Freest blooming, bringing highest market prices in great demand. \$4.00 per 100; \$30.00 per 1000.

MRS. THOS. W. LAWSON \$3.00 per 100; \$20.00 per 1000.

PROSPERITY A magnificent fancy carnation. \$3.00 per 100; \$20.00 per 1000.

We are now prepared to book orders for 1906 for

THE COMING SCARLET CARNATION

VICTORY

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Selected Large Two-Year-Old Bushes Low-Budded and Own Roots Varieties marked (*) we can supply upon their own roots, or budded.

OUR ROSES ARE MADE UP IN BUNDLES OF FIVE EACH

HYBRID PERPETUAL

Abel Carriere	Duke of Teck	Mme. Charles Wood	Alfred Colomb
*Earl of Dufferin	Margaret Dickson	*Anna de Diesbach	Eugene Verdier
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Ball of Snow	*Gloire de Margottin	Mme. Gabriel Luizet	Baroness Rothschild
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Paeonia	Cheshunt Hybrid	Geant des Batailles	*Paul Neyron
*Clio	John Hopper	Peretan Yellow	Duke of Connaught
*La France	*Prince Camille de Rohan	Duke of Edinburgh	Mabel Morrison
*Ulrich Brunner			

Prices of above: Dormant budded plants, purchaser's selection, 65c. per bundle of 5; \$11.00 per 100; \$100.00 per 1000. Varieties on own roots, 75c. for 5; \$13.00 for 100. Not less than 5 of any one variety sold.

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	Per 5	Per 100		Per 5	Per 100
*Clothilde Soupert.....	\$0 75	\$13 00	*Maman Cochet. Pink.....	\$0 65	\$11 00
Caroline Testout. Rose.....	75	13 00	*Maman Cochet. White.....	65	11 00
Gloire de Dijon.....	75	13 00	Sou. de Malmaison.....	90	15 00
*Gloire Lyonnaise.....	90	15 00	*President Carnot.....	90	15 00
*Hermosa.....	75	13 00	*Reine Marie Henriette.....	75	13 00
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First size, 2-year-old, 4 to 6 ft. long, with many branches, per 5, \$1.00; per 100, \$15.00. Second size, 2 1/2 to 4 ft. long, per 5, 75 cents; per 100, \$12.00. Third size, 2 to 2 1/2 ft., 1 year old, per 5, 40 cents; per 100, \$6.50. *White Rambler (Thalia). *Pink Rambler (Euphroeyne). *Yellow Rambler (Aglais). Extra strong; 2-year-old plants, 75 cents per 5; \$12.00 per 100.

STANDARD or TREE ROSES Grafted on Rugosa Stock

Large, well-grown, selected plants in the following varieties, all true to name:

Paeonia	Mrs. John Laing	Gen. Jacqueminot	Duke of Teck
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75c. each; \$3.00 per 5; \$5.00 per 10; \$40.00 per 100.



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Kaiserin, \$15.00 per 100
Carnot, \$120.00 per 1000
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Kaiserin, 2 1/4 in. pots \$4.00 per 100
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AMERICAN BEAUTY, 2 1/4 in., \$6.00 per 100; \$50.00 per 1000

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SPECIAL OFFER

Having been very favorably impressed with this Carnation, we purchased a large stock of it, securing early delivery, with the intention of growing it for the New York Market, but we have received such a large number of orders for our new Carnation **ROBERT CRAIG** that it has become necessary for us to devote the space intended for the Cardinal to stock plants of Robert Craig for propagating purposes. Therefore, our selected stock, consisting of 3,000 plants from 2-inch pots, is now for sale. It is in especially fine condition and we are certain will prove a very profitable investment for any florist who needs a first-class fancy scarlet.

PRICES

25 Plants, - - -	\$3.00	100 Plants, - - -	\$12.00
50 Plants, - - -	6.00	250 Plants, - - -	25.00
1000 Plants or more, \$100.00 per 1000			

Remember that you can secure a Discount of 5 per cent. from the above prices by sending Cash with the order.

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Asparagus Plumosus Nanus

Per 1000 seeds, \$5.00.

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it is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Grow's Hybrids and other sorts, the best obtainable. Write for Catalogue. **ARTHUR GOWEE**, Gladiolus Specialist, Meadowvale Farm, Berlin, New York

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Plumosus Nanus.....	Per 100	Per 1000
" Robustus.....	55c.	\$3.50
" Sprengeri.....	85c.	7.50
" Sprengeri.....	15c.	1.00

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No. 2.....	9.00 "
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Madame Gabriel Luizet, Magna Charta, Baroness Rothschild, Genl. Jacqueminot, Ulrich Brunner, Mrs. John Laing, Paul Neyron, Mabel Morrison, Perle des Blanchés, Fisher Holmes, La France, Celine Forestier, Prince Camille de Rohan, Marshall Wilder, Caroline Testont. Each, 16c.; doz., \$1.60; per 100, \$11.00.
American Beauty, Kaiserin Augusta Victoria, Soleil d'Or, Grues an Teplitz, Baroness Rothschild, Margaret Dickson. Each, 25c.; doz., \$2.50; per 100, \$18.00. Frau Karl Druschki, best white, \$3.00 per doz.; \$25.00 per 100.

Crimson Rambler
Strong, 3 to 4 feet.
5 for 75c.; 10 for \$1.25; 25 for \$2.50; 100 for \$9.00.
Extra, 4 to 5 feet.
5 for \$1.00; 10 for \$1.75; 100 for \$15.00

Standard Tree Roses
50c. each; 5 for \$2.00; 25 to 100 at 35c. each.

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BEGONIA
Tuberous, Single
1 1/4 in., separate colors, Red, Pink, Doz. 100 \$0.40 \$2.50
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6-7..... \$0.35 \$2.00 \$16.00
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" Nankeen.....	.35	2.25	" Orange.....	.65	5.1
" Pink.....	.35	2.25	" Rose.....	.65	5.1
" Rose.....	.35	2.25	" Dark Rose.....	.65	5.1
" Red.....	.35	2.25	" Dark Red.....	.65	5.1
" Dark Red.....	.35	2.25	" Red.....	.65	5.1
" Salmon.....	.35	2.25	" Salmon.....	.65	5.1
" Orange.....	.35	2.25	" Mixed.....	.60	4.1
" Mixed.....	.30	2.00			

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We are Now Booking Orders for

Lilium Harrisii

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Plumosus nanns, lath-house grown, \$1. per 1000. Sprengeri, 75c. per 1000.
SMILAX SEED, \$1.25 per lb.

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Shakespeare, large grade, Eugene Scribner sizes 1 and 2; No. 1900, 2, 3 and 4; Augusta sizes 2, 3 and 4; also small Augusta about 1/4 to 3/8 in., \$3.50; and 5-16 to 3/8 in. at \$5.00 per 1000. No. Augusta, fine blooming size at \$12.00 per 1000. No. of No. 1900, \$6.50 per 1000. Cash with order.
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DAHLIA ROOTS

1000 Wm. Pierce (yellow), 1000 John Bragg (dark red velvet), 2000 Nymphs (pink with white centers), \$3.00 per 100; \$25.00 per 1000. 3,000 Mixed colors, all double, \$2.50 per 100; \$20.00 per 1000.
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Seedsman,
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Summer Flowering BULBS

Ismene Grandiflora.....	100	1000
Madelra Vines.....	\$6.00	\$50.00
Spotted Callas.....	1.00	8.00
Tritoma Pfitzeri.....	3.00	25.00
Gладиол, mixed, 1 1/4 in. diam.....	7.00	60.00
	.60	5.00

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Eight per cent. discount for cash.
Special price on large quantities.
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Price, \$3.50
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GLADIOLUS

THIS IS ABSOLUTELY THE FINEST STRAIN EXTANT.

FLORACROFT PRIZE MIXTURE, 1st size, \$1.50 per 100; \$10.00 per 1000. 2d size, \$1.00 per 100; \$7.50 per 1000.

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SPLENDID ROOTS, WITH 2 TO 5 EYES.

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Our offer of JAPAN LILIES, CYCAS STEMS and FERN BALLS in last week's EXCHANGE.

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The White Amaryllis. Great for 12 100 1000 cut flowers. Try it. \$0.75 \$5.00 \$40.00

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Table listing Iris varieties and prices.

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1 1/2-3 ft. red, yellow, variegated each 40c. 4.00

JAPAN BAMBOO STAKES

Durable, indispensable to 100 1000 2000 stake your Lilies, Roses, Chrysanthemums, etc. 3x4 feet. 40 2.75 5.00 8 feet. 75 5.50 10.00

TUBEROSE PEARL

(Clearance price) 4x6 1/2 in., superior white, clean stock, 100, 85c.; 1000, \$8.75.

SEEDS, Etc.

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WRITE FOR PRICES WE ARE HEADQUARTERS FOR UNION SETS

SEED

Flower Seeds and Bulbs

WHOLESALE SEED GROWERS

Seeds for present requirements ready to ship. Contract orders for delivery after harvest 1906 are being hooked now. Beans, Peas and Garden Seeds. Write for Prices

CO. CHICAGO

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STOKESIA CYANEA

Now is the time to send us your order for plants or seeds. Remember that we grow more of this stock than all other dealers in the world and are prepared to fill your orders for them by the hundreds of thousands.

Don't let others make you believe that their high-priced pot-grown plants are better than old-grown plants. Our strong, healthy, young plants cannot be excelled. We recommend medium sized plants for best results. Small plants from seed bed, just the thing for lining out nursery for future sales. \$1.00 per 100; \$3.00 per 1000. Medium sized, field-grown, \$2.00 per 100; 7.00 per 1000. Extra heavy, field-grown, \$3.50 per 100; \$30.00 per 1000.

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The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an un-introduced seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 35 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co. WEST GROVE, PA. Mention the Florists' Exchange when writing.

SURPLUS

For list see issue, March 25, page 361

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J.

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Michell's Superior Branching Asters

Our selected strain of Semple's Late Asters is a money maker. Seed saved from the finest and largest double flowers, solid colors, with long stiff stems, which command top-notch prices. Try them with following colors:

Lavender, Pink, Purple, Red, White and Mixed Per Tr. Pkt., 30c.; per oz., \$1.00

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CANNAS

True, sound, selected roots, 2, 3 and more eyes, Allemania, Austria, Italia, P. Marquand, Robnsta, red leaf, \$2.00 per 100; \$15.00 per 1000. Mrs. Kate Gray, new, orchid-flowered, 6-7 in. across, scarlet overlaid with gold; Martha Washington, dwarf, finest pink; Black Beauty, etc.; \$3.00 per 100; \$25.00 per 1000.

DAHLIAS field-grown, leading kinds, for cut-flowers named whole roots, \$3.50 per 100; \$30.00 per 1000. Shellroad Greenhouses, Grange P. O., Balto., Md. Mention the Florists' Exchange when writing.

If you are uncertain regarding the quality of our Bulbs, write for good words others say for them.

HUBERT & CO.

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Dry roots, \$3.00 per 100; Started plants, \$5.00 per 100. Ready April 1st. Stock limited, speak quick.

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ROSES, X fine, 2 in. pots, \$30.00 per 1000. Maman Cochet, white and pink, Clothilde Soupert

ROSES, following varieties, \$25.00 per 1000 Dorothy Perkins, Empress of China, Etoile de Lyon, Evergreen Gem, Gardenia, Golden Gate, Mme. F. Kruger. See wholesale list for other varieties.

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J.

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

CHARLESTON, S. C.—William McIntosh, seedsman and florist, expects to be out of the business in a short while.

HOLLAND CROPS.—Hyacinths, narcissus and tulips appear very strong and healthy. Last week we had two showers of hail, and some nights the fields were white with frost. But it seems the plants did not suffer, and if the fine soft weather will continue, our prospects will be favorable for next Summer. J. B.

LONG ISLAND SEED NOTES.—Contrary to all expectations, the retail trade not only recovered from the stagnation in February, but has gone far ahead of the season's trade for the last six years. At Floral Park all three establishments have been working nights, and are from one to two weeks behind in filling orders. J. L. Childs reports the best trade in years, both wholesale and retail, and to his satisfaction—it is along the lines that afford the best profits, viz., seeds and bulbs. The plant trade is good, particularly in good stock, to the growing of which he is giving particular attention. He is enthusiastic over his California investment, and intends growing on a large scale choice plants for the Eastern markets. The foreign demand for bulbs has been unprecedented—far in excess of supply.

J. Roscoe Fuller & Co. are very busy, more so than for years, and we hear the same reports from the V. H. Halllock & Son establishment.

The Cottage Gardens Co., Queens, have just received from Europe six carloads of choice evergreens and other nursery stock, a large proportion being choice specimen plants.

The seedsmen of New York have not had so good a season in years, the only complaint being they cannot keep up with the orders.

The Long Island Seed Company, Mattituck, say nothing, but are pushing business along all lines.

The spinach business is a surprise to every one. The trade is placing or-

LAWN GRASS SEED in Bulk and Packages

Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

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CRIMSON RAMBLER **OWN ROOTS.**
 3600 No. 1 1/4 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$16.00 per 100.

HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100; 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**
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RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand. See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.
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BURBANK'S PHENOMENAL BERRY TIPS \$2.00 Per Dozen \$10.00 Per 100
 Send for Price List, Illustration and Description to
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 Kennon Street SANTA CRUZ, CALIF.
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BEAUTIFUL GROUNDS
 An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

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NEW CROP NOW READY.
 Catalogues free on application.

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Sweet Corn
CROP, 1904
 New variety, unneaded, larger than Stowell's, sweeter; ears well in dry weather, four days later than Stowell's. 30 bus. at \$2.00 per bus. cash.

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Catalog Engravings and ILLUSTRATIONS
 that print EASILY. That's the kind we make—have been since '73.

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FISCHER'S GRAND FREESIA PURITY

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Buds no larger than dried wax beans of this grand Freesia make as large a flower as the large buds, only the stems are shorter. All growers should try some of this Queen of Freesia, for when "once grown always grown." Price for large buds, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y.
 Mention the Florists' Exchange when writing.

ders with the farmers on Long Island at 15c. per pound. This is for the Bloomsdale, and that because it was a short crop last year; and there is a demand for early delivery which the foreign market cannot supply.

The seed stocks on Long Island are now being set, and the prospect is not as favorable as appearances indicated at our last report. The cabbages have kept well where they were trenched on heavy and dry grounds. On low grounds, where the water stood in the trenches, they have suffered badly—more than half rotted. A strange condition is noticeable the present season, viz., the growers who did not get their plants started early last Autumn, have had by far the best success in their keeping, while those who put nearly full-sized heads in the trenches have lost heavily.

Scotch kale has kept better than usual, particularly where the plants were set early last Summer. The indications now are for a full average crop on the acreage set, which, unfortunately, was not large. The Siberian kale is also looking well.

Rutabaga promises a good yield, the roots having kept perfectly, and are already showing signs of active growth. Turnips, which are being grown on another section of the island, are looking fine; and if climatic conditions are favorable, there will be a good yield, as the stocks were never taken out in better condition.

European Notes.

With the open-air temperature in the sixties, and from nine to eleven hours of bright sunshine every day, our plants are making rapid progress where they are strong enough to respond to such stimulating conditions. Of course, there are the usual failures in plants that have the appearance of being sound; but as soon as an effort is required of them they go under. The full extent of this shrinkage will not be apparent for another three weeks. The foregoing remarks apply only to the northern half of Europe from the Atlantic to the Russian frontier.

In the south, especially in France, the ravages of the Winter are more clearly seen. Celery, kohlrabi, radishes, Winter varieties, beets and mangels are in great part destroyed; spinach is in nearly the same condition, and carrots, particularly red varieties, are very seriously diminished.

It is somewhat remarkable that while the general demand for seeds for Spring sowing continues good, the trade in peas is almost at a standstill. As a consequence, special surplus offers are flying round in all directions at prices that mean a very heavy loss to the holders, but no one cares to buy.

The same is true of potatoes, and what with Eldorado selling for 25 cents per pound, and Northern Star realizing only \$10 per ton, it is no wonder that some of last year's speculating lunatics feel pretty bad. It is refreshing to find such good old varieties as Puritan, Early Rose and Beauty of Hebron, all of which we owe to America, still in good demand and realizing remunerative prices. Of the newer introductions Ensign Bagley has already become the standard variety of the early white kidney section, alike for appearance, quality and crop. The Carman sorts are practically played out; the tubers were too large, although of extra good quality, but the worst fault was their liability to disease.

ROSES! CLEMATIS!

To close out our surplus on these items we are making low quotations on

Strong 2 Year Dormant Plants—Crimson Rambler, White Rambler, Pink Rambler, Yellow Rambler, Mme. G. Lulzet, Magna Charta, Frau Karl Drusehiki.

Strong 2 Years—Clematis Jackmanni, Henryii, Mme. E. Andre, Ramona, Ampelopsis Veitchii. Write for prices.

Bride, Perle, Cochet Pink and White, Golden Gate and many others, from 5 in. pots, at \$10.00 per 100.

W. & T. SMITH COMPANY, Geneva, N. Y.
 Mention the Florists' Exchange when writing.

The testimonial to Henry Eckford is now fairly launched, and is being warmly taken up. An address on vellum is settled upon, and any money received beyond that will be devoted to something that will act as a permanent testimony to Mr. Eckford. The fund will be a shilling one (25c.), and so far about £10 has been subscribed. Any sum can be sent and all will be acknowledged in shillings in the horticultural press. Many of our American friends will no doubt desire to contribute; will they kindly remit to the secretary, H. J. Wright, 32 Dault road, Wandsworth, London, S. W.

[We had already called the attention of our readers to this very excellent and appropriate movement. (See page 430, last week's issue)—Ed.]

Seedsmen and florists on the look out for a striking novelty should secure Van Tubergen's Carmine freesia. Visitors to the Haarlem show are loud in its praises; the mauve variety is described as a chaste and beautiful flower, but not a very effective color.

EUROPEAN SEEDS.

PAMPHLETS RECEIVED.

HENDERSON'S BEST METHODS OF GROWING VEGETABLES, Peter Henderson & Company, New York.—A useful and informative publication, including practical articles upon cold frames and hot beds, root crops for farm stock, how to make a lawn, condensed cultural instructions for flower seeds, fertilizing constituents consumed by crops, combating bugs, worms, insects, apparatus for applying insecticides and fungicides.

100,000 STRONG

One and two-year Palmetto Aparagus; 30 varieties of Strawberries; Ward Blackberry (send for descriptive circular) one of the most reliable for family or market; other small fruits. Peach and other fruit trees. Low Prices for First-Class Stock.

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PRODUCE IMMEDIATE RESULTS

Norway Maple.....	2 to 4	inches in diameter
Negundo Maple.....	2 to 2 1/2	" " "
Linden, American.....	2 1/2 to 4	" " "
" Argentea.....	1 1/2 to 3	" " "
" European.....	1 1/2 to 2 1/2	" " "
Maple, Silver.....	3 to 4	" " "
Poplar, Carolina.....	1 1/2 to 3	" " "
" Bolleana.....	1 1/2 to 2 1/2	" " "
" Lombardy.....	1 1/2 to 2 1/2	" " "

Picea Concolor, 3 to 4 feet, 3 times transplanted. Flowering Shrubs in large variety. California Privet, 2 years, 2 to 3 feet. Bushy; low prices. Address,

OAK PARK NURSERIES, Patchogue, L.I., N.Y.
M. F. TIGER, Proprietor.
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Nurserymen and Florists
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K. VAN BOURGONDIËN & SONS
 Wholesale Bulb Growers
HILLEGOM, HOLLAND
 Until May write to
K. H. VAN BOURGONDIËN
 Care Maltus & Ware,
 136 Water St., - - - New York
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Vegetable Plants

Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man the plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.

Write for price list.

J. E. HUTTON & SON
CONYNGHAM, PA.
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Eisele's Privel

NONE BETTER

2,000 2-year, strong clumps, \$25.00 per 100. \$0.10
 3-year, cut back, heavy, 2 1/2 to 3 1/2 feet at \$25.00
 per 1000. 50,000 2-years, cut back, heavy, 2 to
 2 1/2 feet at \$18.00 per 1000. 25,000 Golden Elder,
 3-year plants at \$60.00 per 1000. 30,000 Enony-
 mus, strong branched, 12 to 16 ins. high, \$60.00
 per 1000. 25,000 Box-Edging, 3 to 4 ins. at \$30.00
 per 1000. Achillea, the pearl, \$5.00 per 100.
 Aquilegia, \$5.00 per 100. Santalina, large, \$5.00 per 100.
 Bontonia Asteroides, \$6.00 per 100. Clematis,
 white, strong, \$6.00 per 100. Coreopsis, Lan-
 ceolata, \$1.00 per 100. Dianthus Barbatus,
 \$1.00 per 100. Helianthus, Maximiliana,
 \$1.00 per 100. Delphinium, Formosum, \$5.00
 per 100. Hollyhock, double white, red,
 pink, yellow, 1-year, \$8.00 per 100. Golden
 Glow, \$3.00 per 100. Lychuis Chalcidoneus,
 \$5.00 per 100. Monarda Rosea, \$5.00 per 100.
 Anthemis Tinctoria, \$5.00 per 100. Heuchera
 Sauginea, \$6.00 per 100. Stokesia Cynnea,
 \$5.00 per 100. Pyrethrum Roseum, \$5.00 per
 100. Papaver Orientalis, \$5.00 per 100.
 Veronica Longifolia, \$5.00 per 100. Platy-
 codon Blue, \$5.00 per 100. Digitalis Glox-
 iniiflora, \$6.00 per 100. Agrostemma Corona-
 aria, \$5.00 per 100. CASH WITH ORDER.

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PIN OAKS
SPECIAL LOW OFFER

Will move, this spring, a block of fine stocky trees; twice transplanted. In good roots, stems, caliper and tops they will please critical buyers. Low rates for March and April orders. Sizes 6 to 7, 7 to 8, 8 to 9, 9 to 10, and 10 to 12 feet.

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ANDORRA NURSERIES, Wm. Warner Harper, CHESTNUT HILL, PA
 Prop.

Mention the Florists' Exchange when writing.

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Conducted by Joseph Meehan.

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E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yatea, Rochester, N. Y., treasurer.

The Cedar of Lebanon.

The following interesting letter from a correspondent at New Rochelle, N. Y., will be read with interest by many:

Dear Sir: In a recent issue of *The Florist's Exchange* you have given a very instructive, as well as interesting, talk on cedars, mentioning especially the cedar of Lebanon. Curiously enough, in a few days after reading your notes, there came into my hands a copy of *Scribner's Magazine* for July, 1903, containing an illustrated article on the "Cedars of Lebanon," by one who had camped for a month in the cedar grove on what is known as the "Cedar Mountain" in Lebanon. There are only about four hundred trees left, and they are enclosed by a wall built by order of a governor of Lebanon. Some of the trunks measure more than forty feet in circumference; and on one broken bough, of thirty inches diameter, the writer of the magazine article counted, with a microscope, over seven hundred rings. It was interesting to know that there is a large tree in a cemetery in your city, and I am writing to tell you of a tree in this city. It is more than fifty feet high, at a guess, and measures over six feet around the trunk. I enclose a twig taken from it. The history of the tree, as I have heard it, is this: The property on which it stands was formerly owned by a physician, long since dead. I remember him as a man of some sixty years in my boyhood, about forty-five years ago. He had traveled in Syria and brought with him from Lebanon three little cedars. This one is the sole survivor. It has a beautiful shape, and the branches have the appearance of being arranged in layers. I am not familiar with the cedar of Lebanon, but I feel quite sure this is one; and I am sending the enclosed twig for your opinion, as, of course, you will know at a glance. Some time, if not too much trouble, will you kindly refer to the matter in your notes in *The Florists' Exchange* and tell us if it be the true *Cedrus libani*. There are a few cones on the top of the tree. I beg to apologize for addressing you directly, but a man who really loves trees, you know, will intrude himself anywhere if he can learn something about them. CEDARS.

The sprig referred to indicated the tree to be a true cedar of Lebanon, and it is interesting to know such a fine tree exists at New Rochelle, N. Y. The one referred to by myself as growing in Laurel Hill Cemetery, Philadelphia, is 7 feet 8 inches in circumference at two feet from the ground, and 7 feet 1 inch at five feet above ground, according to a measurement a few days ago. Its height is not the equal of the New Rochelle tree, being about forty feet, and it spreads about the same number of feet. There are two more trees in the Laurel Hill Cemetery, but smaller than the one described.

There is a nice young tree in Fairmount Park, Philadelphia, and others are to be met with. More would be seen, but for an opinion prevailing that the tree is not hardy. It is perfectly hardy about Philadelphia, and our correspondent's notes on the large tree at New Rochelle, N. Y., indicate its hardiness there. Nurserymen should keep a better stock of it. Many persons would be pleased to have such an historic tree represented in their collection.

"Cedars" has my thanks for his notes, and for the magazine he sent me.

Oaks for Avenue Trees.

It has taken some time to demonstrate to the public that oaks are available trees for avenues. Their fitness has never been doubted; the trouble has been that an opinion prevailed that the oak was an unsatisfactory tree to transplant. This opinion is not entertained to-day to nearly the extent it was, and for the reason that there are too many evidences of the successful planting of the oak around us. Look at the lines of oaks to be seen along some of the streets of Washington, D. C. And nearer home, in Fairmount Park, Philadelphia, are lines of these trees in splendid condition. Time was when the proper planting of trees was not understood as it should have been. Trees were rushed into holes prepared for them and left to take chances, much as willows were; expected to grow without any care. Their treatment is better known to-day, because there is a better class of planters in the midst of us.

Almost every tree has something about it to be understood to plant it properly. Some may be large and yet live; some may go unpruned and still thrive. The oak has its requirements. It must not be too large—six to eight feet is a good planting size. It must have careful digging and close pruning. Besides this, in the North it must be planted early in Spring, as soon as the state of the ground will permit. In the South Fall planting is as good as that done in Spring. The soil must be firmly rammed about its roots. Of course, there must be no digging of the roots between the digging up and replanting. Quite successful planting has been accomplished in the Fall, mounds of soil being dumped around each tree, to steady it and to keep out frost. Those who both sell trees and plant them for their customers will never hesitate to recommend the oak. The tree, when for an avenue, must have a wide one. It will be a mistake to plant it on any other. In the posi-

tions that parks afford it—usually long, wide avenues—it is one of the best of trees, and what a variety our country affords! There are a dozen or more hardy northern species, to say nothing of as many more in the South.

Cornus Mas, Cornelian Cherry.

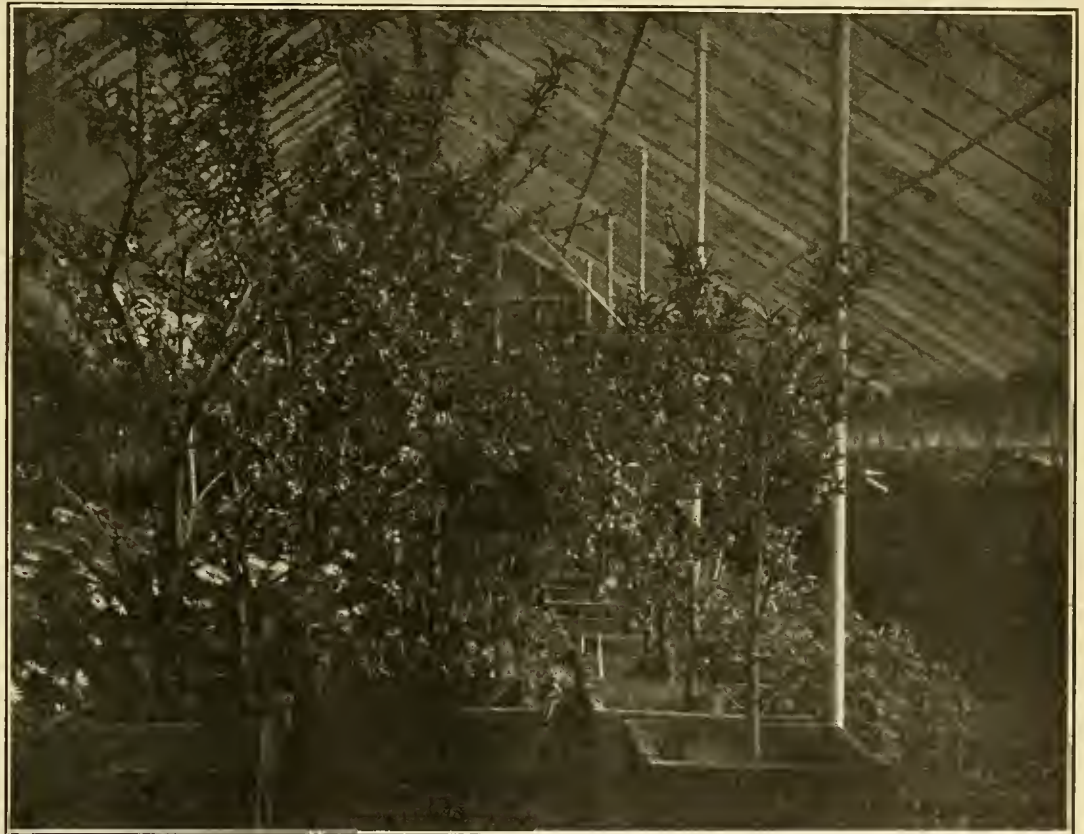
As *Cornus Mas*, the cornelian cherry, presents itself to me in flower every Spring, it always tempts me to say what a desirable shrub it is. There is really no other shrub to compare with it in the display made at the time it blossoms. This is written March 30, and our large shrub is already cheering us with its yellow flowers many fully open, but not all yet. Many bushes flower about the same time—*Daphne Mezereum*, *Lonicera fragrantissima*, *Lindera Benzoin* come to mind as being in bloom or about to flower. The pink *Daphne Mezereum* makes a good display, but it grows slowly and is never a large bush. The *Cornus Mas* makes almost a small tree when grown to a single stem, and a large bush when in bush form. It does not flower when young, as many shrubs do; it must get a few years of age first; but when once started it is sure to flower every year. It is very hardy, too, which should recommend it to our nurserymen and florists of the far North. It is on the hardy list issued by the Wisconsin college, and as

Propagating English Walnuts.

There is no better way of increasing the English walnut than by sowing the nuts. Kept moist from the time of collecting them until Spring, they are fairly sure to grow, and they soon make a good growth. In damp deep soil the seedlings make but a long tap root, but it is claimed, and looks reasonable that in light soil there is much less tap root and more fibrous ones, and this is said to be true of all nut tree seedlings. It is worth trying, as the lack of fibres is what makes the transplanting of these seedlings so difficult. The thin shelled and other varietal forms of the English walnut cannot be relied on to come quite true when grown from nuts, and grafting has to be done to increase them. The common English is used for stocks, although it is claimed that the black walnut makes a good stock for them. The grafting is done by scraping away the soil from around the stocks and grafting them well into the crown of the plants. This would be a good time to make a trial of it, as with cions cut now and held back a week or two, it would find the sap rising in the stocks.

Transplanting Yellow Locusts.

A correspondent writes me that he has noticed I recommend the planting of yellow locust seedlings as



THE PEACH HOUSE AT BRIGHTHURST, ORANGE, N. J.

Photographed March 13, by J. B. Davis.

Peter Duff, Gardener

the *Cornus Sanguinea* is reported hardy in Minnesota, this, the *Mas*, should be equally as hardy, as it is native to some parts of Europe in which the former is found.

Unlike many other shrubs, its merits are not over with its flowers. Large berries, as large or larger than many cherries, succeed, and, when ripe, are like a red cherry. These are a great attraction. And from the seeds, seedlings are easily raised as well as plants from hard wood cuttings and from layers.

Is *Euonymus Sieboldianus* Evergreen?

A discussion between two nurserymen as to whether the *Euonymus Sieboldianus* was or was not an evergreen was heard recently. The facts in regard to its character are that it is an evergreen in the South, but not in the North, as its behavior north shows. The Winter just past gave us lots of snow, and wherever entirely snow covered, this euonymus has kept all its leaves as green and fresh as they ever were. But above the snow line every leaf is off. I presume, therefore, that it is evergreen where no hard freezings occur. There is a great impatience to grow on the part of this plant as soon as Winter is over. It takes but a few days of heat to start its buds lengthening.

As the leaves of this euonymus are large, as large as those of *E. japonicus*, but not as shining, it ought to make a good pot shrub for use for decorative purposes, in which position it would be evergreen, I think, when free from frost.

early in Spring as possible. He has not had the planting of many, he says, but his experience is, that as late as possible before the leaves expand is much the better time. The recommendation to plant early, which he refers to, was given in a general way as covering all hard-wooded trees, locust included, and it is certainly the experience of planters that trees of this nature do far better when set as soon in Spring as the season will permit. Among trees in general there are some which really appear to prefer later planting—magnolias, for example—and it may be that late planting would suit the yellow locust as well. But those who have found no difficulty in early planting will wish to continue setting them at the first opportunity. Our Spring season is so short that one might find a difficulty in deciding which part of it was early and which late. From four to six weeks covers the season. My advice is still the same—to set out the trees as early as possible. JOSEPH MEEHAN.

Peaches Under Glass.

The peach trees shown in the illustration were brought into the house at Brighthurst, Orange, N. J., in January, where the treatment was that prescribed in the articles by William Turner. Some of these trees are five years old. PETER DUFF.

BERMUDA HARRISII BULBS

THE "SEMPER IDEM" BRAND

I AM NOW BOOKING ORDERS FOR JULY AND AUGUST DELIVERY PRICES ON APPLICATION

CHAS. A. V. FRITH HAMILTON, BERMUDA

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EVERGREEN

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A FEW THOUSAND SEEDLING BERBERIS THUNBERGII, ROSA RUGOSA and ROSA LUCIDA

Write for prices. SIDNEY LITTLEFIELD, North Abington, Mass. Mention the Florists' Exchange when writing.

AMERICAN TREE SEEDS AND PLANTS Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it. **OTTO KATZENSTEIN & CO.** Tree Seeds and Plants Specialists, ATLANTA, GA. Mention the Florists' Exchange when writing.

F. & F. NURSERIES SPRINGFIELD NEW JERSEY Wholesale Growers **TREES AND PLANTS** in full assortment Trade Catalogue Free. Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET! Very fine stock of above at extremely low prices. Trees, Shrubs, Vines, etc., in assortment. SEND FOR WHOLESALE LIST. **SHREWSBURY NURSERIES, Eatontown, N. J.** Mention the Florists' Exchange when writing.

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KINDLY address all letters to Messrs. Maltus & Ware, 136 Water Street, New York, during the stay (up to the 10th of May) of our **MR. ENDTZ** in the United States. **ENDTZ, VAN NES & CO., BOSKOOP - HOLLAND** Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings. Ericas.

Climate conditions in most sections of this country make the culture of ericas difficult and a risky business. We have neither the soil in which heaths can be grown to perfection, nor the genial and humid atmosphere in which they delight. Great Britain, outside of their natural habitation, affords an ideal climate for the culture of these charming plants, and there they are seen in all their beauty. But for all this, well-bloomed heaths of all the known and most popular varieties, which now run up into the hundreds, are by no means a rare sight in the plant houses and conservatories of some of the up-to-date American growers. As a commercial venture, the handling of some of the Winter-blooming varieties has proved most profitable, although heaths are probably the most unsatisfactory living-room plants of any offered to the public as house-plants. At the same time, no plant sells faster than a well-balanced erica in flower. Almost all of the flowering sized stock is imported from Europe, is easily brought into bloom in any airy, cool greenhouse, and as easily disposed of when at its best. Best results and good profits are obtained where ericas are handled in large numbers, where one or several houses are fitted up and especially given over to the culture of heaths. It is seldom that a few plants, scattered here and there through a greenhouse filled with a miscellaneous stock, afford much pleasure or profit to the grower.

Ericas are fine Easter plants, but this year that holiday is much too late for most of the very best varieties. Some of them will be past their bloom by this time. These should be cut in just enough to give them a pleasing form and shape. Some may need transplanting. Plants that are perfectly healthy may go into a pot a size larger, while sickly and doubtful specimens, if of an especially good variety, are frequently restored to vigor by transplanting into a new pot of the same size as the one it occupied, or even a smaller one. In such a case the ball of earth is loosened with a pointed piece of wood, the outer soil shaken off and the decayed part of the ball of finely fibred roots cut away with a sharp knife. Should the inner core of the ball of roots be dry—and this is very often the case—then a dipping of several minutes into a tub or pail is necessary before potting. When the peat-soil in which the plants were grown once gets dried out, it will not take water in any other way than by immersion in a tub of water.

In potting heaths, plenty of drainage material should be placed in the bottom of the pot. The best soil for these plants, and for all those of a like nature, is in Europe, obtained from strips of land at the foot of old pine and spruce forests, where calluna, vaccinium, genista and thymus luxuriate. Since we do not have this peculiar peat here, a soil, mellow, porous and sandy, will have to do instead for the few ericas left on our hands and to be repotted. I have used various kinds of soil, but have found well-fibred, turf-like, sandy soil, six months old, roughly broken up and mixed with a goodly quantity of spent hotbed manure, to be the best mixture.

The proper watering of ericas requires judgment and some practice. They must never be allowed to get real dry, and it is just as dangerous to water them when they do not need it. It is safer to use a can than the hose in watering a house of ericas. Some of them will be found to dry out faster than others, and making a few trips with a watering can will do the work as it should be done. The oftener heaths have to be watered at their roots the poorer plants they will be, or, in other words, the slower a heath dries out at the roots and the longer it can be

700,000 CAL. PRIVET

	Per 100	Per 1000
3 years, 2 1/2 to 3 ft., extra heavy	\$3 25	\$28 00
3 years, 2 to 2 1/2 ft., well branched	2 50	23 00
3 years, 18 to 24 in., well branched	2 00	15 00
3 years, 12 to 18 in., 4 to 8 branches	1 50	10 00
2 years, 3 1/2 to 4 ft., very heavy	3 00	25 00
2 years, 2 1/2 to 3 ft., well branched	2 25	18 00
2 years, 2 to 2 1/2 ft., well branched	2 00	15 00
2 years, 2 to 2 1/2 ft., 3 to 6 branches	1 50	10 00
2 years, 18 to 24 in., 5 to 8 branches	1 50	10 00
1 year, 14 to 20 in., 2 to 4 branches	1 25	7 00
1 year, 10 to 14 in., 1 to 2 branches	1 00	5 00
Cuttings, strong		75
Tree form, 3 years, heads 4 to 6 feet		25c. each.

All the above plants have been transplanted and cut back except one year, which makes them a clean, good stock. Parties wanting 5000 or over will write and get better rates. **J. H. O'HAGAN** River View Nurseries, Little Silver, N. J. Mention the Florists' Exchange when writing.

OAKS

MACROCARPA, PIN, RED WILLOW OAKS. Fine trees, 8 to 12 feet. Ask for Price List of Trees and Shrubs.

SAMUEL C. MOON, Morrisville, Pa. Mention the Florists' Exchange when writing.

RHODODENDRONS

Maximum, per 100, 6 in., \$5.00; 12 in., \$10.00; 20 in., \$15.00; 30 in., \$20.00; 40 in., \$25.00; 60 in., \$40.00, one or more stalks, with grub, 50c. to \$1.00 each. Choice plants. Cash with first order. Send for price list of trees, plants, etc.

J. N. PRITCHARD, ELK PARK, N. C. Mention the Florists' Exchange when writing.

WHAT DO YOU WANT?

2000 Hydrangea paniculata Grandiflora, 2 ft. 8c., 1 ft. 5c. 2000 Hydrangea Otakus, for 4 in., 8c.; 3 in., 4c. 2000 Spiraea Anthony Waterer, 2 years, strong, bushy, 6c.; medium, 4c. 1000 Clematis paniculata, 3 years, heavy, 10c. Clematis Jackmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Veitchii, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyanæa, field-grown, \$3.00 per 100. 5000 best shrubs and vines, Dahlias, etc. Send for list. **BENJ. CONNELL West Grove, Pa.** Mention the Florists' Exchange when writing.

California Privets

Strong, healthy stock, 4 ft. to 5 ft. high. **\$50.00 per 1,000**

H. H. BATTLES, Newton Sq., Pa. Mention the Florists' Exchange when writing.

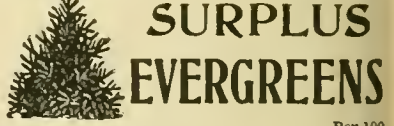
CALIFORNIA PRIVET

Per 1000
2 to 3 ft., 3 to 5 canes.....\$16 00
18 to 24 in., 2 to 4 canes..... 12 00
16 to 20 in., 1 to 2 canes..... 8 00
DEUTZIA, PRIDE OF ROCHESTER
Strong clumps..... 80 00
2 to 3 ft..... 30 00
Transplanting size..... 10 00
W. B. COLE, - PAINESVILLE, OHIO
Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET CHEAP

100,000 well grown plants, 3 to 4 ft., selected \$4.00 per 100; \$25.00 per 1000; 2 1/2 to 3 1/2 ft., 7 or more branches, \$2.50 per 100; \$17.50 per 1000; 20 to 30 in., 5 or more branches, \$2.00 per 100; \$13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches, \$1.50 per 100, \$7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.

CHAS. BLACK, - HIGHTSTOWN, N. J. Mention the Florists' Exchange when writing.



SURPLUS EVERGREENS

Per 100
SCOTCH PINE, 3 to 4 ft......\$7.50
" " 2 to 3 ft..... 6.00
WHITE PINE, 4 to 5 ft...... 35.00
" " 3 to 4 ft..... 25.00
" " 2 to 3 ft..... 10.00

Good supply of Hemlocks, Norway Spruce, and Abor Vite, White Spruce, Douglas Spruce, Colorado Blue Spruce, Abies Concolor, Balsam Fir, etc. Both Seedlings and Transplanted. Write for Trade List. **D. HILL, Evergreen Specialist, DUNDEE, ILL.** Mention the Florists' Exchange when writing.

TREES
Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country. Gold Medal - Paris - Pan-American - St. Louis. 102 prizes New York State Fair, 1904. Illustrated Descriptive Catalogue FREE on Request. **ELLWANGER & BARRY** Mt. Hope Nurseries, Rochester, N. Y. Dracser 1024 U Established 65 Years. Mention the Florists' Exchange when writing.

JOSEPH HEACOCK WYNCOTE PA.
 Grower of
KENTIA BELMOREANA AND KENTIA FORSTERIANA
 Mention the Florists' Exchange when writing.

KENTIA BELMOREANA
 Fine, healthy 4 in. stock, ready for a shift, \$40.00 per 100.
J. SCHMITT, Cleveland, O.
 Station B.
 Mention the Florists' Exchange when writing.

PALMS AND FERNS
 Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; *Personi* and *Boston* Ferns, 6 in., \$5.00 per 100; 8 in., \$50.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety from 2 1/2 in. pots, \$3.00 per 100; \$26.90 per 1000. *Stanisla Borbonica*, 3 in. pots, \$6.00; 4 in., \$5.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in., \$1.00; 8 in., \$1.00 and \$1.50 each; large plants from \$5.00 up.
Kentia Forsteriana and *Belmoreana*, from 1 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in., \$15.00; 5 in. pots, \$50.00; 6 in. pots, \$16.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. *Areca Luteascens*, 4 in., \$20.00; 6 in., \$50.00 per 100; 8 in., \$1.00 each. Larger plants, from \$5.00 up.
Arancaria Excelsa, 4 in., 45c.; \$6.00 per doz.; 5 in., \$1.00. Larger plants from \$1.50 up. *Arancaria Compacta*, from \$1.00 to \$5.00 each. *Pandanus Utilis*, 8 in. pots, 50c. *Dracena Indivisa*, 5 in. pots, \$16.00 per 100. *Phoenix Reclinata*, 4 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$5.00 per doz. Larger plants from \$1.00 up. *Phoenix Canariensis*, fine specimens, from \$3.00 to \$5.00 each. *Azaleas*, 10 in.-12 in., \$50.00 per 100. Larger sizes at lowest rates. Plants in fine condition.
JOHN BADER, Troy Hill, Allegheny City, Pa.
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EMERSON C. McFADDEN
 Wholesale Florist and Grower
Specialties
ASPARAGUS-SMILAX-ROSES
 Tel. 28 A SHORT HILLS, N. J.
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FOR SALE-BARAINS. 100
Asparagus Plumosus Nanus, 3 in. \$4.00
Ampelopsis Velutina, 2 in. 2.00
Snaydragis (Chicco), 2 in. 2.00
Grevillea Robusta, 2 in. 2.00
Vinca Variegata, 2 in. 2.00
 " 3 in. 4.00
Smilax, 2 in. \$9.00 a 1000. 1.00
Cryptomeria Japonica, 3 in. 3.50
 " 4 in. 8.00
 Low express rates. Satisfaction guaranteed.
E. I. RAWLINGS, QUAKERTOWN, PA.
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70,000 Blooming Plants FOR EASTER
 20,000 pots *Lilium Longiflorum*, 12 cts. per bloom.
 4,000 *Crimson Rambler Roses*, trained in unique and artistic designs, \$1.00 to \$25.00 each.
 10,000 *Azaleas*, 75 cts. to \$15.00 each.
 3,000 *Hydrangeas* 75 cts. to \$5.00 each.
 3,000 *Spiraeas*, \$4, \$5 and \$6 per doz.
 3,000 *Rose Plants*, \$6.00, \$9.00 and \$12.00 per doz.
Rhododendrons \$1.00 to \$15.00 each.
Genistas \$6.00, \$9.00 and \$12.00 per doz.
Metrosideros (Bottle Brush), \$1.00, \$1.50 and \$2.00 each.
 A large assortment of *Hyacinths* in pans, \$9.00 and \$12.00 per doz.
Wisterias, and other blooming plants.
 Cash or Reference
H. C. STEINHOFF
 WEST HOBOKEN, NEW JERSEY.

4 Ferns You Will Want
Scottii, 8 in., \$1.00 each; 4 in., 60c. *Boston*, 4 in., \$12.00 per 100; 2 1/2 in., strong, \$4.00 per 100 *Pieroni*, 4 in., 20c. each; 3 in., 10c. each *Anna Foster*, 3 in., 10c. each.
ASPARAGUS SPRENGERI, 4 in., fine, 8c. Cash Please.
BENJAMIN CONNELL, West Grove, Pa.
 Mention the Florists' Exchange when writing.

ORCHIDS
 We have just received in superb condition, our first shipment of **Cattleya Labiata**. Write for prices. We also recommend our large stock of well-grown, established Orchids.
 Write for catalogue.
LAGER & HURRELL, Summit, N. J.
 Orchid Growers and Importers
 Mention the Florists' Exchange when writing.

EASTER LILIES EASTER
60,000 Lilies Ready. Stock superb. Per 1000, \$125.00.

Also *Hydrangea Otaksa*, 3 to 16 blooms, at 25c. per bloom.
Azaleas, all sizes, from 50c. to \$3.00 each.
Spiraea Gladstone, *Rhododendrons*, *Deutzias*, *Genistas*, *Hyacinths*, *Tulips*, *Daffodils* in pots and pans.
CUT FLOWERS
Roses, *Carnations*, *Cut Lilies*, *Tulips*, *Daffodils*, *Asparagus*, *Smilax*, in any quantity.
 PRICES RIGHT.
LAKEVIEW ROSE GARDENS, Jamestown, N.Y.
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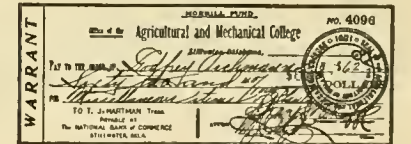
Headquarters for Easter Plants

Blooming Easter Week, or before if desired. Now ready for immediate shipment. I am noted and have a reputation for the past fifteen years for raising and shipping Choice Easter Plants throughout the land. Nine houses and ever so many hot-beds crowded with them, in better condition than ever before.

FERNS Our Specialty
 We have just completed a new 20,000 sq. ft. greenhouse range, especially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.
CIBOTIUM SCHIEDEI
 The Most Magnificent Tree Fern in Cultivation.
 Extra Large Specimens.
 3 in. pots 2.75 each; 32.00 per doz.
 7 in. pots 1.75 each; 20.00 per doz.
Adiantum Cuneatum, 4 in. \$16.00 per 100
ANDERSON & CHRISTENSEN, Telephone Call 14 F., Short Hills, N. J.
 Mention the Florists' Exchange when writing.

ASSORTED FERNS
 4 inch, suitable for large Jardinieres and basket work, in 10 good varieties, \$15.00 per 100.
Asparagus Sprengeri, 4 in. 12.00 per 100
ASSORTED FERNS FOR JARDINIERS
 In all the best varieties, fine bushy stock, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000, 500 at 1000 rate.

Azalea Indica. My specialty: 3 houses full of my own importation, the cream of Ghent productions. We sell none in the Fall; therefore they are not picked out for the Fall trade. We force them only for our customers' Christmas and Easter trade. *Mme. Van der Cruyssen*, the people's choice, the best of all pink varieties. Plants covered with buds, as round as an apple, 60c., 76c., \$1.00, \$1.25, \$1.50 to \$2.00 each. Other best varieties, all shades. *Niobe*, double white; *Bernhard Andreas*, white; *Empress of India*, Professor Walters, *Ilustre*, *Paul Weher*, *Joseph Vermeer*, and many others, 60c., 75c., \$1.00 to \$1.50 each.
Lilium Harrisoni and *Japan Multiflorum*. H. F. Mitchell's special bulbs; 6 in. pots, 6 to 8 buds to a plant, 10c. per bud. Under 5 buds, 12c. a bud.
Cineraria Hybrida. Best strain, all shades, 6 in. pots, \$2.00, \$3.00, \$4.00, \$5.00 per doz.
Hydrangea Otaksa, pink (a fine white including), 6 in. to 7 in. pots, \$4.00, \$5.00, \$6.00, \$9.00 to \$12.00 per doz.
Spiraea. Two houses full. *Floribunda*, *Japonica* and *Blondine*, 6 in. pots, large bushes, \$3.00, \$4.00, \$5.00 per doz. *Compacta*, \$2.00 to \$3.00 per doz. *Gladstone*, unusually fine this year, full of buds, perfect jewels, \$6.00, \$7.00, \$9.00 per doz.
Roses. *American Beauty*, 6 in., 36c. to 40c. each; 6 in. pots, bushy, 25 to 30 in. high, 50c. to 75c. each; *Hardy Roses*, including *Hermosa*, 6 in. to 5 1/2 in. pots, \$3.00, \$4.00 to \$5.00 per doz.
Begonia. *President Carnot*, *Flambeau*, three varieties in all, 6 in. pots, \$3.00 to \$4.00 per doz.; 4 in. pots, \$1.80 per doz.
White Daisies, 6 in., \$3.00 per doz.
Hyacinths. Raised from first-size bulbs. *Grand Maître*, blue; *Gertrude*, pink; *King of the Blues* and *La Grandesse*, white; \$12.00 per 100.
Double Narcissus or *Von Sion*. *Double Nosed Daffodils*, 3 bulbs in a 5 1/2 to 6 in. pot, \$2.00 per doz. pots. *Tournefort*, best selling double *Tulip*, 3 in & 4 in. pot, \$1.50 per doz. pots.
Arancaria Excelsa. 25 to 34 in. high, 4, 6, to 6 tiers, 7 in. pots, \$1.50 each.
Ficus Elastica (Rubbers), 6 to 7 in. pots, 25 to 35 in. high, \$6.00, \$9.00 to \$12.00 per doz.
Moon Vine. A. W. Smith's Hybrid, \$5.00 per 100.



December 10, 1904
 The material ordered from you arrived in good shape. The bill has been O. K'd and sent in and will be paid shortly. Please accept my thanks for material sent gratis. **O. M. MORRIS**, Dept. of Horticulture, Oklahoma Agricultural and Mechanical College, Stillwater.

The shipment of plants ordered of you came duly to hand and I must say I am thoroughly satisfied with them. It is a great pleasure to get such stock. **W. M. LINSAY**, Linsay Floral Co., Birmingham, Ala.

March 17, 1906.
 The Azaleas you shipped me at different times during the past winter I have found to be most satisfactory plants and always ready sellers, as were also your *Arancaria Excelsa*. Am glad to know just where to look when in need of fancy stock. **GEO. P. MERRIFIELD**, Merryvale Greenhouses, Helena, Ark.

Many thanks for the prompt delivery and for the fine stock. The plants were all right and very satisfactory. **HOFFMEISTER FLORAL CO.**, Cincinnati, Ohio.

Mr. G. Aschmann has a very fine stock of Azaleas and other Easter plants. We can highly recommend Mr. Aschmann to our customers for fair and reliable business treatment. **H. F. MICHELL CO.**, 1018 Market St., Philadelphia, Pa.

To save express charges, mention if plants are to be shipped with or without pots. Cash with order, please. No references. All goods must travel at purchaser's risk. Bell telephone, Ylga 3669A. My place can be reached by trolley in twenty minutes from City Hall; take 15th or 31st St. Germantown Car.

WHOLESALE GROWER AND IMPORTER OF POT PLANTS
GODFREY ASCHMANN, 1012 ONTARIO STREET, Philadelphia, Pa.
 Mention the Florists' Exchange when writing.

AZALEAS FOR EASTER

We have a limited quantity of Azaleas suitable for Easter forcing, which are offered for immediate delivery as below in the following varieties:
Mme. Van der Cruyssen, Helen Thielman, Empress of India, Vervaneana, Simon Mardner, Niobe, Deutsche Perle

Price:	Per dozen	Per 100
10 to 12 inches in diameter at	\$5.00	\$40.00
12 to 14 inches in diameter at	6.50	50.00
14 to 16 inches in diameter at	10.00	75.00

PETER HENDERSON & CO., 35 & 37 Cortlandt St., New York
 Mention the Florists' Exchange when writing.

EASTER EASTER EASTER
10,000 Easter Lilies

1500 Long Stem, American Beauty, Bride and Bridesmaid Roses; Carnations, Violets, Von Sions, Daffodils, Paper Whites, Lily of the Valley, Tullips, Sweet Peas and other flowers in season.
Ferns, *Leucothoe Sprays*, *Galax* and *Asparagus*.
 Write for Easter prices, or send in your order; I will not overcharge you.

E. G. GILLETT, "The Wholesale Florist"
 Phone Main 2747 113 East Third Street, Cincinnati, Ohio
 Mention the Florists' Exchange when writing.

ROSES

2000 Golden Gate 1000 Bridesmaid
1000 Bride
Ready for 3-in. pots, good, clean, healthy stock,
\$2.75 per 100; \$25.00 per 1000. Order quick.
WEST VIEW FLORAL CO.
KNIGHTSTOWN, INDIANA
Mention the Florists' Exchange when writing.

ROSES

2 1/2 in. BRIDE and BRIDESMAID,
clean, vigorous stock, ready for
shift or planting. Order now and
get the pick of 10,000 of them.
\$3.50 per 100; \$30.00 per 1000.

PITTSBURG ROSE & CARNATION CO.
FRED. BURKI, President
Crystal Farm, Gibsonia P. O., Pa.
Mention the Florists' Exchange when writing.

GARDENIAS

Strong plants, 7 and 8 inch pots,
with from 15 to 30 well developed
buds, \$2.00, \$3.00, and \$4.00 each.

A Splendid Easter or Spring Pot Plant

YOUNG ROSES

Own root AMERICAN BEAUTY
First crop now ready from 2 1/2 inch
pots. \$6.00 per 100; \$50.00 per 1000.
GRAFTED BRIDES and BRIDES-
MAIDS on Irish stocks. \$12.00
per 100.

ROBERT SCOTT & SON
Sharon Hill, Del. Co., Pa.
Mention the Florists' Exchange when writing.

LIKE FINDING MONEY

are the prices we will quote on large lots of the following

Roses Strong, Field-Grown Plants, on Own Roots

CRIMSON RAMBLER
DOROTHY PERKINS
LA FRANCE } PRICE, FOR MODERATE QUANTITIES (and not less than 25 of a kind) **\$9.00 per 100**

IF YOU CAN USE 500 OR MORE OF ANY ONE KIND, get our special prices. They will surprise you. We are over-stocked with these kinds and the first comes get the benefit. They are fine stock. Send for our complete price list. There are other bargains in it. Use printed stationery. We send it only to the trade.

JACKSON & PERKINS CO. NEWARK, NEW YORK
Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLIS	\$12.00	\$100.00	LAWSON	\$2.00	\$15.00
CHICAGO WHITE	12.00	100.00	NELSON	1.50	12.50
RICHMOND OEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
BOSTON MARKET	2.50	20.00	QUEEN LOUISE	1.00	9.00
ADONIS	2.50	20.00	PERU	1.00	9.00
ESTELLE	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

2 1/2 Pot Plants

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	UNCLE JOHN	\$4.00	\$35.00
ROSALIND ORR			CHATENAY	4.00	30.00
ENGLISH	25.00	200.00	SUNRISE	4.00	30.00
LA DETROIT	6.00	50.00	KAISERIN	4.00	30.00
AMERICAN BEAUTY	6.00	50.00	BRIDESMAID	3.00	25.00
LIBERTY	5.00	45.00	BRIDE	3.00	25.00
PERLE VON GODES- BERG	5.00	40.00	IVORY	3.00	25.00
			PERLE	3.00	25.00

AMERICAN BEAUTY, bench plants, \$6.00 per 100; \$50.00 per 1000.

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central

PETER REINBERG, 51 Wabash Av., Chicago

Mention the Florists' Exchange when writing.

Song of the Season.

When the gold is on the willow, and the maple buds are red,
When your feet have grown so heavy that you fear they're made of lead,
When the fever's in your system and you're lazy as the deuce,
And your ever-ready answer is a muffled "What's the use?"
Then it's time to hang the kettle and prepare for making soap,
Just beside the ash-filled hopper on the orchard's sunny slope,
Then the season's full of trouble, in the semi-southern climate,
For it brings that awful something known as "garden-makin' time."

Fallow ground with clods to crumble, paper bags of onion sets,
Rake and hoe and soil-stained garments, and a soul that sorely frets
At the prospect of exertion even of the mildest kind,
And your humping over makes you sort of dizzy like and blind.
Beets and radishes and lettuce, pease and seven breed of bean,
Poppies, marigolds and larkspurs for the walks and in between,
These the things inseparable from the days that reek with rhyme,
These the tragedies that trouble us in "garden-makin' time."
—S. W. Gillilan in Baltimore American.

It's Inspiring.

Your valuable paper always gives a new inspiration when one reads those interesting topics from near and far. Wish you success for the future.
CHAS. F. DRAWIEL.
New York.

ORCHIDS

FLORISTS' ORCHIDS

Largest Importers, Exporters, Growers and Hybridizers in the world.
SANDER & SONS, St. Albans, England
Agent, A. Dimmock, 31 Barclay St., N. Y. City
Mention the Florists' Exchange when writing

BOSTON FERNS NICE YOUNG STOCK \$10.00 per 1000.
ZAMIA INTEGRIFOLIA \$12.00 per 1000.

Shipped by freight. Send money order on Little River, Fla.
SOAR BROS. Little River, Fla.
Mention the Florists' Exchange when writing

MacArthur Rose

Extra Strong, \$10.00 per 100;
\$90.00 per 1000.

Chatenay Rose

First-class Stock, \$3.00 per 100;
\$25.00 per 1000.

THE GASSER COMPANY
Euclid Avenue, Cleveland, Ohio
Mention the Florists' Exchange when writing.

Rose Plants

OWN ROOTS

All propagated from wood taken from plants growing in the field. Have not been forced. Are out of doors with no protection whatever. Safe to ship anywhere without soil or roots. Try them and see if they do not beat forced stock grown from forced wood. We have over 100,000 yet to sell and to clean them up quickly the following prices will apply so long as stock lasts.
Cash, please, or satisfactory references.

Prices and varieties:

	Per 100	Per 1000
Agrippina	\$1.50	
Bride	2.00	
Capt. Christy	3.00	
Cecil Brunner	2.00	\$18.00
Chromatella (Cloth of Gold)	2.00	
Cherokee (Single)	1.50	12.00
Cheshunt Hybrid	2.00	
Clara Watson	2.50	20.00
Clio	2.50	20.00
Climbing Cecil Brunner	2.50	20.00
Climbing Clo. Souper	1.50	
Climbing Devonensis	2.00	
Climbing Kaiserin	2.00	18.00
Climbing Meteor	2.00	
Crimson Rambler	1.50	14.00
Dorothy Perkins	2.00	18.00
Francisca Kruger	2.00	
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Contents.

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List of Correspondents.

Table listing names of correspondents and their locations, including News Items, Baltimore, Cincinnati, etc.

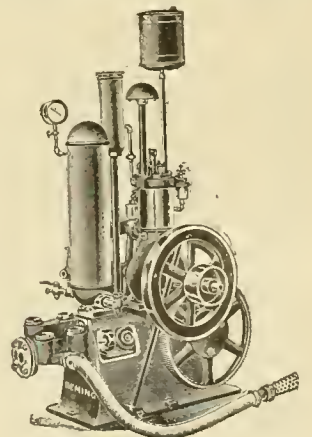
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What Constitute a Herbaceous Plant?

(Continued from page 424.)

Editor Florists' Exchange:

Again, we are told, "the general run of herbaceous plants are in the best condition for the market when one and two years old." Of course, this is literally true; think of phlox especially so. But where could you get the latter until these last few years? Under the old method of propagation it was almost an impossibility. Thanks to the not new, but better and quicker, method of propagation, which gives us better and stronger plants, and thousands where we used to get hundreds in much shorter time, we are enabled to give better satisfaction to our customers.

As regards dianthus, if medium sized clumps of these could be raised, they would be all right—nursery grown one year, but not so good as if grown in 4-inch pots; for if the soil is too rich for them in the nursery, it has been my experience to get big, long, lanky growths and few roots which, while they will grow, are neither so pleasing nor so satisfactory as good strong pot-grown plants. The new everblooming types, which I had the honor to raise from seed, are especially so; also nearly all of the plumaris type, and particularly some of the highly colored ones, such as Laura Wilmer, Souvenir de Sale, etc., which, to get good plants, must be pinched back occasionally through the Summer. If grown on into four-inch pots and plunged outside, they make nice

possible results, the alert grower is doing his utmost to grow plants in such shape as will give best results.

Of iberis, I have never been able to grow a plant large enough to send out in one year from seed or cutting. They naturally grow slowly, that is, the sempervirens type, and it usually takes two years to grow good-sized, salable plants by this method. With divisions it is very different. If divided in Fall or the early Spring, good salable plants are grown in one year, usually in the open ground. Iberis gibraltarica grows into a large plant from either cuttings or seed in one year; so does I. Tenoreana and I. Pruiti. But all three have proved with the writer only semi-hardy, needing much care and protection to carry them safely through the Winter. I. corrafolia is a very desirable variety to grow, and its neat evergreen foliage is always attractive. I think it is a more desirable form than I. sempervirens. The variety I. semp. superba, a strong, robust form or selection from I. sempervirens is much more desirable, both in foliage, growth and flower, than the type.

Getting back to our question, it really would be a nice thing if some sort of a standard could be set up, to know just what does constitute a hardy plant; but it will, I think, forever remain an unsolved problem; for, on account of the great diversity of growth, habit, size, etc., of the various plants, coupled with the vast differences of opinion of the various growers, it will be an exceedingly difficult thing to get men's ideas to converge on a given point and thus set up a standard. The range is so wide and the plants in so many respects are so exceedingly different and di-

eraceum aurantiacum, saponarias, and in one catalogue some twelve other varieties may be found that will spread very rapidly, quickly covering large areas of ground. Some of these plants root from each joint as they spread over the surface; some throw a strong tap-root, as it were straight and deep into the ground, as callirrhoe, Gypsophila repens monstrosa, etc., and then run over the surface, drawing their support from the one large central root. Others again spread rapidly by underground stolons on an almost horizontal plane, on or just below the surface of the ground, and if given good nursery cultivation for one year, would make such plants as would puzzle a Northern Securities trust lawyer to disentangle, much less a gardener to properly plant.

As regards those varieties marked with an asterisk, they would soon become troublesome weeds if not properly kept within bounds; and to send a person nursery-dug plants of any of the foregoing would, to my way of thinking, not be half so satisfactory as well-grown plants from 3 or 4-inch pots. Many of these mentioned quickly establish themselves in pots with but little difficulty and make good presentable subjects, that, if given a fair trial, will prove much more satisfactory and be all the more readily handled both by grower and planter.

Then, of course, there are plants, such as Gypsophila paniculata, anchusas, cephalarias, catananches, amsonias, asphodels, baptisia, and many others of a similar nature, if handled in the Fall or in very early Spring, are all right, and I prefer them nursery dug. But it is a hard matter to get men to dig these plants in the nursery with proper care. Not understanding their natural method of rooting, many of the plants are very badly bruised in digging. Then again, as soon as the warm days of Spring are upon us, it is wonderful to see the early and rapid growth some of these plants make. Many of their first efforts are to throw up their flowering stems, and if deprived of these, they will not flower again until the following Spring, which is a cause of disappointment to many buyers. Then, if for nothing more than this early growth, to say nothing of the desire of people who do their own gardening to wait until fairly warm or settled weather comes, when the bulk of Spring planting is done, many, or most of these plants, to give the best immediate satisfaction, should be thoroughly established in pots.

The question of express charges might be brought as an argument against this method, but I am thoroughly convinced that the results obtained by established pot plants versus nursery-dug plants at the season here alluded to, that is, the latter part of April and the month of May, will be more than compensated for by the early results obtained; and I feel fully assured that when a better knowledge of this class of stock obtains, the fallacy of many planters for big clumps of nursery-grown specimens of very many plants will wane.

Of course, some things, such as peonies, give more satisfaction in larger pieces, and other similar things could be mentioned, but they are in a minority. It is neither necessary nor desirable to pot all hardy plants, even for this late period, for all fibrous rooted plants, such as sweet williams, myosotis, Bellis perennis, even cionerhas and heleniums, as well as many others which time and experience will teach, can be very readily removed and transplanted with care at almost any period. And it is wonderful how some of these yield to this method of treatment, and the transformations that can be produced by shifting late, close division, and late planting. Asters, if thus treated, do not attain much more than half their usual height and bloom much later. And here is a class of plants that varies much both in their habits, periods of flowering, and method of growth, and a succession of flowers may be had from them alone that will last from May to December. Some of these plants are very close, compact growers, others are very rampant, and by means of their underground growths can soon choke out plants of a weaker nature, so their habits and methods of growth should be known in order to keep them in check. Many of these move very readily from the nursery, but others are best grown for sale in pots.

Now, in conclusion, considering all the various points and vast differences in the various methods and habits of growth of this large and interesting class of plants, I fully agree that it is, and will be, a most difficult thing to fix a standard size for any of these plants. Differences in soil, location, and methods of treatment, as well as opinion, all combine against it, and while there is a demand for a cheap class of stock, we shall also find those who will cater to it. As our friend intimates, on page 303, it will very likely prove cheap stock. But I claim, after all, that good, clean, vigorous healthy-growing stock, not necessarily grown in nursery rows a year before sale, but such as will flower the first season after purchase and reach the purchaser in good condition, whether from pots or field, is the most desirable; but no safe rule, except discretion, good judgment, and a knowledge of the plants to be sent out and the period when they are to be sent out, can be formulated.

HERBERT GREENSMITH.

Carnation Enchantress.

Editor Florists' Exchange:

I have forwarded you a photograph of a house of Enchantress carnation (reproduced) that has been in continuous crop since September 1. The picture was taken March 9. The plants were grown indoors the entire season. I would like to add that I have a very fine sport from Enchantress, much deeper in color, resembling The Marquis in that respect very much.

Canandaigua, N. Y. ROBERT H. M'KERR.



HOUSE OF ENCHANTRESS CARNATION, MARCH, 1905
Grower, Robert H. McKerr, Canandaigua, N. Y.

plants, fill the pots with roots, and you have an evenly balanced plant, with a good bunch of roots, and, as a rule, good tops, with a nice ball of soil attached that can be shipped anywhere and transplanted with safety, as the danger of so doing is thus reduced to a minimum. This is a factor by no means to be ignored. Another point is assured, that plants so grown are not so apt to suffer from careless planting, and will not look so unsightly as the long, lanky nursery-grown plants generally do.

With Lavendula vera, my experience with respect to nursery-grown and pot-grown stock has been the same. Spring or Winter struck cuttings, or seedlings, planted in the nursery do very nicely, make very beautiful plants, and if pinched once or twice, a splendid head, but very small roots in proportion to the top. When transplanted, they have not given nearly the satisfaction of pot-grown stock. The plants are much smaller in growth when the roots are confined and, in the first instance, are not so good-looking; but they more than recompense for this on transplanting into permanent quarters. Again, grown thus, they can be moved or sold, at any time, which is one great feature in thus growing many plants of this nature. Orders often reach the nursery all through the months of May and June, and nursery-dug stock at this late period is practically useless to send to most customers, very often causing disappointment to both seller and purchaser; whereas, if plants are at hand, with a good ball of earth attached, that have been previously pot-grown, they can be supplied with some degree of satisfaction to all concerned. Of course, I have previously said in one or two of my articles, that late planting should be discouraged if possible, but the anxiety to get all the business possible and the wish of the customer to have the work done while in the mood, also have their consideration and weight, both with grower and planter; and to meet this demand with the best

verse, that it is almost an impossibility so to do. Take the little quaker lady or Houstonia cœrulea, for instance. If seen on the gravelly paths of our borders, rockeries or frames in the Fall of the year, it is scarcely an inch across; but the cool days of Autumn, and the rain and snows of Winter cause it to expand, and when the warm, balmy days of Spring come, it is two or three inches or more in diameter. And it produces its pretty quaint little sky-blue flowers in such wondrous profusion as to cause the most critical-minded person to go into raptures over its delicate beauty. There are even smaller gems than this which we have no need to import from the high mountains of Europe. A glimpse at a large-sized bulb of Erythronium americanum would be a revelation to most people; and scarcely could we credit that so small a bulb would produce as large a flower. How are we to set up a standard here? It takes an erythronium from five to seven years to grow into a bulb of flowering size. Compare these with two other plants, one a native and one naturalized, viz., creeping Jenny, or Lysimachia nummularia, a plant which has a ready sale, and which will root and grow from every joint over stones, gravel, or in most any place. If planted in good soil, it is wonderful how large a space a small shoot will cover in a single season. Nepeta glechoma variegata will, in a good season, from a two and a half-inch pot, spread for three or four feet away from its original position; and both will, if in any way neglected, become a nuisance. Other plants of a similar habit, found in the catalogues to-day, and most of them desirable and useful in their proper places, are aconas, Achilleas *millefolium, ptarmica and the variety the Pearl, *ægopodium, ajugas, *alchemilla, antennarias, arenaria, arabis, Artemisia Stelleriana, cerastiums, Coronilla varia, Coreopsis senifolia, *epilobiums, *Inula britannica, Lotus corniculatus, various *lysimachias, *polygonums, *menthas, monardas, *Hi-

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This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

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*Flora Plena. 3-in. pots.....	.75	6.00	*Delphinium Belladonna. Very rare, strong plants.....	2.50	20.00	Alleghehy, one-year-old, mixture.....	1.00	8.00	Pyramidalis. 4-in. pots.....	2.50	20.00
Armeria Maritima Alba. 3-in. pots.....	.75	6.00	*Chimensis. Blue. Strong plants.....	.75	6.00	Glandulosa Grandiflora. 3-in. pots.....	1.00	8.00	Umbrosa. 3-in. pots.....	1.50	12.00
Splendens. 3-in. pots.....	.75	6.00	*Formosum. The most popular.....	.75	6.00	Oculis Christi. 4-in. pots.....	1.00	8.00	Sedum Spectabilis. 4-in. pots.....	.75	6.00
Artemisia Abrotanum. 4-in. pots.....	.75	6.00	*Strong plants.....	.75	6.00	*Japanesae Iris. 24 choice named varieties.....	1.50	10.00	Spurium. 4-in. pots.....	1.00	8.00
Purshiana. 4-in. pots.....	.75	6.00	*Hybridum. Strong plants.....	1.00	8.00	*Sempervirens. 3-in. pots.....	.75	6.00	Coccineum. 4-in. pots.....	1.00	8.00
Stellaria. 3-in. pots.....	.75	6.00	*Sulphureum. Strong plants.....	2.00	15.00	*El. pl. 3-in. pots.....	1.25	10.00	Creeping, in variety. 3-in. pots.....	.75	6.00
*Asclepias Tuberosa. Strong one-year-old roots.....	.75	6.00	*Dianthus Barbatus (Sweet William). Large clumps.....	.75	6.00	Incarvillea Delavayi. Heavy.....	1.50	12.00	Senecio Fulcheri. 3-in. pots.....	1.00	8.00
*Asters. Hardy Alpine varieties. 3-in. pots.....	.75	6.00	Strong 4-in. pots.....	.75	6.00	Inula Britannica. 4-in. pots.....	.75	6.00	Doreum. 4-in. pots.....	1.00	8.00
*Asters. Hardy Michaelmas variety as under. 3-in. pots.....	1.00	8.00	*Latifolius Afroccineus. 2½-in. pots.....	.50	4.00	Floribunda. 3-in. pots.....	1.00	8.00	*Shortia Galicifolia. 4-in. pots.....	2.00	15.00
Amellia Bessarabica. Lilac blue. 12-in. Elegans. Large light blue flowers. 18-in. Amelastinus. Amethyst blue. 3 ft. F. W. Burbidge. Bright, rosy lilac of large size. 3½ ft. Horizontalis. Small, rosy lilac flowers. Lavis. Light blue. September and October 4 ft. Longifolia Formosissima. Deep lilac, shaded purple. 3 ft. Mad. Soyneusa. Bright, rosy lilac. 15-in. Mrs. F. W. Raynor. Light purplish crimson. 3 ft. Novae Angliae. Large, bluish purple. 3 ft. Rosa. Bright rose colored. 4 ft. Pterimicoides. White. Useful for cutting. 18-in. Robert Parker. Large, lavender blue. 4 ft. Snowflake. Pure white, of small size, but freely produced. St. Brigid. White tinted with blush. 4 ft. Thea. S. Ware. Large, light rosy lilac. 3½ ft. Top Sawyer. Delicate soft blue. 4 ft. White Queen. Large, broad petaled, white. 3½ ft.											

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsman and the Trade in general

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Orders from unknown parties must be accompanied with cash or satisfactory references.

News of the Week in Brief.

Donald Newlands, a well known florist of Buffalo, N. Y., is dead.

John Kirchgraber, Sr., the pioneer florist of Mattoon, Ill., is dead.

J. A. Valentine, of Denver, Col., has been elected president of the Colorado Society of Floriculturists.

A Chicago florist, named August Wussow, committed suicide, by shooting, in Mount Greenwood Cemetery, March 30.

The board of directors of the S. A. F. O. H. met in Washington, D. C., this week to arrange a program for the August convention in that city.

The New York Florists' Club will have a display of Easter stock at its meeting Monday evening, April 10. Other attractive features will be presented.

The New Orleans florists are protesting against the quality of the cut flowers shipped to that city. The local horticultural society has appointed a committee to endeavor to better conditions.

Professor Cowell, of the Buffalo Botanic Gardens, has returned from a plant collecting trip in Panama. The killing of an 18-foot boa constrictor was one of his adventures while there.

The Buffalo (N. Y.) Times of March 26 presents a portrait of Wm. F. Kasting, and has the following appreciative words to say of the Bison City's progressive wholesaler:

"He is a business man of marked ability and sterling integrity, who by personal attention to business has brought the immense enterprise of which he is the head, up to the high plane that it now occupies. A man of surpassing good judgment and well-founded business ability he is not only a shrewd financier and a natural commercial leader but more than that, he is a man of charming personality and great affability. He has many friends among the people of Buffalo, and he has been honored with several marks of political preference. In politics he is a Democrat, and he has done yeoman service both for the people of Buffalo and for his party. As the business men's candidate" he always has polled a surprisingly large vote. There are many honors yet in store for Mr. Kasting, and his friends hope to see him elected Mayor of Buffalo."

Our Spring Number.

Our much esteemed friend, Edgar Sanders, of Chicago, writes us concerning our recent Spring number (issue of March 25) as follows: "Your typical illustration of the trade advertising spirit of the day is a good and true exponent. It is a grand number—all meat and no frills—both in the number of advertisements and the usual great amount of information it contains. There is no mistake about it; the paper is not published for effect, but for utility. I congratulate the publishers, the editor and your able corps."

New York's Needed Plant Market.

On page 380 of our issue of March 25 we presented, from the pen of our London correspondent, Mr. A. Hemsley, an article on the workings of Covent Garden Market, written at our request. This market has, from its inception, been an unqualified success and a great source of revenue to its owner, and its popularity and worth are evidenced by the fact that increasing demands for space are continually being made by growers, necessitating additions to the market's area.

We regret that our correspondent was unable to get a line on the actual cash turnover for flowers and plants at this immense emporium, so that a comparison could be made with similar figures in New York. It is safe to say, however, that the annual revenue from flowers and plants disposed of in our metropolis, through the various and now segregated distributing agencies, will compare favorably with that of London.

The next thing that suggests itself is as to why New York is still without its "Covent Garden." The deduction is, in view of what is set forth in Mr. Hemsley's remarks, that a similar mart provided in the midst of us would be equally as well patronized, proportionately, as the great London market, prove equally as advantageous and be equally as profitable to its promoters.

The hopes of securing such a building here are, however, as remote to-day as they were a year ago, when the subject of erecting a building of this kind by the city was before the Board of Apportionment, and finally left in the hands of the Controller for investigation and report. So far as we have seen or heard, no report relative thereto has materialized. This year again the market florists selling in New York will occupy the old stand at Canal and West streets and dispose of their products once more under a sheltering tent. And we are now in the twentieth century.

As we have before stated, we do not believe that the municipal authorities will ever construct and equip New York's flower market. In fact, many good and valid reasons could be brought forward as to why the city should not do so. This necessary and much-to-be-desired institution will come, if it ever comes, as the result of private enterprise, through the energy of some far-sighted man or men who shall see in such a structure and its operation a safe and profitable investment.

The New York Market Florists' Association has, with commendable effort, endeavored to interest the city authorities in this subject for the past few years without avail. They, and all concerned, should now set to work to bring it to the attention of some investor seeking a sure and remunerative outlet for his surplus cash. That such can be found we firmly believe. And with the matter presented to him in its true light we may then see arise on some suitable spot in our great city an institution that will prove one of its greatest attractions; one of its greatest educators, a feature that will tend to the uplift, the amelioration and happiness of its denizens in a measure now unfortunately but little dreamed of or considered.

Degeneration of the Carnation.

This subject was discussed in a recent issue of The Gardeners' Chronicle, London, England, by James Douglas, a carnation grower of about fifty years' experience. Mr. Douglas advances the following causes tending to degeneration in the divine flower: Over-propagation; over-feeding, which, he says, is a fertile source of disease; it also induces for the time a strong, sappy, but unwholesome growth, which can only be maintained for a few years. Over-flowering will also weaken carnations to a greater extent than many cultivators are aware. One large double carnation flower will reduce the vitality of the plant to a greater extent than a dozen or a score of single flowers. The single bloom is of a very fugacious character; it rapidly develops and in two or three days the petals drop off; whereas the large double flowers develop slowly, and last in full beauty for ten days or more to the rapid exhaustion of the plant. The coloration of the foliage has a good deal to do with the vigor of the plant. The darker the green, the greater is the vitality.

Mr. Douglas then suggests the following as a remedy for degeneration in the carnation: Selection of vigorous, healthy varieties both as seed and pollen bearers. There should be no great hurry to get up a stock of plants, but they should be propagated in a (more or less) natural manner. Over-stimulating manures should be avoided; the plants should be grown in good garden soil, using no stimulants but decayed farm-yard manure, which should not be allowed to come in contact with the roots. Some of the plants should have a year's rest from flowering, and

layers [he is referring to the English method of propagation] should be taken from the rested plants. Wild plants do not degenerate, and if more natural conditions were allowed to prevail, cultivated carnations would be free from it.

We believe the views of Mr. Douglas, as expressed above, will find general endorsement by American carnationists. It is generally conceded that our "high pressure" method of cultivation is responsible in large part for varieties degenerating. The advice to return to more natural conditions is one worthy of attention and adoption.

In the same discussion, Mr. Douglas cites the late E. S. Dodwell, author of "The Carnation," as having stated that the average life of a variety of carnation was fifteen years. Few, if any, of the varieties cultivated in America can boast of such longevity; but that, we are inclined to think, is owing more to older varieties having been superseded in one or more of their attributes by their successors, rather than to inherent defects resulting from senility. Fashions in flowers are also responsible for older sorts being discarded to make way for those that better meet the existing popular demand. It would prove interesting to know just how long a variety would live and thrive, under good conditions of culture, in the United States, before it actually petered out, and became absolutely worthless.

BOOKS RECEIVED.

THE POTATO. Its Cultivation, Growth and Development, Sprays and Spraying, Harvesting and Storing, Production, Transportation and Marketing. By Samuel Fraser, Assistant Agronomist, Cornell University. Illustrated. 5x7 inches, 200 pages. Cloth. Publishers, Orange Judd Co., New York.

In view of its importance as an article of food, no vegetable has received more attention from our State Agricultural Stations than the potato. In the preparation of this work the author has drawn largely upon the reports and bulletins furnished by these stations during the past 15 years and upon any European data which he has felt to be of sufficient value to warrant their introduction. This, in addition to the author's wide experience in potato culture, both commercially and experimentally, in Great Britain and in this country, furnished excellent material, and he has succeeded in producing a very serviceable volume. The whole subject of potato culture is dealt with from a practical as well as a scientific standpoint, and the marketing end has not been neglected. One of the most important chapters in the book is that on varieties, in which the points going to make up a good potato are treated upon in detail. Lists of the best sorts, as determined by the various experiment stations, are also furnished.

Copies of the book can be obtained from The Florists' Exchange; price, 75c.



John Kirchgraber, Sr.

John Kirchgraber, Sr., the pioneer florist of Mattoon, Ill., died Friday morning, March 31, 1905, after a few days' illness with stomach trouble. Deceased had been suffering more or less with this malady all Winter, but had been able to be around until the last few days.

Frederick Seitz.

Frederick Seitz, for twenty-five years with the August Jahn florist establishment, on Broadway, Brooklyn, N. Y., died Sunday, March 26, of paresis, after an illness of thirteen months. He was a German by birth and was born February 22, sixty-one years ago. A widow and two daughters survive him.

Donald Newlands.

Donald Newlands died at his home in Buffalo, N. Y., on Tuesday, April 4. His mother, Mrs. Jean Newlands, a widow and a sister to the late Superintendent of Buffalo Parks, Wm. McMillan, had established a retail business some twenty years ago, located close by the Main street entrance of Forest Lawn cemetery. Several years since the firm became Newlands & Son, the mother retiring therefrom actively. Mr. Newlands exhibited an apt energy that led to developing and increasing the business on a basis both substantial in character and in sphere materially broadened. His was a nature that inspired confidence, he belonging to the class of men that seem illy spared, and with whom a reliable progressiveness stood notable as a trait. He was an active member of the local club. Despite a vigorous constitution, after months of suffering, the dreaded Bright's disease claimed him as a victim. The funeral was held on Thursday of this week. VIDI.

OUR READERS' VIEWS

The Boston Flower Show.

Editor Florists' Exchange:

Will you allow the writer a little more space on this subject in reply to the letter of W. N. Craig in your issue of March 25? I decidedly say that Mr. Craig is in error when he states that I "persist in dragging red herrings over the track and fly off at tangents peculiar to myself." I am sure your readers will agree with me that I have at all times, during this correspondence, kept strictly to the subject under discussion. Mr. Craig seems to have an aptitude for immediately forgetting the past in his "thinking of the future," and it was only to refresh his memory and to prove that dissatisfaction had been caused by the working of the committee in question time and again, that I copied some of Mr. Craig's own criticisms "from a defunct horticultural journal."

Little more need be said on the subject, except that I am very gratified to notice that a decided change for the better has been made by the committee in its methods of judging and making awards, as was witnessed at the last show. And now once more I say, let the committee take one more progressive step and insist that the names of exhibitors shall be kept concealed until after the awards have been made by the judges. This, I am sure, will be a step in the right direction, and stop the criticisms of many who may not be called upon to express their views so freely as

JOHN W. DUNCAN.

Chrysanthemum Dorothy Faust.

Editor Florists' Exchange:

Noticing in a contemporary that Wm. P. Craig is about to introduce chrysanthemum "Dorothy Faust," and in view of what has been published by the officials of the C. S. A. regarding the synonymy of that variety, would it not be well for the Chrysanthemum Society of America to take steps to prove to Mr. Faust and to Mr. Craig that "Dorothy Faust" is nothing else than Mrs. Robert McArthur, as has been stated by the C. S. A. New York Committee? We have Mrs. Robert McArthur and will furnish 50 plants, free of charge, to the society to be distributed among its members in the neighborhood of Philadelphia.

I would suggest that Mr. Faust do not sell his "Dorothy Faust" until he is sure it is not Mrs. Robert McArthur. In No. 3, Vol. XIX., of January 21, 1905, Mr. Faust says he is the sole owner of "Dorothy Faust," hence our Mrs. McArthur could prove its own case. I have forwarded plants of Mrs. Robert McArthur to Mr. Dailledouze for the Chrysanthemum Society; I have also offered the Philadelphia Florists' Club 25 plants to be grown in Philadelphia for comparison.

HENRY EICHHOLZ.

Waynesboro, Pa.

Remedies for White Fly.

Editor Florists' Exchange:

I notice hellebore is recommended for use against the white fly (*Aleyrodes vaporariorum*). Another remedy that is in every way preferable, in that it will not injure either the plants or the users, is entirely effective and is always at hand, in the plain soap-suds so successfully used by Dr. Britton of the Connecticut Experiment Station. Hellebore, whether alba or the American root, viride, may kill the fly; but either form is a poison and to many it is as dangerous to inhale it as dust or powder, as to take it into the stomach as a liquid. Neither should be used indoors. And either will only kill the fly, or adult stage, and this, except as the parent of mischief, does no harm; that is, not enough to pay for the powder, and would die of itself in a day or two. The injury to the plants is done in the scale stage, by the louse, while it is growing its wings and developing to the propagating form. One pound of common laundry soap to five gallons water is Dr. Britton's proportion for the soap solution. The creatures in their every stage are on the under side of the leaf, and usually on the fresh, succulent growth, and above that which the flies, as nymphs, sucked dry. This only needs to be sprayed, therefore, and it is the under side that must be hit. A few days after spraying with the soap, there must be a washing of clean water. Another way is to cut off and burn infested foliage; that is, that which carries living scale, the dry and dead leaves with the empty cases do no harm except as they are unsightly.

This white fly is of a large family, but seems to be the only member that is a general feeder, others keeping to a single order of plants. Its home is tropical America, and it first came under notice on plants brought therefrom to Kew and Chiswick. A pet name for it, in at least one part of England, is the holy ghost fly. Control there, I am told, is kept by the measures used against other house pests. The first appearance with us was in New England, and for a time it was not known elsewhere, but, with the dissemination of glass-grown stock and plants, the area of it has extended until it is now at home in the gardens in Summer all east of the Mississippi, and is reported in some localities even further West.

The creature has no resting stage, so cannot endure the Winter outside, hence its existence rests with the

forcing house. From this it is carried in the Spring to the garden and field on bedding plants, and there, breeding unchecked, it soon makes its presence apparent if the real cause of the harm done is not known. In the Autumn it is again carried to the houses on plants and very soon is in numbers to do bad work, which, more often than not, is attributed to other causes, the creature being so minute as to escape notice. A means of general dissemination is in the plants sold from infested houses. Last Spring I purchased it in Philadelphia on plants of lettuce, cabbage, egg-plant and tomato; and in the Summer I saw it on plants of late cabbage and celery coming from farther South. The greatest harm as yet recorded is in tomato fields in canning districts. The check for this plant infestation is to immerse each plant, before setting, in soapy water. For this I prefer whale oil soap (the pound to 8 gallons of water), to the laundry soap solution. I think the stronger wash is better for out of doors, and the plants seem to be benefited by the cruder material of which it is made. E. S. S.

Reflections on Current Topics.

MR. EDITOR.—If there is anything that would exemplify that the Scotchman's prayer, "O Lord, gie us a guid conceit o' o'ersels," (and our "pipes") has been answered, in the case of one man at least, it is John Birnie's letter in your April 1 issue. Notwithstanding the gentleman's alleged quotations from Holy Writ regarding the popularity of the pipes among the "chosen people," I am still inclined to extend my sympathy to the New York club; for I cannot believe the audience whose features depicted "relief, pleasure, and ecstasy," when the "drones were put in order," were related, either wholly or in any great part, to the lost tribes—although they do say one of these tribes did settle in the north of Scotland—despite the fact, as reported, that "many faces were seen there that night, that are generally missing from the monthly meetings."

I am obliged to Mr. Birnie for anticipating the job of S. A. F. O. H. piper for myself, on account of my "wind" capacity. Since reading your facetious correspondent's remarks, I have been pondering over the possibility of the lack of musical talent and a superabundance of "wind" being responsible for the fact that only the Scotch stick to that relic of barbarism—the bagpipes—and call it their national instrument, robbing the Jews of that honor.

* * *

I have been greatly interested in that Craig-Duncan controversy going on in your columns in regard to something or another in connection with a Boston show, which I cannot exactly get at; but as one remark has been characterized as "worthy of Job," I may be pardoned for now putting my foot in the fracas. From reading the letters of the two controversialists, it would seem both of these gentlemen agree that the methods of the Massachusetts Horticultural Society require emendation. That's nothing to squabble over, though. The Boston society does not stand alone in that respect. I read recently somewhere that there is a horticultural organization in the first city of the land that withholds announcing the winners of its prizes for a day or two after the premiums have been awarded. There's another society whose judges can tell "the best horticultural novelty in fruit, flower, and vegetable," and nobody thinks it worth while wasting time and energy in getting into a controversy about that—although one side of the argument has been presented. From Mr. Craig's reported criticisms of some of the work of the Boston judges, it would, it seems to me, be a good plan to put him on the judging board, for he evidently knows, or thinks he knows, more about the true merits of Boston exhibits than these judges themselves. But then, again, that is a failing peculiar to some people. And when Boston gets more in touch with progressive societies, like the Carnation Society for example, she'll know more of the modern methods, etc., of horticultural organizations, and, I feel sure, will leave little room for a discussion of the kind which has been running in your columns, where, like two roosters, the combatants lose sight of the merits of the case, and continue the battle because one won't give way to the other.

A remark quoted from Mr. Craig's recent writings on the Boston shows is particularly enlightening. He is reported as saying: "It is perfectly absurd to see exhibitors following the committee around and even giving them their opinions, or objecting to their awards, as we have seen in Boston." This would tend to demonstrate two things—that these exhibitors had little or no faith in the ability of the committees; and the fellow whose opinion could best convince the committee was likely to get the best award, and vice versa. Another need for the committees all being composed of "Craigs" who had opinions of their own—and the knack of sticking to them.

* * *

I was, indeed, pleased to read the views of the veteran John T. Temple on the new S. A. F. directors appointed by President Vaughan; and more than pleased to see that his honest expression of opinion has merited the appearance of his portrait in your contemporary. This, I presume, is to show what manner of man it is who thus openly declares himself. From the tone of Mr. Temple's letter I gather that we shall, by President Vaughan's selection of directors, now have advanced ideas presented to the S. A. F. that will "counteract the influence of the offshoot associations." I can easily see why there might,

perhaps, be a necessity of curbing the influence of the Ananias Society, which, from its name, is decidedly harmful I should fancy; although there is evidently room—and need—for it, as Mr. Temple states it, and others he mentions are "good enough in their place." But why counteract the influence of the bowling and shooting? Has Mr. Temple failed to read what Scott, who knows a great many things, said that "without these sports the society would not be as successful as it is, but you must think it out yourselves." Is it necessary to check that which is said to lead so strongly to the success of the society? Perhaps, though, Mr. Temple has thought it out for himself and believes with Job and not with Scott, although the last-named gentleman seems, latterly, to have gone back on the "sporting element," and has dubbed it the "light-brained brigade."

We all hope that Mr. Temple's prediction will come true; and that President Vaughan and his chosen directors (both excellent men, by the way,) will succeed in "making the S. A. F. a great power (a greater power, I should say) for the advancement of all sections of floriculture in America." I believe that has been the aim of every president and every board of directors, or executive committee, that has gone before; but that is neither here nor there. I am glad to observe we are on the eve of greater accomplishments than ever before, even though these should be brought about by knocking the bowling, shooting and Ananias Society out of business.

And while on S. A. F. matters if I remember aright, Mr. Temple was once spoken of as a candidate for presidential honors. The indorsement of the editor of your contemporary of the gentleman named, seems to me a strong point in favor of Mr. Temple having a share in carrying out, as president, the society's work that is to come about from the injection of the potent influence now to be felt—unless the S. A. F. make the presidential term ten years, as I have previously suggested, which would present the possibility of further excellent choices of new directors, and, consequently, the maintaining of the standard of advanced ideas for a decade at least. JOB.

Nephrolepis Barrowsii.

The illustration on page 469 represents the exhibit of this fern, which was awarded a first-class certificate at the recent show of the Massachusetts Horticultural Society. It is a sport from N. Piersoni, and was discovered in 1904 by Henry H. Barrows & Son, of Whitman, Mass., who describe it as follows: "Very dwarf and compact in habit, making twice as many fronds as the variety from which it is a sport; side pinnae set close together, overlapping each other, and small pinnae very finely cut; fronds only about one-half the length of those of the original variety, and mid-rib strong enough to carry the fronds gracefully. The fronds have the appearance of being very heavy, but are very light in weight. It does not revert to the type, as does the original variety."

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The monthly meeting, held March 28, was marked by a very large attendance. Three new members were elected. There was a falling off of exhibits, probably on account of everybody being too busy to trouble with them. F. R. Pierson Company was awarded a certificate of merit for Baby Rambler rose; and L. A. Martin a similar award for an excellent vase of *Antirrhinum majus*. A very interesting and instructive essay was read by L. A. Martin on "Spraying for San Jose Scale." Quite a lively discussion ensued, the consensus of opinion being that unless some concerted action is taken to check this pest, there will be few live fruit trees in this section in the course of a few years. The secretary announced several liberal donations toward the prize fund of the November show, the premium list for which is nearly completed. F. R. Pierson asked for the opinion of the members regarding the most suitable number of carnations to be staged for the cup he offers, his desire being to give the smaller growers as well as the larger ones, a chance to compete. After the members had freely expressed their opinion Mr. Pierson decided to give the cup for seventy-five blooms, being twenty-five each of the three Lawsons—pink, white and variegated, instead of fifty bloom Variegated Lawson, as originally intended.

Next month Professor Powell will deliver a lecture on trees and roses. For this lecture the school trustees have kindly granted the society the use of the lecture room in the High School, which will enable us to make the lecture open to the public. WM. SCOTT.

The bulb mite has been receiving consideration by the English Board of Agriculture. It is said this mite attacks sound bulbs as well as those which are diseased. The remedial measures recommended are: (1) To burn affected bulbs; (2) wash and spray every affected bulb with paraffin, repeating the operation after a fortnight; (3) wash the bulbs in sulphide of potassium (liver of sulphur), 1 ounce to 3 gallons of water; (4) fumigation with bisulphide of carbon, in order to do which place the bulbs in an air-tight receptacle, and on the top of the bulbs put a saucer of the bisulphide and let the bulbs remain in the vapor for 48 hours. It must be remembered that the vapor is poisonous and inflammable, so that no light of any description should be brought near the fluid.

The Haarlem (Holland) Quinquennial Bulb Exhibition.

The seventh quinquennial exhibition of the Dutch General Association for Bulb Culture was held March 17 to 22 at Haarlem, Holland. The show was opened by President Wentholt, who feelingly referred to the good work done by his predecessor, the late Mr. Krelage, and touched on the support given to the association by the royal family of Holland.

The large hall was well filled. On the left, a collection of callas in different kinds was very noticeable. This was followed by iris, which in turn was succeeded by a group of *Acer polymorphum japonicum*, shown in twenty-five distinct shapes. Nearby a new tulip, *Tulipa Fosteriana*, called forth attention; it has been recently imported; the color is a nice orange red, resembling more or less that of *Tulipa Greigii*. Another pot contained five of these tulips showing the same interior markings, but those of the first had a yellow, the latter a black ground, just like *Gesneriana*. Spireas, parrot tulips, amaryllis (*hippeastrum*), real giant flowers of deepest red to snow white, next drew our notice. A great improvement in the last named class of flowers was noticeable; a few years ago every flower was a star now they are all wheel-shape.

A very nice group was that composed of liliums, lily of the valley, lachenalias, trilliums, watsonias, tropaeolums, iris, orchids, etc. A group of 12 pots of *Cyclamen persicum papilio* had the largest number of flowers we ever have seen. C. G. van Tubergen was the exhibitor. A collection of sixty varieties of hyacinths in pots, shown by Messrs. Ant. Roozen & Son, Overveen, gained a gold medal, and deservedly so. From E. H. Krelage & Son, Haarlem, came a magnificent bed of Darwin tulips, 25 varieties, 10 of each in a pot. These comprised such fine kinds as Ouida (bright red); Feu Brillant (light scarlet), Queen Emma, Psyche, Gretchen, all soft rose, and Crepuscule (light silk gray and lilac). The firm was awarded a gold medal for its fine exhibit. C. G. van Tubergen also received a similar award (prize of honor) for 30 varieties of double tulips.

Narcissus and hyacinths were well shown; among the former were many large varieties in new sorts not yet in the trade. Van Waveren's Giant is an immense bicolor of Emperor shape; Olympia and Robert Sydenham are both immense yellow trumpets. Mina, more compact than *Horsfieldii* and Princess Mary, have also large, fine flowers. Messrs. M. van Waveren & Sons, Hillegom, got a first prize (gold medal) for this fine display.

The pride of the exhibition was the collection of hyacinths in glasses from G. van der Mey, Lisse. The trusses and individual flowers were immense, and their condition and fine appearance were the topic of conversation among the exhibitors. A group of 78 single and double sorts received an extra gold medal;



COTTAGE TULIPS, SHOWN BY C. G. VAN TUBERGEN
At Haarlem Quinquennial Bulb Exhibition



E. H. KRELAGE & SON'S DISPLAY OF DARWIN TULIPS
At Haarlem Quinquennial Bulb Exhibition

it included such varieties as Isabella, double rose; Lady Derby, single rose; General Vetter, single white; Grand Maitre, single blue. A second collection of 18 single and double varieties, 3 of each, also received a gold medal; among them were Kastenje bloem (chestnut flower), double rose; Enchantress, single blue, etc. For other exhibits G. van der Mey also got three first prizes.

An upstairs room was filled with tulips of the kinds mostly seen at exhibitions, but a collection of cottage tulips from V. G. van Tubergen was worthy of special mention; it included *Tulipa elegans*, *Virginalis*, *Picotee*, *Mrs. Moon*, *La Merveille*, and many other varieties. *Polyanthus narcissus*, *erythroniums*, orchids, *helleborus*, etc., were also shown here.

Certificates were awarded to a late flowering single tulip named Bianca, a pure white in the style of *La Reine*, but a late bloomer, exhibited by P. Pryde. Heemstede, and to a single, named Red Riding Hood, exhibited by W. J. Blom & Son, Overveen. Narcissus, Van Waveren's Giant, Narcissus Winifred, and Narcissus *Imcomparabilis* Rosy, from M. Van Waveren & Son. *Iris sindjarensis* var, *Tubergeniana*, *Iris sindjarensis* var. Alba, *Iris pur-sind* (*Iris persica purpurea* x *Iris sindjarensis*), *Iris sind-pur* (*Iris sinjarensis* x *Iris persica purpurea*), *Tulipa Fosteriana*, *Freesia Tubergen's Mauve*, and *Freesia Tubergen's Carmine*, all from G. C. Tubergen, Jr. The two *freesias* last named, seedlings from *Armstrongii*, were

generally agreed to as the novelties of the exhibition. On Saturday, the Queen Dowager paid a visit to the exhibition; and on Sunday the hall was thronged by the workmen from the different bulb establishments of Holland.

The award jury was composed of the following well-known horticulturists:

P. Rudolph Barr and Herbert J. Cutbush, London; R. Wilson Ker, Liverpool; Alfred H. Pearson, Lowdham; John Pope, Birmingham; Walter T. Ware, Bath; Fr. Benary, Erfurt; Michael Buchner, Munchen; C. Kommer, Bremen; Rudolf Seidel, Grüngräbchen; August Siebert, Frankfurt; W. Swoboda of J. C. Schmidt, Berlin; Philipp Siesmayer, Frankfurt; A. Chatenay, secretary of the National Horticultural Society of France; K. J. Kuyk, Mont St. Amand; H. Martinet, Paris; Charles Pynaert, Ghent; A. Truffaut, Versailles; Albert Viger and Philip Leveque de Vilmoren, Paris.

Sweet Peas for Cutting.

To vast numbers of garden lovers the principal recommendation of the sweet pea lies in its unqualified value for the varied purposes of home decoration. It is essentially a flower for utilization in *epergnes*, vases and other ornaments, while for dinner-table decorations it is unrivalled. Among the worshippers at the shrine of this flower are many whose sole object in growing it is to have an inexhaustible supply of flowers for cutting, and it is especially for their benefit that the subjoined list has been compiled. It comprises new and old varieties, some of which rank among those recommendable for exhibition, that are extremely floriferous, and which, if persistently cut, continue to produce blooms over a very protracted period. The first and second named claim a place by reason of their rapid progress and early flowering propensities.

Mont Blanc	Blanche Ferry
Apple Blossom	Emily Henderson
Lady Mary Currie	Miss Willmott
Lady Grisel Hamilton	Duke of Westminster
Dorothy Eckford	Countess Cadogan
Pretty	Prince of Wales
Princess Beatrice	Queen Victoria
Dorothy Tennant	Lottie Eckford
Grace Greenwood	Prince Edward of York
Prima Donna	Countess of Lathom

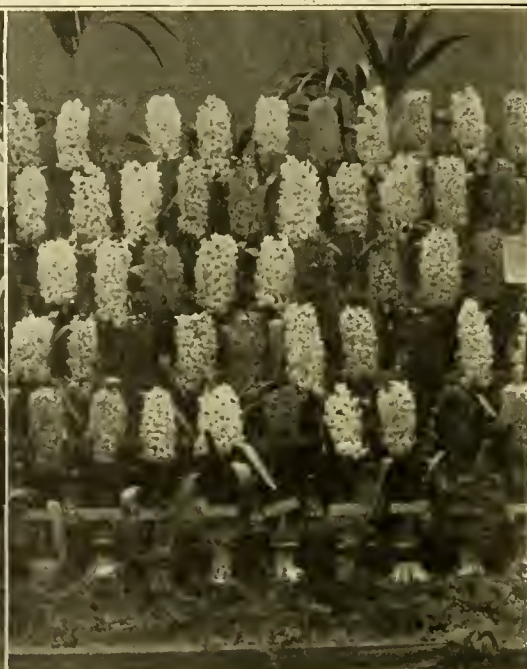
SWEET PEA ANNUAL, 1905.

To Be Had for the Asking.

The Messrs. Kroeschell Bros. Co., of Chicago, are very much convinced of the utility of their little device for measuring carnation blooms, mentioned in our issue of March 25, on account of the large number of requests for the measures received from our readers. The Messrs. Kroeschell Company evidently think (and rightly so) that The Florists' Exchange is the medium through which the attention of the greatest number of interested parties desiring the firm's useful little device can be secured. We have, therefore, been asked by the concern to repeat that the carnation measure can be had for the asking, on receipt of a 2c. stamp to cover postage. Address 55 Erie street, Chicago, Ill.



Gold Medal Group of Amaryllis



Prize-Winning Hyacinths in Glasses. Shown by G. Van der Mey

SOME OF THE EXHIBITS AT QUINQUENNIAL BULB EXHIBITION, HAARLEM, HOLLAND

Our London Letter.

BY A. HEMSLEY.

THE ROYAL HORTICULTURAL SOCIETY.—Continued prosperity seems assured to this society. Eighty new Fellows were added at the last meeting. The shows at the new hall attract large numbers of visitors, and at each meeting we get quite a fine display of interesting subjects. At the last, one of the most prominent features was a large group of platyceriums from Messrs. Hill & Son, Edmonton. I have often advocated these quaint ferns for decorations, and I feel sure that there is money in them. A gentleman in America, writing me some few years ago, told me that he found them do better in the house than any other fern that he had tried, and they were always a source of interest to those who had not previously seen them. The sorts Messrs. Hill showed were alocorne, rethiopicum, also known as straminea, Wilkincki, Veitchii, Hillii, angolense and a magnificent specimen of grande. The two first named are the most useful for general purposes, and these may be readily propagated. If fixed on blocks of peat, root bulbils are readily formed, and these soon develop into young plants which are easily detached, and will soon grow into a useful size. Hobbies, Ltd. (J. Green) showed rose Philadelphia Rambler. It was hardly up to the standard as regards culture. Yet it was evident that the individual flowers are better and the color a more pleasing shade than is Crimson Rambler. Messrs Robert Veitch & Son, Exeter, again showed their Erica Veitchii, this time a compact plant densely covered with bloom, and an award of merit was given for it.

In roses shown by Geo. Mount, Liberty and Ulrich Brunner were the best reds. Captain Hayward was also good. Mrs. Sharman-Crawford, one of the best of several pinks. Messrs. Cuthush & Sons, Highgate, showed carnation General Kuroki, a very fine scarlet variety, of habit similar to the American varieties. This gained an award of merit.

Magnolia Campbellei from a private source, was one of the finest we have seen, the large flowers being of a beautiful rosy pink on the outer, and nearly white inside. Lathyrus pubescens, a very pretty azure blue variety, with rather small flowers, and about a dozen on each stem, came from the gardens of Leopold de Rothschild. S. Mortimer, Farnham, showed a fine wallflower-leaved stock, with large double white, highly fragrant flowers. It was named "All-the-year-round," and is said to flower at any time according to the time the seed is sown. It should be useful for market. H. Langston, of Marston, Herefordshire, showed violet Princess of Wales, one of the finest blues we have; the flowers shown were of remarkable size. We also see this fine variety in the market, and there is no better, though La France may run it very close.

We are getting rather overdone with rock plants and deciduous flowering plants at the meetings. It is the same thing time after time, with but slight variations.

FLOWER FASHIONS.—All kinds of floral arrangements for funerals, etc., are now made up with a much better groundwork, and the framework, being covered with moss, keeps the flowers up much better. Maiden-hair fern is very little used. Ivy leaves, bronze tinted berberis foliage, croton leaves and other substantial foliage make a better base and last well. We cannot quite get away from the old conventional wreaths, yet generally other designs are more in favor and colored flowers are used extensively. I find that for wedding bouquets the Parma violets are much in favor. At the fashionable wedding of Marconi, the bridesmaids'



GENERAL VIEW OF QUINQUENNIAL BULB EXHIBITION, HAARLEM, HOLLAND

bouquets consisted chiefly of these violets, and I have lately seen several other wedding orders where they have been the leading feature. In fact, they seem to be taking the place of the carnation Miss Joliffe, which was so indispensable a few years ago. But this old favorite, I find has not quite died out; the other morning I saw some good blooms in the market.

Classification of Sweet Peas.

In 1902 the National Sweet Pea Society (England) organized the first public attempt to classify sweet peas under recognized color headings, and diverse as are the opinions held in regard to colors, the result, as judged by the expressions of numbers of growers, was an unqualified success. The tabulated returns were quoted on every hand, appreciations coming from America as well as from all over the United Kingdom. Seed merchants expressed their approbation and were anxious that something of the same nature should be done every year. It was, therefore, decided to conduct a second classification during 1904, and the results are subjoined.

A close perusal of the details, particularly if the original classification is used for comparison, will show remarkable evidences of stability and equally remarkable fluctuations. Several varieties that held prominent positions in 1902 are just as conspicuous now; while others have fallen substantially from their

erstwhile high estate. Then, too, some that received only a comparatively small number of votes in the earlier work have now risen considerably in public esteem. Those only have been included which received upwards of ten votes in the forty papers filled in—every one below that standard has been excluded, so that those retained may be regarded as the finest sweet peas in general cultivation. There are several others of the finest quality which are not yet, owing to comparatively recent introduction, very widely grown.

WHITE.	MAUVE.
Dorothy Eckford	Mrs. Walter Wright
Blanche Burpee	Dorothy Tennant
Sadie Burpee	Admiration
Emily Henderson	Fascination
Mont Blanc (for early flowering)	VIOLET AND PURPLE.
CRIMSON AND SCARLET.	Duke of Westminster
King Edward VII.	Duke of Sutherland
Salopian	Duke of Clarence
Scarlet Gem	MAGENTA.
Mars	George Gordon
CERISE.	Captivation
Cocchine	Calypso
ROSE AND CARMINE.	MAROON AND BRONZE.
Prince of Wales	Black Knight
Lord Rosebery	Othello
Mrs. Dugdale	Shahzada
Her Majesty	PICOTEE EDGED.
Lord Kenyon	Dainty
Royal Rose	Lottie Eckford
PINK SHADES.	Maid of Honour
Prima Donna	Golden Gate
Countess Spencer	STRIPED AND FLAKED.
Lovely	Red and Rose.
The Hon. F. Bouverie	America.
Mrs. Knights-Smith	Aurora
Countess of Lathom	Jessie Cuthbertson
BLUSH.	Mrs. Joseph Chamberlain
Duchess of Sutherland	Pink Friar
Sensation	Gaiety
Countess of Aberdeen	STRIPED AND FLAKED.
BLUE.	Purple and Blue.
Navy Blue	Princess of Wales
Countess Cadogan	Senator
Emily Eckford	Grey Friar
Captain of the Blues	Wawona
YELLOW AND BUFF SHADES.	BICOLORS.
Hon. Mrs. E. Kenyon	Jeannie Gordon
Lady Mary Ormesby-Gore	Triumph
Mrs. Eckford	Prince Edward of York
Queen Victoria	Blanche Ferry
Venus	Little Dorrit
ORANGE SHADES.	FANCIES.
Miss Willmott	Those with more than two distinct shades.
Gorgeous	Gracie Greenwood
Lady Mary Currie	Agnes Johnston
Chancellor	Lottie Hutchins
LAVENDER.	Duchess of Westminster
Lady Grizel Hamilton	Stella Morse
Countess of Radnor	
Lady Nina Balfour	

For the purposes of this classification, and for future exhibitions, the Committee of the National Sweet Pea Society has decided to regard the following varieties which are bracketed as synonymous.

{ Duchess of Sutherland	{ Blanche Ferry
{ Modesty	{ Earliest of All
{ Countess of Radnor	{ Dorothy Eckford
{ New Countess	{ White Swan
{ Flora Norton	{ Mrs. Geo. Higginson, Jr.
{ Memento	{ Gladys Deal



NEPHROLEPIS BARROWSII AT BOSTON SPRING SHOW

Awarded First-Class Certificate. H. H. Barrows & Son, Whitman, Mass., Originators and Exhibitors

Commercial Orchids at Orange, N. J.

The steady growth of the orchid in popular favor has led to its special cultivation commercially. In the picture of the "Willowmead Orchidry," at East Orange, N. J., is given a type of modern orchid house, with its rows of suspended pots and baskets—the Willowmead pot and basket, in this case—and its benches well filled with plants in the double pots. Its owner, Dr. J. M. W. Kitchen, has told his experience repeatedly before gatherings of the craft and regards the cultivation of



CATTLEYA CHRYSOTOXA

the orchid as a simple thing as long as a few general principles are observed. The doctor's inventive genius has directed itself also in the direction of heating, and the visitor is shown the "Torridor" fuel and heat saving appliance, which can be attached to any furnace, and which will pay for itself in a remarkably short space of time. A manual describing the appliance he sends any interested reader.

The picture represents the main house opening out of which are ten smaller ones, which are used for the cultivation of special kinds or for resting. The presiding genius of these is W. Warner, who will be remembered by the visitors of former times to the

houses of Pitcher & Manda, at Short Hills, N. J. Some of the results in the flowering of these plants are given in the pictures of the cattleyas and dendrobiums.

The great difficulty of the leading florists now is to find flowers sufficiently rare and expensive for their best patrons, who do not wish to wear such things as common folks can afford, and here and at the other establishments devoted especially to the orchid are found full gratification for this feeling. "What does the retailer get for an orchid bloom for which he pays me one or two dollars?" asked Dr. Kitchen at a gathering, where a prominent florist was present. "It depends upon just how much the fellow around the corner is asking," was the very diplomatic reply.

The expenditure of from \$3,000 to \$5,000 for flowers at fashionable weddings is not at all uncommon now, and a decided increase in the employment of the orchid in the farewell floral offering to the passenger upon our outgoing steamers because of its valuable keeping qualities is on the increase. It is the rarest of all Easter plants, the graceful poise and dove-like form of some of its species making it particularly appropriate upon this anniversary.

Orchids bearing flowers in racemes are becoming popular at the present time for table decoration, because of their graceful combination with asparagus and adiantum, and are even sold in their pots and baskets for gifts because of the continuous bloom of one plant for several weeks. Nor do all orchids resent greatly being taken from the conservatory to the drawing-room, though it frequently means to the grower the sacrifice of the next season's flower; but even this has been found an advantage, for from the enforced rest has come increased size of the next following season's bloom.

As we understand the cultivation of the orchid better, the number of flowers upon a single plant is increased through the skill of the grower. An example of this is mentioned at an exhibition at Sandown, England, where a plant of the widely known *Dendrobium nobile* was staged bearing no fewer than 1,350 blooms. The science of window-gardening, yet in its infancy in American cities, has many valuable additions in the orchid, when our dealers wake up to this fact, particularly when simple instructions for their cultivation accompany the sale of each plant. As its capability of harmonious arrangement in evening costume has so recently been discovered here, though extensively practiced abroad, our florists find in the orchid not a flower for the connoisseur alone, but for the house and all branches of decorative work. The display of a few choice photographs of these flowers, particularly if colored, materially assist the sales.

JOS. B. DAVIS.



DENDROBIUM NOBILE. GROWER, EDWIN THOMAS, ORANGE, N. J.

Photo by J. B. Davis

Easter Orchids at Orange, N. J.

The orchids in the collection of Mr. William Barr, Llewellyn Park, which will be in flower at Easter, are *Cattleya Mossiæ*, *Dendrobium Wardianum*, *Lælia cinnabarina* and *Phaius grandifolius*. The *Cattleya Harrisoniæ*, shown in the picture, was exhibited at the March meeting of the New Jersey Floricultural Society, where it received 90 points. It had 22 blooms. It is one of the oldest in cultivation; a native of Southern Brazil, where its time of flowering is through August and September, but here, under skillful treatment, it blooms in the Spring. This plant was started in active growth the middle of June in a house with temperature of about 70 degrees facing the North, and was grown without any shading at all. Mr. Barr has forty plants of this cattleya in his collection; twenty of these are now in bloom, and the remaining twenty were started in January in a house of 60 degrees, and while grown under different conditions will receive as little shading as possible, and but little feeding, and that little only when the flowers are seen in the sheath. By this means I have secured larger flowers, longer stems, and better color than by the treatment so commonly recommended. If the house can be kept moist when cattleyas are growing, one need give no feeding at this stage.

Cattleya Trianae received 90 points at the February meeting of the New Jersey Floricultural Society. It is a native of Colombia and undoubtedly the most useful orchid in cultivation, flowering at a time in Midwinter when

blooms are scarce and in most demand and remaining a long time in perfection. It is one of the easiest to grow if you can secure fresh bulbs. Planted during August, they will flower at Christmas. If it is possible, keep them in a house by themselves. They require a little more water in the growing season. If watering is entirely omitted, the bulbs wither and take some time to recover. Our houses are elevated, while I can ventilate from the bottom I rely entirely on top ventilation. The orchids are all planted in fresh moss and peat.

ARTHUR W. BODWELL.

The orchids for Easter flowering at the houses of Mr. Henry Graves, of Orange, are *Cattleyas Mossiæ* and *Schroedera*, *Cologyne cristata*, *Dendrobium Wardianum*, *Oncidium tigrinum* and other varieties, and the usual cypripediums. They are largely used in house and table decoration at this place.

All orchids make up well with ferns, particularly of the adiantum varieties. No flower suffers more from injudicious combinations. *Cattleyas* and Roman hyacinths make an ideal decoration. *Freesias* work in well and migronette and Roman hyacinths with *C. Schroedera*, but with none other on account of color. *Cypripedium insignis* and *freesias* harmonize and make a striking decoration by skillful association in either plateau or epergne methods. *D. Wardianum*, *C. cristata* and *C. Schroedera* make up well in mantel decoration with *Asparagus Sprengeri* or *A. plumosus*. EDWIN THOMAS.

CATTLEYA HARRISONIÆ IN A SETTING OF BEGONIAS
Grower, Arthur Bodwell, Orange, N. J.

Photo by J. B. Davis

VIEW IN ORCHID HOUSES AT WILLOWMEAD, ORANGE, N. J.
Proprietor, Dr. J. M. W. Kitchen

EASTER STOCK

I Have 10,000 Pots of LILIES Just as good as those I had last Easter

ALSO AN ASSORTMENT OF

Azaleas, Spiraea, Hydrangeas, Lilac and Wistaria Not too Early for Easter

SCOTTII Do not be penny wise and pound foolish! The Boston Fern was the best until Scottii was introduced. The most prominent growers and retailers of the United States and Canada say SCOTTII leads all other commercial ferns. See my advertisement in The Florists' Exchange March 25, page 389.

JOHN SCOTT, Keap St. Greenhouses, Brooklyn, N. Y.
Telephone, 1207 Williamsburg

Mention the Florists' Exchange when writing.

60,000 GRAFTED ROSES For Forcing THE FINEST GROWN

Orders booked now for delivery in April, May and June

LIBERTY Rose pots, \$12.00 per 100; 3 1/2 inch pots, \$18.00 per 100
BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN Rose pots, \$10.00 per 100; 3 1/2 in. pots, \$15.00 per 100

500,000 VERBENAS 60 Varieties THE LARGEST AND FINEST STOCK IN THE COUNTRY Perfectly Healthy No Rust

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000
Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

J. L. DILLON Bloomsburg, Pa.
Mention the Florists' Exchange when writing.

\$12.00 per 100
\$100.00 per 1000
250 at 1000 rate

VICTORY

TO BE DISSEMINATED 1906

Place Your Orders for Rooted Cuttings of

	Per 100	Per 1000		Per 100	Per 1000
WHITE LAWSON	\$6.00	\$60.00	HARRY FENN	\$2.00	\$20.00
NELSON FISHER	6.00	60.00	GOETHE, light pink	2.00	20.00
MRS. PATTEN	6.00	60.00	GENEVIEVE LORD	1.50	15.00
ENCHANTRESS	3.50	30.00	MANLEY	3.00	25.00
PROSPERITY	2.50	20.00	MACEO	1.50	15.00
THE BELLE	6.00	60.00	CERVERA	1.50	15.00
LADY BOUNTIFUL	6.00	60.00	LAWSON	2.00	15.00

5 per cent. discount for cash with order. Send your orders early.

ALEXANDER J. GUTTMAN

52 W. 29th St., New York City.

Mention the Florists' Exchange when writing.

ROSES ROSES

From 2 1/2 in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000.
Clothilde Soupert, best bedding and pot rose. Pink Maman Cochet, fine for Summer blooming. White Maman Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio
Mention the Florists' Exchange when writing.

READY NOW Gen. MacArthur

THE most prolific flowering Red Rose in the market to-day. Grows finely in same temperature as Bride or Bridesmaid, and will produce fully as many first class flowers as either.

2 1/2 in. pot plants, with roots, \$10.00 per 100, \$80.00 per 1000.

Strong grafted stock from 3 in. pots, \$12.00 per 100.

The Storrs & Harrison Co. PAINESVILLE, OHIO
Mention the Florists' Exchange when writing.

American Beauty, 2 1/2 in. \$5.00 per 100
La Detroit, 2 1/2 in., strong 8.00 per 100
Liberty, 2 1/2 in., extra strong, 5.00 per 100
Bride and Bridesmaid, 2 1/2 in. 4.00 per 100
STRONG, HEALTHY STOCK.

BUTZ BROS., New Castle Pa.
Mention the Florists' Exchange when writing.

ROSES

2-year old, 4 in. pots, \$3.00 per 100. American Beauty, 4 in. pots, \$12.00 per 100. Roses, 2 1/2 in. pots, \$2.25 per 100, \$20.00 per 1000. Carnation Richmond Gem, 2 1/2 in., \$10.00 per 100. Also other good varieties, \$2.50 per 100, \$20.00 per 1000. Asparagus Sprengeri, 2 1/2 in. pots, \$2.50 per 100; 4 in. pots, \$10.00 per 100. Alternantheras, \$2.00 per 100, \$18.00 per 1000. Hardy Pinks, Hardy Phlox, 3 in., \$4.00 per 100; 2 in., \$2.50 per 100. Heliotropes, Salvias, Periwinkle, English and German Ivy, Fuchsias, Chrysanthemums, Ageratium, Flowering Begonias, Sweet Alyssum, Shasta Daisies \$2.50 per 100. Send for list.

THE NATIONAL PLANT CO., Dayton, Ohio
Mention the Florists' Exchange when writing.

ROSES

CARNATIONS and CHRYSANTHEMUMS

Write For Prices

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

The Retail Trade

ADVERTISING BY RETAIL FLORISTS.—Quite a number of retail florists are adopting modern business methods, and using the advertising columns, both of the trade and daily papers, advantageously. But the custom is not at all general, hence the comments upon the lack of enterprise in this direction occasionally found in media devoted to advertising subjects. The following advice from an expert, appearing in a recent number of the Advertising World, seems pertinent, particularly around Easter-tide:

The aim in advertising a florist's establishment should be to make his name widely known throughout his city, as well as in his immediate neighborhood. For aid in accomplishing this he should advertise in his local newspapers, use booklets, and make his windows worthy of admiration.

More people would purchase flowers, and many would in large quantities, if the excellence of these as gifts and their appropriateness for various occasions were duly expatiated upon in newspaper advertisements and in booklets and brochures specially prepared for the purpose. A large majority of those who fail to purchase flowers would do so if they possessed the knowledge of what was appropriate for presentation at a particular occasion. Lacking this, and not wishing to exhibit their ignorance, they allow the money to go into other channels.

Announcements written in the style indicated would harp upon flowers as dainty presents for certain holidays, and would appear on the days preceding those days. They would tell of the daintiness and appropriateness of certain florist's wares for the next day, indicate the price, and state the fact that upon receipt of notice by telephone prompt delivery would be made to any place in the vicinity.

In the booklets the subject of flowers as presents could be duly treated, perhaps under the head of the various occasions when appropriate, and perhaps reindexing the matter under the names of the flowers themselves. A mass of information of both interest and value might thus be compiled. The "language of flowers" might not inappropriately be one of the divisions of such a booklet.

The windows also could be utilized as a medium for instructing one's public. Here the teaching must be confined to the immediate neighborhood, but as that will always remain a florist's best harvest ground it should be cultivated.

Talking of the immediate locality, windows and booklets or circulars may be brought into use simultaneously. The booklets suggested in the paragraphs above naturally would be sent upon requests coming through notices of their existence in the newspaper advertisements, but there is no objection to a distribution of them in one's territory. A cheaper edition might be thought desirable for this latter purpose, or perhaps a folder embodying the principal information they contain.

THE PARK FLORAL COMPANY, Denver, Col., sends us a sample of the neat pamphlet the firm is distributing announcing its Easter offerings. Representations of daffodils and tulips, in color, make attractive cover illustrations.

H. BAYERSDORFER & CO., PHILADELPHIA.—This firm is so well known that as a rule little is written about it. No doubt this is a mistake, for when any one firm is doing a business of \$40,000 a month, it is not only a benefit to the city in which it is located, but is also a great benefit to the trade by the dissemination of its ideas and conceptions. Numbers 54 and 56 North Fourth street has been the home of this firm for many years. This is a five-story building, each floor being 22x70 feet, so that in it there are 7,700 square feet of floor space. Business increased so rapidly that four years ago the firm rented the second floor of 50 and 52 North Fourth street. Here it has a room 85x115 feet, or 9,775 square feet of floor space. This room is 18 feet from floor to ceiling. There are four rows of bins three tiers high, full of baskets of all conceivable styles and sizes, pot covers, fiber vases, etc. To the left is a large space for the storage of immortelles, crepe paper, etc. In front are shelves three feet wide and four tiers high, on which are stored cypress leaves and wreaths, wax paper in all colors, wood fiber ribbon, and on the floor tin foil in all colors. From the ceiling of this floor are suspended all kinds of fancy baskets. In the other building, 54 and 56 North Fourth street, the fourth floor front is the office. All along the south side of this floor is a glass show case from floor to ceiling. Here we see samples of Bohemian glass vases, wreaths of wax flowers, metal wreaths of all descriptions, and white doves in all desirable positions. All around this room are drawers with samples of artificial flowers, letters, tin foil, etc. In the center is a counter on which goods in season are displayed. On the back wall are shelves containing goods used every day by retail florists, and here convenient to fill quick orders. The second and third floors are utilized for fancy baskets, all kinds of vases and wicker work, such as automobiles, locomotives; also china swans, stuffed chickens, ducks, etc. The fourth and fifth floors are used as a factory, one floor alone being utilized for the manufacture of wheat sheaves, the other floor for wire designs, baskets, birch bark work, etc. Three doors up the street the firm rents a cellar containing 2,000 square feet of space, for storage, while in busy seasons, when thousands of cases are arriving every week from Europe, two other cellars are rented for two and three months at a time. Just now this firm is very busy shipping goods for Easter trade. Some six men are working steadily making up orders of fancy baskets for special orders, and the whole establishment presents an up-to-date appearance of energy and systematic business. DAVID RUST.

The Keeping Qualities of Carnation Enchantress.

Editor Florists' Exchange:

Enchantress fails to keep seems to be a general complaint, and a prominent grower recently remarked to me he would cease to grow it solely for this reason. Before hastily discarding so beautiful a carnation some effort should be made to ascertain the cause of its apparent non-keeping. Recently I cut half a dozen flowers of it and placed them in a vase in an ordinary room in my house. On the seventh day after cutting, every flower was still fresh, yet no special treatment had been given; in fact, the water was only changed once during the week. I intended photographing the six flowers, but circumstances prevented on that day. The day following three of them had faded, but the other three were still perfectly fresh, as the accompanying illustration will show. This freak photograph was not intentional, but by mistake after photographing the three flowers the best one of the three was also photographed upon the same plate.

A neighboring grower, who sells Enchantress to local customers, tells me they are always delighted with it, and come again for the same variety. Why then does it so quickly go to sleep in the wholesale and retail flower stores? There must be something wrong in the methods of handling or caring for the flowers after cutting! A. HERRINGTON.



FLOWERS OF CARNATION ENCHANTRESS
After Being Cut Seven Days

Photo by A. Herrington.

The Lasting Qualities of Cut Flowers.

In various classes of plants there may be some difference in regard to the time cut blooms will last, but in many instances it is more imaginary than real, and it is a little difficult to find the cause of some going off quickly, while others last well. Yet, in some cases, the cause is quite apparent. The first thing is that they should be cut before, or as soon as, they are fully expanded. I have seen several examples in the market this season, where, from the swollen capsules, it was quite evident that the flowers were almost passed before they were cut, and a day longer would see them quite done for. We know that in some cases it may be an advantage to hold flowers over for a certain period, but in the long run it will pay better to cut as soon as ready, and they will give much better satisfaction to the customers.

I find in carnations, any which seed freely do not keep so well as those which are abortive; for as soon as fertilization takes place, the petals wither away. This was one quality with the old favorite Miss Joffe, it never, as far as I am aware, produced seed, and consequently the flower lasted well, and this is a point worth studying by growers generally, for there is no doubt but that it is the main cause why some last better than others. The Marguerite carnations are pretty, but unless they are cut before they are fully developed, they go off quickly. It may be that the petals are not of great substance, but the chief cause will be found in the fact that they seed so freely. Begonia Gloire de Lorraine is a good example of an abortive flower lasting well. It is the one advantage in double flowers, that, being seedless, they last so much longer. The advantage of dipping the stems in water as soon as they are cut is often overlooked. Most market growers make a great point of this. Dipped in water (the stems only) and shut up in a close box, they keep fresh even longer than they would if put into water after the stems have got a little dried. Any that are inclined to bleed from the

flower stems will keep much better if dipped in hot water. The practice of immersing the flowers in water is not a good one; with few exceptions, flowers last much better if kept quite dry, and some are absolutely spoiled by being wetted. The Sweet sultan (Centaurea suaveolens) is an example of this, and it will last almost equally well without even the stems being in water. In some flowers, foliage left on the stems will absorb all moisture, and cause the flowers to fade quickly; this is the one disadvantage with chrysanthemums on long stems. But to get over this, exhibitors often strip off all the leaves from the flower stem, and use another stem with leaves only. I believe there are many who do not recognize the disadvantage of leaving the foliage on, for one often sees them in the market with all the foliage intact.

METROPOLITAN, in Horticultural Advertiser, England.

FRUIT UNDER GLASS.

Peaches and Nectarines.

Peaches and nectarines will now be making rapid headway, both in foliage and fruit; more particularly those in the early started houses. While early in the season fruit-forcing seems a little slow, at this date one can see the advance made from day to day. Probably one of the most difficult tasks for the fruit grower, especially when there is an extra heavy set of fruit, is thinning it to a fair average crop. I am aware the trees are capable of carrying a fairly heavy crop, yet many times we do not realize the quality of fruit we have left to mature until it shows color. One thing is certain, if we do carry a too heavy crop, we cannot expect such fine fruits; neither will they be so rich in flavor. One or two things are to be considered when satisfied with a fair average crop. One can reasonably be assured of a crop annually, and the trees will keep in a healthy, vigorous condition for years. To my mind, there is, therefore, nothing gained by overloading the trees. I don't mean to say it would be good policy to thin this fruit all at once; rather do it by degrees. Make the first thinning, say, when the fruit is about the size of peas, and the last when of the size of walnuts. When making the last thinning I have found it not a bad plan to give the fruit a rough count on one tree. As an illustration: here, a week or so ago, I had what I thought a tree thinned about right, but giving the remainder a rough count, which I was figuring should be somewhere around two hundred and fifty, the count proved I had over four hundred. This goes to show how easy it is to be misled.

As the fruit begins to swell, feeding will be in order. As I have before stated, the man who grows fruit to any extent should have a farm barn somewhere near by. While chemical fertilizers are all right in their place, so is manure water, that from the cow barn being preferred. In regard to feeding, no hard and fast lines can be laid down. Some soils will take more than others; therefore, the up-to-date grower will naturally find out the needs of his trees. It is far better to go on the light side than too heavy. Pages could be written on feeding, etc., but for the production of A1 peaches and nectarines we use wood ashes and bone, with a liberal amount of cow manure, both as a top-dressing and in liquid form, with now and then a sprinkling of Thompson's manure. This, in my opinion, makes a good combination for the production of choice fruit. Of course, I refer to the case of established trees.

But how about the foliage, which surely plays an important part in the perfect development of the fruit? Green fly will play havoc with it in a short time; in fact, will almost ruin the foliage in a day or so. I am a believer in the old saying, "An ounce of prevention is worth more than a pound of cure." The best remedy I know of, and one I am satisfied, whoever tries it, will use every season, green fly or no green fly, is to spray the trees once a week with whale oil soap, just enough to color the water. This surely will keep off green fly, and also put a gloss on the foliage that causes us to look and admire. This treatment seems to benefit, while fumigating is harmful to the foliage.

Melons.

Where there is any vacant space in the greenhouse, a crop of melons might be had. In producing this crop now, they can be brought along without the aid of fire heat from now on, which means melons at a comparatively small cost. However, to have a successful lot, they must be grown on without a check from the time the seed is sown till the fruit is ripe. Now that days are long, the plants will make a rapid growth, especially if planted in a fairly rough soil, so that the roots can travel through it rapidly. Probably the most successful compost for melons is chopped sod. When planting, have the plants slightly elevated, otherwise there is liable to be trouble with stem rot, although not so much danger as during the Winter months. While growing, melons delight in a moist atmosphere, but as the fruit commences to ripen, the plants should be kept a trifle drier at the root; also, a drier atmosphere will improve the flavor. Quite a variety of melons can be grown under glass. Emerald Gem is a good flavored melon, but, unfortunately, under-sized. For size and flavor combined, Sutton's A1 fills the bill. I remember some years ago growing a batch of melons, and feeding one-half with sheep manure water, the other half with cow manure. I may say there was no comparison between the two, the vines that got the cow manure being decidedly the better. WM. TURNER.

Boston.

Easter Outlook.

Easter prospects look bright and promising so far as can be learned at the time of writing. While there is no question that there will be a sufficient supply of both plants and flowers, yet there are several kinds which at present look as if the supply would be short. Azaleas, which have proved one of the best selling flowering plants all Winter, are likely to be scarce, most of the growers being already nearly all sold out. Lilies will likely be in plenty, and roses and carnations are so plentiful at the present time that there is no fear of any shortage of any of the varieties of these flowers. Violets, which last year were by all means the most popular flower of any, will this year, it is feared, be seen only in limited quantities.

News Notes.

Sidney Hoffmann, well known as one of Boston's leading florists of the younger class, was married Monday evening to Miss Fannie Freedman, of this city. The young couple have the good wishes of a host of friends in the trade. After a brief honeymoon spent in Atlantic City, they will reside in Boston.

The window decorations of MacMullin are noticeable drawing cards to this popular store. This week the decorations are all in green, which is quite a departure from the gay colors generally noticed.

The announcement of the razing of the Berkley Hotel, to be replaced by a new business block, will no doubt cause the removal from that corner of the popular firm of Houghton & Clark.

Hoffmann, who recently bought out the business of Mrs. Sutherland, on Bromfield street, is doing an immense business at that stand.

Wm. J. Stewart has gone to Washington to meet the S. A. F. directors, to make arrangements for the August meeting.

N. F. McCarthy & Co. will start their Spring auction sales of trees, shrubs and plants on Friday.

J. W. DUNCAN.

New York.

The Week's News.

It is but a few days since the snow disappeared, but such has been the change in the weather that the planting of pansies outdoors is now in full swing, and thousands are being put out every day. Particularly in the cemeteries is this work being rushed. Around Greenwood Cemetery, the planting of tulips for Spring effect has been discarded, in a great measure, so the space usually occupied by the tulips being vacant this Spring, it is causing an added impetus to the demand for pansies thus early in the season.

David Clarke & Sons, florists, 75th street and Broadway, are bringing in excellent azaleas from their greenhouses at Fordham. These plants were grown outdoors at their place last Summer, and have budded much better than does a great deal of the newly imported stock. Such excellent results are, so Mr. Clarke informed us, due to their being planted in six or eight inches of leaf soil which was placed on a ten-inch deep bed of coal ashes. This kept the roots cool and perfectly drained, and has resulted in a most luxuriant growth, with a set of buds at every tip.

The New York Florists' Club will hold its next regular meeting on Monday evening, April 10, in the Grand Opera House Building, corner of Eighth avenue and Twenty-third street. Easter stock will be on exhibition, and the question box will be opened. The three problems in the box for this month are: What is the most valuable plant introduced in the memory of any member of the club? Why are carnation growers more progressive than rose growers? and, Is floriculture in the United States as far advanced as in Europe? It would seem that such problems as these should bring out a lot of valuable information. The bowling club will meet on the alleys in the afternoon on Monday, the 10th, instead of in the evening.

Reed & Keller, florists' supply dealers, at 112 West Twenty-fifth street, have purchased the florists' supply business of Frank Netschert, and have

established a plant for the manufacture of metal designs.

H. H. Berger & Co., seed and bulb merchants, 47 Barclay street, have just completed extensive alterations in their offices. Increasing business demanded that extra office space be acquired. The whole interior has also been redecorated, which now gives this firm one of the pleasantest offices in the city.

Mr. Walter, of the firm of Stump & Walter, seedsmen, 50 Barclay street, is fully recovered from his recent indisposition, and is again attending business regularly.

The Parker-Bruen Company was incorporated on February 13 under new management, and has opened an office in the St. James Building, 1133 Broadway. The factories of this corporation are located at Harrison, N. J. The concern manufacture several specialties used by florists, notably carnation supports, pot-hangers and glazing points. In addition to these, they manufacture fire escapes and other iron work for large buildings.

Among the visitors in town this week were P. Welch and W. W. Edgar, Boston, Mass.; A. J. Cowee, Berlin, N. Y.; Carl Jurgens, Sr., and Carl Jurgens, Jr., Newport, R. I. The latter gentleman was en route to Washington, D. C., where he will be married on Monday, the 10th inst.

J. Gunther, who has been through a serious siege of typhoid fever, has recovered completely, and is again at his desk in the wholesale store of his brother, Wm. H. Gunther, 30 West Twenty-ninth street.

L. F. Van Acker, of the firm of R. & L. Van Acker Bros., Loochristy, Belgium, arrived in New York on Tuesday last.

The Heather

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By ALEX. WALLACE

Editor of THE FLORISTS' EXCHANGE

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WILLIAM STUPPE, Westbury Station, L. I., N. Y. Mention the Florists' Exchange when writing.

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American Beauty, 2 1/2 in. pots, \$6.00 per 100; \$50.00 per 1000. Liberty, 2 1/2 in. pots, \$6.00 per 100; \$50.00 per 1000. Strong, healthy stock.

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If the initial letters of this rhyme you carefully will read, They'll spell to you the paying sheet in which to place your Ad.

JOB

ROSES

Marie Van Houtte Maman Cochet White Cochet Yellow Cochet Hermosa Marechal Niel Meteor Climbing Meteor Burbank Clothilde Souper Etolie de Lyon Ivery Golden Gate Bride Bridesmaid Duchesse de Brabant Ben Silene Agrippina Pillar of Gold Solfaterre Grues an Teplitz Marie Guillott F. Kruger Perle des Jardins Mme. Welch Safrano Lamarque White La France Striped La France Climbing Wootton Duchess of Albany Helen Gould Papa Gontier Chatenay Folkestone Media Antoine Riviere Malmalson Clara Watson

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50,000 ROSES Kaiserin, La France, Perle Hermosa... 5,000 MOON VINES 3-in. pots, \$5.00 per 100... J. D. BRENNEMAN HARRISBURG, PA.

CLUB AND SOCIETY DOINGS

PITTSBURG AND ALLEGHENY (PA.) FLORISTS' CLUB.—The April meeting, held last week, was not quite so well attended as usual. The wet weather was to blame, besides, many of the members are very busy just now—that is, the growers, and they did not care to come to town. The subject for the evening was Easter plants, flowers and novelties. Four new members were elected, several names proposed for membership, and about a dozen were dropped from the roll, being delinquent in dues. There was a good display of plants, cut blooms and fancy baskets, the latter being made by H. Bayersdorfer & Co., of Philadelphia, who made a most elaborate show of novelties in fancy baskets of all sorts. D. B. Long, Buffalo, shipped some Easter novelties in his line, but they did not arrive in time for the meeting. E. F. Barker, of New York, sent some pretty pamphlets on the white heather. The Phipps conservatories, Schenley Park, showed a fine lot of pot plants—hyacinths, tulips and narcissus of the best sorts. The best white was La Grandesse; best pink, Gertrude; best blue, Grand Lilas; best yellow, Ida. The tulips were fine; also a good collection of narcissus and a few plants of Scilla sibirica and fritillarias. Blind Bros. exhibited plants for Easter trade—fine grown Crimson Rambler, Boston and Piersoni ferns, hydrangeas, Harrisii lilies, narcissus, tulips, hyacinths, ficus, araucarias. J. Bader showed some good azaleas, of which he has a large stock

Co., all of Denver, and J. E. Braldwood, of Colorado Springs, were exhibitors. Two plants of Adiantum cuneatum and O'Brieni attracted universal attention. They were grown by Robert Kurth, foreman for the Colfax Avenue Floral Co., and were very handsome specimens. A vase of Adonis carnations, staged by E. E. Peterson, was good enough to travel in any company.

The newly elected officers are: President, J. A. Valentine, Denver; first vice-president, William Henry Evans, Colorado Springs; second vice-president, G. Fleischer, Pueblo; treasurer, R. S. Mahan, Denver; secretary, N. A. Benson, 1352 South Sherman avenue, Denver.

The by-laws were amended making florists' employees eligible to membership and changing the date of annual meeting to the second Tuesday in February each year.

THE STATE FLORISTS' ASSOCIATION OF INDIANA held its annual Spring show in the horticultural rooms at the State House, Indianapolis, Tuesday, April 4. The exhibition was very satisfactory in that a large amount of stock was shown, of exceptional quality. Much of the stock was retained by the exhibitors, but enough remained to be auctioned off to aid the project financially. Among the out-of-town exhibitors were E. G. Hill Company, W. W. Coles, Kokomo, Ind., and H. Weber & Sons, Oakland, Md. The regular monthly meeting of the society was held in connection with the show. Judges Wm. Billingsley, Frank Harritt and John Hartje awarded the following premiums:

Twelve Assorted Hyacinths—First, Fred Huckreide

variety as none other than Mrs. Robert McArthur, the club should induce Wm. P. Craig to withhold the distribution of stock until the controversy was decided. But as many orders are already shipped, and the chrysanthemum, if it is Mrs. Robert McArthur, is a good thing, the distribution will go on, leaving the question in dispute for the Chrysanthemum Society of America to decide next season.

Bowling matters were given more prominence by new blood being inserted in that committee; and in anticipation of the convention next August a tournament will soon be started. DAVID RUST.

NEW ORLEANS (LA.) HORTICULTURAL SOCIETY.—Accompanying a letter dated March 19 but which reached us on April 3, having evidently found its way to Chicago, C. W. Eichling sends us the under-noted communication, with the request that it be published with the view of bettering existing conditions:

At a meeting of the New Orleans Horticultural Society a discussion arose as to what redress the receiver of a worthless shipment of cut flowers, or plants, would have. Most of the florists receive their shipments C. O. D., without the privilege of inspection. In many cases flowers arrive in a damaged or worthless condition, the express company collects the money for them, and the receiver is the loser.

Experience teaches us that when flowers are in a condition for long distance shipment, and the proper care is taken in packing, they will arrive in good condition and will last in a good refrigerator for several days. Carnations and roses have often been held for a week in salable condition. This proves beyond a doubt that something was wrong with flowers that arrive in bad condition, with the ice compartment intact on arrival. The express company, which usually gets the blame from the shipper, is exonerated as long as a piece of ice arrives in the box. Either the flowers were not long enough in water before shipping or they were too far advanced when cut. The latter seems to be the main trouble, and can easily be avoided.

The New Orleans Horticultural Society has taken action on the question. A committee of three was appointed, to which every case is to be submitted where flowers or plants arrive in bad conditions. The committee will inspect the shipment and place the blame, if possible, and will assist the receiver of bad lots to recover his loss, be it partial or total. The names of shippers will be brought before the meeting and their methods discussed. Impartiality and justice are the principles on which the committee will act, and great improvement of condition, for which there is ample room, will be expected.

A shipper of an honest package cannot reasonably refuse inspection of goods before he demands payment. When American Beauty arrive with a purplish hue, they are ripe for the dump, and the shipper of such flowers knew full well how old they were when packed. When the outside petals of Bride and Bridesmaid are decayed and the flower opens the moment it is lifted from the box, it is time to rush it to some charitable institution as a gift, provided it does not drop before it gets there. We know that with carnations there are a number of circumstances not altogether within the control of the shipper, that may cause the flowers to go to sleep; but in many cases, loss can be avoided by careful selection for long distance shipping; and as far as New Orleans is concerned, shippers will have to be very careful in the future if they want to hold and increase their trade in the Crescent City. New Orleans is a large buyer of cut flowers, and relies for its supply entirely on the North. Not a rose or carnation is grown in New Orleans. The receiver of a bad lot cannot go to the wholesaler and buy; he is entirely helpless, loses his stock, and is unable to supply his trade. These are the conditions that compelled the New Orleans florists to take some action in the matter for mutual information and protection. Personal letters to some of the large shippers have been fruitful of good results; promises have been made which, if adhered to by the shippers, are bound to increase their New Orleans trade.

What has been said in regard to flowers holds good for plant shipments. Express rates to extreme distances are high, and a lack of judgment on the part of the shipper has cost us many a hard-earned dollar. Many a time we pay expressage at the rate of \$4 to \$5 per hundred pounds on boxes three times their necessary weight, and for balls of beautiful, rich soil, sawdust and paper, doubling and trebling the original cost of plants. And the plants themselves: How do they compare with the high-sounding adjectives in the advertisements? Our trade papers are often made the agents for unscrupulous and fraudulent shippers. It is for such cases that our committee is appointed, and no doubt its vigilance will effect an improvement in existing conditions.

THE ILLINOIS STATE FLORISTS' ASSOCIATION is the name of a new organization formed a few weeks ago, and one that is full of business. It already has a bill for an appropriation before the Legislature which bids fair to pass. Much credit will be due to the lobbying skill of the association's committee should the bill pass; they went at it like veteran politicians. To those concerned I beg to advise that the association is now duly incorporated, under the laws of the State. We already have fifty members, and solicit the application of every florist in the State of Illinois. Send same at once to H. Hasselbring, Department of Botany, University of Chicago, Chicago, Ill. JAMES HARTSHORNE.

Hydrangea Monstrosa.

Our illustration represents a house, 150x25 feet, containing 1,400 plants in 6 to 8-inch pots of Hydrangea monstrosa, at the establishment of J. W. Dudley & Son, Parkersburg, W. Va. The picture was taken April 1, 1905. Mr. Dudley says: "This variety is larger and has more vitality than any other hydrangea."



HOUSE OF HYDRANGEA MONSTROSA

Growers, J. W. Dudley & Son, Parkersburg, West Virginia

in fine shape. The Valley Greenhouses had fine pot plants of Harrisii lilies, about a dozen or more buds to each—pretty good for 9-12 bulbs from which they were grown; also cut tulips, narcissus and hyacinths. Mr. Zimmerman, of Dixmont, showed cut lilies, hyacinths, tulips and narcissus. Mr. Chandler, of T. Meehan & Sons, was a visitor at the meeting.

"Bedding Plants and Pansies" is the subject chosen for the May meeting of the club.

The answers to the queries from the question box were read by the secretary, and were most interesting, particularly one on fungus in propagating beds, and it was suggested that all should be published in the trade papers. E. C. R.

THE COLORADO SOCIETY OF FLORICULTURISTS held its annual meeting in the rooms of the State Board of Horticulture in the State House in Denver, March 24. There was a large attendance, and the enthusiasm displayed showed that the florists of the State are awakening to the value of such meetings. The papers read were "The Propagation and Culture of Roses Under Glass," by J. A. Sked; "Colorado Soils," by Professor Longyear, of the State Experiment Station; "Hardy Roses and Their Usefulness for Various Phases of Gardening," by John Berry, and "Dahlias; Past and Present," by W. W. Wilmore, the well known dahlia specialist. The discussions following these papers were very interesting, especially upon the manner of caring for hardy roses in winter and the destruction of insect pests. The discussion concerning growing American Beauty a second year under glass, brought out the fact that Bernhard Boldt had exceptional success in that line the past season. A vase of this variety exhibited by Mr. Boldt grown from these two-year-old plants were a very fine lot.

There was a fine exhibit of carnations and roses. The Colfax Avenue Floral Co., N. A. Benson, Mrs. R. Mauff, E. E. Peterson, Bernhard Boldt and the Park Floral

& Son; second, Henry Rieman. Two Pans Tulips—First, Bertermann Bros. Co.; second, Fred Huckreide & Son. Six Cinerarias—First, Bertermann Bros. Co.; second, Henry Rieman. Six Cyclamen—First, Bertermann Bros. Co. Six Primulas—First, Henry Rieman; second, Bertermann Bros. Co. Three Azaleas, pots not to exceed 8 inches, and two Lilac Plants—Bertermann Bros. Co. were first and Henry Rieman second in both classes. Henry Rieman was first in the class for two spiræas; Fred Huckreide & Son second. For general display covering 24 square feet of space, Bertermann Bros. Co. was first; second, Henry Rieman. Twelve White Roses—W. W. Coles took first prize with Ivory; second with Kaiserin Augusta Victoria. Twelve Red Roses—W. W. Coles, second. Twelve any other color—First, E. A. Nelson; second, W. W. Coles. Twenty-five White Carnations—First, Baur & Smith; second, E. G. Hill Co. Twenty-five Pink Carnations—First, John Hartje; second, Baur & Smith. Twenty-five Red Carnations—First, E. G. Hill Co. Twenty-five any other color—First, John Hartje; second, Bertermann Bros. Co. Twenty-five blooms Daffodils—First, Bertermann Bros. Co.; second, F. Huckreide & Son. One Hundred Blooms Sweet Peas—First, Baur & Smith. I. B.

PHILADELPHIA FLORISTS' CLUB.—Those who came to the meeting on Tuesday last were disappointed in not getting wise about what kind of coal to burn; the essay committee and the essayist did not mutually understand each other. But we got the worth of our money about chrysanthemums. Wm. P. Craig has the sole agency for Henry Faust's white variety Dorothy Faust, recognized as the best flower for use from November 15 to December 15. Henry Eichholz, of Waynesboro, Pa., wrote the club that, inasmuch as some experts had proclaimed this

Review of the Market

NEW YORK.—The cut flower trade is in anything but a settled condition, and prices are not at all what they should be for the quality of stock available.

Violets, also, are a drug, and it does not seem that enough money is got out of some of them to cover the express charges. The peddlers offer 75c. per 1,000 and store keepers are using but limited quantities.

BOSTON.—Comparatively quiet business has been the general ruling for the past week. While prices have remained low, yet there has been a general cleaning up of stock during the latter part of the week.

CARNATIONS, always selling flowers, hold their own very well; the quality is superb and prices run generally from 1c. to 3c., with 4c. and 5c. for fancies. Bulbous stock of all kinds is plentiful, but prices remain remarkably firm for these flowers.

CHICAGO.—A season of Summer dullness seems to have settled over business. Starting in a week ago, a decided decline in prices has occurred, and from present prospects will continue until the Lenten season is over.

AMERICAN BEAUTY roses are in sufficient quantities to meet all demands; extra fancy stock is selling well, but other grades move slowly, at low prices. The supply of Bride and Bridesmaid is far in excess of the calls; prices have fallen considerably since last report, and from all appearances will remain as now.

PITTSBURG, PA.—Trade in cut flowers has been very dull lately, and everyone is looking forward to the end of Lent when something better is expected by all. Even funeral work has not been over-abundant lately.

ST. LOUIS.—The over-supply and low prices reported in last issue still exist, and there seems no relief in the near future. Some of the retailers are taking advantage of the low rates, and are offering stock at tempting figures in order to stir up some activity in transient trade.

INDIANAPOLIS.—Unseasonable weather is still with us. Trade is fairly good, but cannot come near being equal to the supply of stock at present, which beats all records for the first of April.

WASHINGTON, D. C.—Business shows a slight improvement over that of last week, yet the supply is greater than the demand, which keeps prices at low ebb. Extra fine American Beauty could be had at from \$3 to \$7 per dozen, while fine Kaiserin Augusta Victoria, Souvenir du President Carnot, Bride, Bridesmaid, Ivory, Meteor and Golden Gate brought from \$1.50 to \$2 per dozen.

WASHINGTON, OHIO.—The Washington Floral Gardens, comprising three acres of ground, on which are extensive greenhouses, have been sold by Mr. and Mrs. Helfrich to Robert Buck, of Greenfield, for \$5,000.

LOS ANGELES, CAL.—Miss Ethelind Lord has opened a flower store at 328 West Third street.

HUDSON, MICH.—John Allwood, of Hancock, Mich., has purchased the greenhouse of P. Thomas, and will move his family to this place. Continued poor health was the cause of the retirement from business of Mr. Thomas, who will move to Quincy.

GREENSBURG, IND.—The greenhouses here, operated by Draper & Clark and The Greensburg Floral Company, formerly owned by Mrs. Demer, but recently sold to Henry Bentlage, of Wisconsin, have consolidated under the name of Clark & Bentlage. Ira Clark, who is well acquainted with the business in Greensburg, will have charge of the trade, and Mr. Bentlage, who is an experienced grower, will look after the greenhouses.

BALTIMORE, MD.—Glut is about the best word to express the condition of the market this week; it is simply impossible to unload at even extremely low prices. The Exchange has hardly room to-day (Wednesday) to handle the stock without throwing out the flowers left over for one day.

NEW BEDFORD, MASS.—Trade is very dull, with a little funeral work to help out matters. Carnations and roses are coming in in fine shape. Violets are about over, a few from outside frames being of very good quality.

CINCINNATI, O.—The less said about business the better. Stock simply poured in all last week, and the demand failed to provide an outlet, so that a very severe loss was the consequence.

CLEVELAND, O.—Bulbous stock is coming right along. Plenty of fine tulips, daffodils, Roman hyacinths and kindred stock, is available. Roses are looking especially well. The store windows are very attractive now.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

ROCKLEDGE, FLA.—A. L. Hatch has discontinued his business here and will remove to Christmas, Orange County, Fla. He does not expect to resume at that point.

SUFFERN, N. Y.—Percival Van Orden has decided to discontinue his greenhouse work here.

WASHINGTON, OHIO.—The Washington Floral Gardens, comprising three acres of ground, on which are extensive greenhouses, have been sold by Mr. and Mrs. Helfrich to Robert Buck, of Greenfield, for \$5,000.

LOUISVILLE, KY.—The Maxwell Manufacturing Company have succeeded the Tobacco Warehousing and Trading Company.

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FIRMS WHO ARE BUILDING.

FAIRBURY, ILL.—Krug Bros. are erecting a large greenhouse for carnations.

PARK RIDGE, ILL.—Emil Buettner will build ten new greenhouses. The contract has been awarded to B. V. Morris, of Des Plaines, Ill.

BAY CITY, MICH.—Boehringer Bros. have broken ground for the erection of three additional greenhouses, each 19x100 feet.

KENNETT SQUARE, PA.—Walter Scarlett is building new greenhouses on his premises in West State street.

Two Points of View.

The following lines were received by A. Dallas, Waterbury, Conn., after filling with seeds one of his store windows, which previously had contained flowers and plants:

THE CITY WOMAN.

But yesterday this window was A bower of red and green; A restful spot, for those who passed, Amid the busy scene Of toil and hurry, one bright spot Of beauty here was placed— But now how changed—by bags of beans This beauty is effaced!

THE FARMER.

I don't deny them flowers was nice; I kinder liked to see 'Em blow'n' there as I went by. But then, it seems to me That Winder now looks mighty nice, With all them bags of beans, Because they speak of plantin' time— You can't eat reds an' greens.

THE CITY WOMAN.

How sordid! how devoid of sense, Of beauty you must be, To think of naught but planting beans, When birds on every tree Are singing loud the songs of Spring. When flowers would lift the soul To thoughts of what is pure and high; Don't grovel like a mole.

THE FARMER.

I ruther guess if you should come To see me at our farm, Next Summer, when the beans are growed, It wouldn't do no harm; I ruther guess that you would eat With relish, them same beans, An' wouldn't even stop to think Of birds, an' reds, an' greens.

Has Cut Out All Others.

Have cut out all magazines and papers this year to economize, but can't do without your paper. Mass. F. G. BROWN.

A Sensible Subscriber.

I like The Exchange very much, and as long as I am in business I hope to be a subscriber. RICHARD MAGERRALL, Nova Scotia.

BLACK STUFF FINE TOBACCO POWDER (For Sprinkling)

STRONGER and FINER

than others. Our free five-pound trial bag costs nothing more than the express charge on it. Our booklet tells what your brother growers think of it. We mail one on request.

THE H. A. STOOHOFF CO.

TOBACCO POWDER HOBBYISTS 116 WEST ST., N. Y. CITY

Mention the Florists' Exchange when writing

CHRYSANTHEMUMS

Ready from Soil. All Good Stock, in Fine Condition

White		White		Pink		Yellow		Yellow	
	Per 100		Per 100		Per 100		Per 100		Per 100
Estelle	2.00	White Mayflower	2.00	Cobbolt, new	3.00	Monrovia	2.00	Wm. Thirkell, new	3.00
Kalb	2.00	Ivory	2.00	J. A. Balfour, new	3.00	Yellow Eaton	2.50	W. T. Pockett, new	3.00
Robinson	2.00	Jerome Jones	2.00	Perrin	2.00	Major Bonnafton	2.00	Kimberly, new	3.00
Polly Rose	2.00			Marie Liger	2.00	Col. D. Appleton	2.00	H. S. Vallis, new	3.00
Wanamaker	2.00	Pink		Lavender Queen	2.00	Yellow Jones	2.00	Omega	2.00
Eaton	2.50	Duckham	8.00	Richardson	2.00	Yellow Mayflower	2.00		Red
White Bonnafton	2.00	Pink Ivory	2.00	Murdock	2.00	Golden Beauty	2.00	Oakland	2.50
Snow Queen	2.00	M. Newell	2.00	Vivian-Morsel	2.00	Mournier	2.00	M. Paul Labbie	2.50
Harry Plumridge, new	3.00	J. K. Shaw	2.00	Yellow-October Sunshine	2.00	Golden Wedding	2.50	Black Hawk	2.50

Write for Prices on Chrysanthemums in Larger Quantities

CARNATIONS

All in Fine Condition Well Rooted

PINK.		RED.		WHITE.		CRIMSON.	
	Per 100		Per 100		Per 100		Per 100
Mrs. T. W. Lawson	\$1.50	Estelle	2.50	Flora Hill	1.00	Harlowarden	2.00
Guardinn Angel	1.00	Chicago	2.00	White Cloud	1.25		
		CRIMSON.					

ROSES

Young Stock, ready to ship, out of 2 1/2 in. pots. Fine, Healthy Stock

		Per 100		Per 1000	
Brle	\$3.00	Golden Gate	\$3.00		
Bridesmaid	3.00	Mme. Abel Chatenay	3.00		
Meteor	4.00	Kaiserin	4.00		

WIETOR BROS., 51-53 Wabash Avenue, CHICAGO, ILL.

Mention the Florists' Exchange when writing.

Grafted Roses

Bridesmaid, Bride, Bon Silene and Safrano. \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbolt, \$2.50 per 100. STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses NEWTONVILLE, MASS.

Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists RICHMOND, IND. Mention the Florists' Exchange when writing.

Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

Chrysanthemums

Rooted Cuttings Lord Hopstoun, Ben Wells, Alice Byron, Letta Filkins, E. Bonnetford, Cecil Cutts, Vivian-Morsel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Nellie Pickett, Percy Plumridge, A. J. Balfour, M. Lamond, Thirkell, White Bonnafton, Mrs. Chamberlain, C. H. Diederichs, Dr. Enguehard, Cheltoni, Ida Barwood, S. T. Wright, Chevrant \$3.00 per 100. Monrovia, Willowbrook, Omega, Oph, Bonnafton, Mrs. Jerome Jones, Yellow Jones, Col. Appleton, Timothy Eaton, Yellow Eaton, Mrs. Robinson, Lady Harriatt, Halliday, F. S. Vallis, Mrs. Coombes, Cluna, Mrs. T. M. Pockett, Marie Liger, M. Douillet, Paul Sahut, R. H. Pearson, Dalekov, Ivory, Bocaase, M. Richardson, Tancréd Baatet, Fee Du Champ-saur, Mrs. Ferrin, Mrs. Weeks, Col. Powell, Mayflower, C. J. Salter, White Maud Dean, Golden Wedding, Marian Newell, Mounier, \$2.00 per 100.

CARNATIONS

ROOTED CUTTINGS		Per 100		Per 1000	
Lady Bount	3.00	Mrs. Patten	8.00		50.00
Fol	3.00	Enchantress	3.00		25.00
The Belle	6.00	Boston Mark	2.50		20.00
Flamingo	6.00	Lawson	1.50		12.50
Nelson Fisher	6.00				

PERNS—Boston Ferns, 2 1/2 in., \$4.00 per 100; 6 in., \$40.00; 7 in., \$30.00.

W. J. & M. S. VESEY, Fort Wayne, Ind. Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION

Price, \$3.50

FLORIST'S EXCHANGE, 2 DUANE ST., NEW YORK

CHRYSANTHEMUMS

Rooted Cuttings from cool grown stock of the following varieties

AMERICAN BEAUTY, globular, dark pink; Wm. DUCKHAM, DR. ENQUEHARD, \$4.00 per 100.

MERRY MONARCH, white and yellow; W. LLOWBROOK, POLLY ROSE, PACIFIC, R. HALLIDAY, IVORY, ROBINSON, NELLIE POCKETT, BONNAFTON, YELLOW EATON, LINCOLN, MAUD DEAN, MERRY CHRISTMAS, \$1.50 per 100; \$12.50 per 1000.

Cash with order, please.

G. F. NEIPP, Jamaica P. O. Aqueduct, L. I., N. Y.

Mention the Florists' Exchange when writing.

Chrysanthemums

Dr. Enguehard, Mrs. T. W. Pickett, Cheltoni, Mrs. C. J. Salter.

Transplanted cuttings from soil, \$5.00 per 100. Rooted cuttings from sand, 4.00 per 100.

Wm. Duckham, Alice Byron, Goldmine, Carrington, Yellow Jones, Yellow Eaton, A. J. Balfour, Merry Christmas, W. Bonnafton.

Transplanted cuttings from soil, \$4.00 per 100. Rooted cuttings from sand, 3.00 per 100.

Mutual Friend, Nellie Pickett, O. S. Kalb, Bergman, Mrs. J. Jones, Mrs. H. Robinson, Eaton, White Ivory, Polly Rose, McArthur, Whillidin, Halliday, Bonnafton, Marion Henderson, Appleton, Golden Wedding, W. H. Lincoln, Mrs. Chamberlain, Pink Ivory, J. K. Shaw, Maud Dean, President Smith, Helen Bloodgood, Glory of the Pacific, The Harriot, Intensity, Black Hawk.

Transplanted cuttings from soil, \$2.00 per 100. Rooted cuttings from sand, 1.50 per 100.

CARNATION CUTTINGS

Queen Louise, F. Joost, Challenger, \$1.50 per 100, \$12.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Prosperity, Fair Maid, \$2.00 per 100, \$15.00 per 1000; Harry Penn, Harlowarden, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.00 per 100, \$25.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000, 250 at 1000 rate.

ROOTED COLEUS CUTTINGS

Golden Bedder, Firebrand, Verschaftell and mixed colors, 75c. per 100, \$6.00 per 1000.

ROSES

2 1/2 in. pots, \$3.00 per 100, \$25.00 per 1000.

Bride, Bridesmaid, Ivory and Golden Gate.

GRAFTED ROSES

On imported English Manetti Stock, nothing but flowering wood used. Bride and Bridesmaid, Golden Gate, \$10.00 per 100; \$100.00 per 1000. Liberty, \$12.00 per 100; \$120.00 per 1000.

JAMES E. BEACH, 2019 Park Avenue, BRIDGEPORT, CONN.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

BEST COMMERCIAL VARIETIES Per 100 Strong Plants, 2 1/2 in. \$2.00 Vinca Var., R. C., \$1.00; 2 1/2 in. \$2.50 Violet, Princess Wales, R. C. 1.00 Carnation, R. C. \$1.50 to 3.00 Write for List at once.

SMITH & GANNETT, Geneva, N. Y.

THE MONEY-MAKING CHRYSANTHEMUMS ARE

POMPONS

They are becoming very popular, and a necessity to every florist. To reduce a large stock WE MAKE THE FOLLOWING OFFER, for only a few days:

Our Selection from the Best Varieties for Florists' Use, \$2.50 per 10; \$20.00 per 1000.

NATHAN SMITH & SON, - Adrian, Mich. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

ROOTED CUTTINGS

It is cheaper to buy rooted cuttings now than pot plants next month.

Per 100		Per 1000	
Wm. Duckham	\$3.00	Miss Alice Byron	\$2.00
Black Hawk	1.50	Nellie Pickett	2.00
Appleton	1.50	Mrs. Coombes	1.75
Cremo	1.50	Mrs. H. Robinson	1.75
Dazzler	2.00	Mutual Friend	1.50
Glory of Pacific	1.50	October Sunshine	1.50
Lady Fitzwygram	1.50	Polly Rose	1.75
Bonnafton	1.50	Timothy Eaton	1.75
Maud Dean	1.75	White Bonnafton	1.50

GRAFTED BRIDE AND BRIDESMAID ROSES \$10.00 per 100; \$100.00 per 1000. EDW. J. TAYLOR, SOUTHPORT, CT.

Early Struck Plants OF EARLY 'MUMS

\$2.50 per 100

(For Complete List of New and Old Varieties send for catalogue.)

CARNATIONS		Sturdy Little Pot Plants from Best Cuttings	
Boston Market	\$2.50 per 100	The Queen	\$3.00 per 100
Gov. Wolcott	3.00	Geo. H. Crane	2.50
Indianapolis	4.00	Glacier	2.50
Mrs. E. A. Nelson	2.50	Lorna	2.50
Mrs. Lawson	2.50	Flora	2.50
		Cardinal	12.00

SMALL PALMS, from 2 1/2 in. pots	
Kentia Belmoreana	\$2.00 per 100
Areca Lutescens	4.00
Latania Borbonica	3.00
Coccoloba Weddelliana	8.00

The Storrs & Harrison Co. PAINESVILLE OHIO

Mention the Florists' Exchange when writing.

April Prices

CARNATIONS

QUEEN LOUISE, from soil	Per 1000	\$10 00
QUEEN LOUISE, from sand		7 50
FLORIANA, from sand		7 50
HARRY FENN, from sand		10 00
NELSON, from sand		10 00

GERANIUMS SMILAX ASPARAGUS

Send for Summer List. I have this stock by the 100,000.

ALBERT M. HERR, Lancaster, Pa.

Mention the Florists' Exchange when writing.

H. WEBER & SONS

announce the completion of arrangements whereby they will, beginning in January, 1906, disseminate jointly with

THE E. G. HILL CO.

THEIR TWO GRAND NEW CARNATIONS

MY MARYLAND AND JESSICA

MY MARYLAND is already well and favorably known, having been exhibited freely at the various flower shows and florist club meetings the past Fall and Winter, and in every case elicited the highest praise and most favorable comment. We pick this variety to quickly and easily displace all other whites for first honors, not alone in exhibition, but in commercial points as well. We claim for it a robustness of constitution quite unequalled in any other variety and an ease of culture that will delight the heart of the grower. The great vigor of both parents (Norway x Lawson) seems united and improved upon in this variety.

In **JESSICA** we have in the red and white variegated class, what My Maryland will prove among white. It is descended through several generations of variegated seedlings of Heiss Keller and Bradt extraction on the one side and Lawson on the other. A strong, thrifty growing variegated seedling bearing the seed. It is a trifle heavier in growth than My Maryland and just Lawson height. Aside from these differences and the color, the description of My Maryland applies to Jessica. Under favorable conditions four inch blooms are not uncommon. We pick Jessica to win over any other variegated variety.

Both of the above are free propagators. We are thoroughly familiar with them and know what they will do. We will be in a position to deliver stock early and on time, and assure the trade that no disappointments will result on that score.

We have already booked many orders. It pays to be early. Orders booked are subject to cancellation by the buyer if unsatisfied with either variety, up to the time the cuttings are received.

Price: \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

West of Pennsylvania address, **THE E. G. HILL CO., Richmond, Ind.**
East of Ohio address, **H. WEBER & SONS, Oakland, Md.**

Mention the Florists' Exchange when writing.

NOW READY

WHITE LAWSON

Flamingo Nelson Fisher Crusader

\$6.00 per 100; \$50.00 per 1000.

The Three Grand New CHRYSANTHEMUMS,

MAJESTIC, ADELIA and MADONNA

Rooted Cuttings, \$3.00 per doz.; \$15.00 per 100. From 2 in. pots, \$20.00 per 100.

Three Fine SNAPDRAGONS,

Our GIANT PINK, a Grand WHITE and a Fine YELLOW

\$6.00 per 100; \$50.00 per 1000.

The Fine New PINK ROSE LA DETROIT

2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1000.

The New Red GENERAL MACARTHUR

2 1/2 in. pots, \$8.00 per 100; \$75.00 per 1000.

JOHN BREITMEYER'S SONS, DETROIT, MICH.

Mention the Florists' Exchange when writing.



Carnation Breeding.

(C. W. Ward, before the Breeders' Association, at Champaign, Ill.)

The present carnation with which we are working is the product of several centuries of culture and hybridization. It is an open pollinated species and mother plants can be used both from the hybrid plants as well as inbreeding upon the same plants, or upon the same variety. Once secured from seeds a variety is easily perpetuated by propagation from cuttings, which are secured in abundance and may be easily rooted. Improvements in varieties may be made by bud selection and bud variation as well as from seed variation, due to hybridization. In raising varieties from hybridized seed very few improved sorts are produced, the proportion being about one good variety for each one thousand hybrids grown.

Up to the present time, I have been breeding for color alone, basing my work upon the theory that any laws developed in color work would hold good when applied to the development of other desired qualities.

The tools which I use in my work are very simple indeed, consisting of a pair of delicate tweezers and a microscopic magnifying glass. The method employed is to find the anther just bursting, so that the pollen is in a condition of dry powder. The anther is removed by means of the tweezers, and the pistil of the flower desired to be fertilized is lightly touched along its entire length by the pollen bearing anther.

In order to do my work with reasonable method, I have divided it into sections as follows:—Crimson section, comprising crimsons or scarlet-maroon in color; dark pink section which comprises all rose, cherry and deep pink tones; light pink section which comprises the light salmon or Daybreak tints; scarlet section, which comprises all of the colors which may be termed red or scarlet; white section, comprises only the creamy white and snow white tints; yellow section, yellow variegated with scarlet, crimson or pink upon yellow grounds, as the yellow varieties are almost invariably marked with pink, scarlet or some other tint; white variegated section, comprises varieties of a light pink with scarlet or crimson markings. The blue section comprises varieties showing some tendency toward the blue in color. This latter section has not as yet produced anything that might be termed a blue, as invariably there is enough pink in the make up of the color to shade the tone into purple or mauve. The crimson, dark and light pink, scarlet and white sections have been fairly well fixed, but the yellow, white and pink variegated and blue sections will be very difficult to fix, as they are essentially mosaics and there is a constant tendency towards variation in all hybrids produced from them.

The bulk of my profitable varieties can practically be traced to the variety General Maceo, which was the result of a cross between the English variety, Winter Cheer, and Mr. Dornier's American variety, Meteor. The original plant of Maceo had a very peculiar habit, being almost a climber, and was dug from the frozen ground after all supposed good sorts had been taken into the field, its only recommendation being an intensely colored large bloom on a plant having a habit somewhat resembling a creeping grape vine in growth, but by selection from bud variations, it was built into an immensely profitable commercial variety.

In hybridizing carnations we sometimes meet with what is termed seed

J. D. THOMPSON CARNATION CO.

JOLIET, ILL.

Carnations Our Specialty

Mention the Florists' Exchange when writing.

Carnation Cuttings

Guaranteed in every particular	
Enchantress	\$3.00 per 100
Mrs. M. A. Patten	5.50 "
Queen Louise	1.50 "
Mrs. Joost	1.25 "
Cash with order from unknown parties	

T. KRAFT, 135 Johnson Ave., Newark, N. J.

Mention the Florists' Exchange when writing.

Carnations

F. DORNER & SONS CO.

LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

The Lewis Conservatories

MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist

Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

Flamingo, scarlet	Per 100	\$6.00
Albatross, white		5.00
Enchantress		3.00
Queen, white		3.00
Boston Market, white		3.00
Queen Louise		2.00
Lawson		2.00
J. H. Munley, scarlet		2.00
Challenger		2.00
Write for prices on large lots. 5 per cent. discount for cash with order.		

JAMES D. COCKCROFT, Northport, N. Y.

Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

WHITE	Queen	per 100	1,000
	Queen Louise	\$2.50	\$20.00
PINK	Enchantress	2.00	15.00
	Lawson	2.00	15.00
CRIMSON	Fair Maid	2.00	15.00
	Harlowarden	2.50	20.00
VARIEGATED	Judge Hinsdale	4.00	
	Prosperity	2.00	15.00

S. J. REUTER, Westerly, R. I.

Mention the Florists' Exchange when writing.

FOR IMMEDIATE DELIVERY

Carnations from Soil

Red Lawson, \$10.00 per 100; White Lawson, \$5.00 per 100. The Queen, \$2.00 per 100.

Chrysanthemums

Helen Frick, John Burton, \$5.00 per 100; 2 in. pots. William Duckham, Dr. Enguehard, Paoli Radeili, Anurita, from 2 in. pots, \$3.50 per 100; \$25.00 per 1000. Eaton, Robinson, Ivory, Polly Rose, Mrs. Coombes, Appleton, Balfour, Shaw, Jones, white and yellow, etc., \$20.00 per 1000, from 2 in. pots. Rooted cuttings, \$12.50 per 1000; unrooted cuttings, 7.50 per 100.

Geraniums

Double Dryden, the best of all recent novelties, 2 1/2 in. pots, \$6.00 per 100; 4 in., \$8.00 per 100. Assorted novelties of recent years, 2 1/2 in. pots, \$1.00 p 100; 4 in \$3.00 per 100.

Hardy Phloxes

We were awarded a Silver Medal for our St. Louis exhibit of Hussack and Cranwell. Field grown plants, \$1.00 per doz.; \$7.50 per 100.

CASH PLEASE

HENRY EICHHOLZ, WAYNESBORO, PA

Mention the Florists' Exchange when writing.

ROSES CHRYSANTHEMUMS CARNATIONS

Grafted and own root stock of leading and choice varieties. We call especial attention to our

General assortment of well-known and standard varieties.

Rooted cuttings now ready of all reliable and well-known varieties.

KILLARNEY Rooted Cuttings Now Ready A. N. PIERSON, Cromwell, Conn.

Mention the Florists' Exchange when writing.

sports. These have been invariably light pink varieties (more or less marked with crimson edgings and stripes), that have been produced by crossing crimson sorts which had comparatively pure crimson pedigrees for several generations.

Aside from its commercial importance, there is a sentimental side to carnation growing. The production of new hybrids, which are distinct improvements upon existing sorts, is always a pleasure and serves to keep one thoroughly interested in the Divine Flower, and amply repays for the close application necessary to produce practical improvements.

How I Commenced Carnation Culture.

Some fourteen years ago while walking down Broadway in New York City, a Greek flower peddler pushed under my nose a bunch of clove scented carnations. The delicious fragrance reminded me vividly of the old home garden with its little plots of Paisley pinks, and I became at once interested in the blooms. Being at that time out of business, I took up the growing of carnations, believing that if chrysanthemums, roses and other flowers could be improved by hybridization and culture, the carnation ought to respond to similar methods; and in this view later experience proved I was not at fault.

Commercial Importance of the Carnation

At the present time the commercial value of the carnation grown in this country has risen so that the calling may be considered one of the substantial professions. The annual value of the carnation product reaches five to six millions of dollars when we consider both the sales of plants and flowers, and the capital invested possibly may amount to fifteen to twenty millions of dollars, taking into consideration the value of the real estate and buildings devoted to carnation culture.

The improvement in the carnation which has resulted in giving us flowers three times the size that they ordinarily were, with stems four to five times as long, has produced a general advance in the price of the carnation which seems to keep pace with the increased demand. When I first undertook the growing of the carnation, fifty cents to one and two dollars per dozen was considered the retail price. At present two, three, six, sometimes eight and, in rare instances, ten dollars per dozen is secured. When I first entered the business fifty cents to one dollar up to four dollars per hundred as the maximum price were the wholesale rates. At present two, four, six, eight, ten to fifteen dollars are ruling prices, and at certain seasons as high as twenty-five dollars per hundred are secured for the best and most perfect blooms.

We have about two acres under glass devoted to carnation growing, the annual sales from which run from \$30,000 to \$36,000, netting a fair annual profit of \$10,000 to \$12,000.

Much has been said and written about the value of a single variety of new carnation. So far, I am informed, at least five varieties have been sold on a basis of \$8,000 to \$10,000 per variety. One at least upon a basis of \$20,000 for the variety, this being the scarlet sort, Robert Craig, one of my own seedlings, a half interest in which was sold last year for \$10,000, and the Mrs. Lawson, which netted as much as the Robert Craig. The Robert Craig variety will not be disseminated until the season of 1906, and already orders have been entered for some 375,000 plants, which will probably be

increased to 400,000 plants before the season of dissemination is closed.

Naming Carnations.

The naming of a new carnation is quite a puzzle to the originator and he usually selects the name of some beautiful lady, some particular friend, some important personage, a bird, the names of planets or something that will serve to describe, or produce an impression of the characteristics of his flower. In naming my own productions, I have honored the varieties with such names as Governor Roosevelt, The President, Mrs. Roosevelt, Viola Allen, J. H. Manley, Robert Craig and the Cuban Patriots, General Maceo and General Gomez.

The Carnation in Politics.

The carnation has frequently been used in a political sense. It was the McKinley emblem and the campaign flower during the campaign which elected McKinley and Roosevelt, and during that campaign the various carnation growers throughout the country donated many thousands of flowers to decorate the buttonholes of those marching in the political parades. At the present time, the American Carnation Society decorates the grave of the lamented President McKinley with carnations each year on the 29th of January.

The carnation is extensively used as a decorative flower. It lends itself to almost every use in which flowers are suitable. Its varied and delicate colorings, its magnificent pungent refreshing odor, and its long keeping qualities render it probably the most valuable of all florists' flowers.

RED SPORT CARNATION

The great "bread and butter" holly-berry pink. Early and continuous, sure crop for Christmas, never splits, strong healthy grower. 2 1/2 to 3 in. flower on a long wiry stem that well supports the blooms; an easy doer and an all around money maker. "Nough said." Price, immediate delivery, 12 for \$1.50; 25 for \$2.50; 50 for \$4.00, all postpaid. \$6.00 per 100; \$60.00 per 1000.

Queen Louise The standard white, strong healthy, well-rooted stock \$1.25 per 100, postpaid; \$10.00 per 1000.

We Guarantee Satisfaction.

A. B. DAVIS & SON, Carnation Specialists, Purcellville, Va. Mention the Florists' Exchange when writing.

ROOTED Carnation Cuttings

Table with columns for variety (Pink, Red, White), quantity (100, 1000), and price (\$3.00, \$25.00, etc.).

MISCELLANEOUS Judge Hinsdale 4.00 Mrs. Patten 6.00 Prosperity 2.50 Harlowarden 3.00 Can furnish Cuttings of all the Standard Varieties THE LEO NIESSEN CO. 1217 Arch St. Philadelphia Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS. FINE HEALTHY STOCK

Ready Now. Orders Booked for Future Delivery

Table listing carnation varieties like White Lawson, Lady Bountiful, Mrs. M. A. Patten, etc., with prices per 100 and 1000.

GWN ROOT. FINE STOCK. Bride, Bridesmaid, Golden Gate. \$4.00 per 100; \$38.00 per 1000.

VERBENAS

Beet Mammoth, rooted cuttings... \$1.00 1000 \$8.00

CHRYSANTHEMUMS ROOTED CUTTINGS

Send for catalogue for varieties and prices.

MISCELLANEOUS

Table listing miscellaneous plants like Ageratum, P. Pauline, Achyranthus, etc., with prices.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as desired. Bride, Bridesmaid, Golden Gate, from 2 1/4 inch pots, \$12.00 per 100. Killarney, \$18.00 per 100; Franz Deegen, from 2 1/4 inch pots, \$15.00 per 100.

WOOD BROS., Fishkill, New York

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BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

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The following "Culturals" are now ready:

Table listing various plants like AMARYLLIS, ANNUALS FROM SEED, ASPARAGUS, etc., and their uses.

PRICE LIST

500 Cultural Directions for \$1.50 Printed on white paper, clear type, size 6 x 9 1/2 inches, in an assortment, your selection, of not less than 100 of each, delivered carriage paid. 1,000 \$2.50

Sufficient space will be left at the bottom of each leaflet for your name, address, etc. If you desire this imprint (3 lines) we will put same on for you, at 60 cents for 500, 75 cents for 1000. Special quotations will be made on quantities of 10,000 "CULTURALS" or over.

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Prompt Payments.
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ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

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To be disseminated 1906. Also a complete line
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Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

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55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Consign-
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CATTLEYS, GARDENIAS, VIOLETS, ROSES, CARNATIONS and all Seasonable
Novelties. We employ competent florists in our pack-
ing department, and owing to our long experience in shipping we guarantee out-of-town customers that they
will not be disappointed when placing their order with us. Telephone, 2065 Madison Square

W. CHORMLEY

WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
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{2201 Madison Square

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A. BEAUTY, fancy—special	10.00 to 15.00	Int'r grades, all colors.....	.50 to .75
" extra	8.00 to 10.00	White.....	.75 to 1.00
" No. 1	5.00 to 8.00	Pink.....	.75 to 1.00
" No. 2	3.00 to 4.00	VARIETIES {	
" No. 3	1.00 to 2.00	Red.....	.75 to 1.00
Brides, 'Maid, fancy—spe'	3.00 to 5.00	Yel. & Var. ....	.75 to 1.00
" extra	2.00 to 3.00	White.....	1.50 to 2.00
" No. 1	1.00 to 2.00	Pink.....	1.50 to 2.00
" No. 2.....	.75 to 1.00	Red.....	1.50 to 2.00
Golden Gate.....	1.00 to 6.00	Yel. & Var.	1.50 to 2.00
Liberty.....	8.00 to 20.00	NOVELTIES {	
Meteor.....	1.00 to 5.00	LILY OF THE VALLEY.....	2.00 to 3.00
Mme. Abel Cbatenay.....	1.00 to 6.00	ordinary.....	1.00 to 2.00
ADIANTUM.....	.50 to .75	fancy.....	4.00 to 6.00
CROWNANUM.....	1.00 to 1.50	NARCISSUS, Paper White.....	1.00 to 1.50
ASPARAGUS.....	25.00 to 50.00	Ordinary Yellow....	.25 to 1.00
Sprengerl, bunches	10.00 to 25.00	Double Yellow.....	1.00 to 2.00
CALLAS.....	4.00 to 6.00	PANSIES, per dozen bunches....	.35 to .50
CATTLEYS.....	50.00 to 60.00	ROMAN HYACINTHS.....	1.00 to 1.50
DAISIES.....	.50 to 1.50	SMILAX.....	10.00 to 20.00
FAEESIAE, per bunch.....	1.10 to .25	STOCKS, per bunch.....	.10 to .25
LILAC, per bunch.....	.50 to .60	SWEET PEAS.....	.50 to .75
LILIES.....	8.00 to 8.00	TULIPS.....	1.00 to 2.00
		speciale.....	.15 to .20
			.20 to .40

WALTER F. SHERIDAN

Wholesale Florist
Telephone, 902 Madison Square 39 WEST 28th ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
Meteor, Lily of the Valley, Carnations
Telephone, 1998 Madison Square JOHN I. RAYNOR, 49 West 28th St., NEW YORK

EDW. C. HORAN

55 West 28th Street
Telephone, 421 Madison Square NEW YORK
CUT FLOWERS AT WHOLESALE
Mention the Florists' Exchange when writing.

Washington, D. C.
Effects of Past Winter.
The past Winter has been one of the longest and coldest that we have experienced in Washington for many years, yet, strange to say, apparently deciduous trees and evergreens have not suffered nearly so much as they did the preceding Winter. The weather during the latter part of March was more like that of May, which has caused the deciduous trees and shrubs to advance rapidly. Forsythias and several of the early varieties of magnolias are in bloom. This condition makes the Spring planting period much shorter than in places further north of us.
Park Planting.
George H. Brown, the landscape gardener of Public Buildings and Grounds, has a large force of men at work, making new plantings in Potomac Park. This is one of the series of parks that have been reclaimed within the last few years from the Potomac River, and the only one so far that has been improved. It has a speedway along the river front for about a mile in length, which cost in the neighborhood of \$70,000. Mr. Brown, who has been in his present position for many years, has remodeled all the older parks that were laid out by Downing, and the newer ones are his own creations. Of these parks, all visitors to Washington are loud in their praise, but when Mr. Brown gets through with Potomac Park it will be an object lesson in landscape gardening worthy of emulation. Those who come to the convention, who make park plantings a study, will do well to pay this park a visit. M. C.

St. Louis.
News Notes.
Arnold Ringler, salesman for W. W. Barnard & Co., Chicago, is with us this week.
George M. Kellogg, of Pleasant Hill, Mo., spent Sunday in St. Louis.
Among the florists who will act as judges of election to-day (Tuesday) are Theo. Miller, F. Kalish, C. C. Sanders, J. J. Beneke, Robert Beyer, George Windler and Charles Juengel.
Ed. Buechel, manager of the Riessen Floral Company, is around, but still on crutches.
The wholesale house of George Augermuller has opened up for business at 1324 Pine street, and is receiving some fairly good stock of all kinds.
The meeting of the Florists' Club will take place next Thursday afternoon at 2 o'clock, in Odd Fellows' Building. President Juengel expects a large attendance, as some very important matters will come up for discussion. ST. PATRICK.

All Choice Cut Flowers in Season
ALFRED H. LANGJAHR
55 West 28th St., New York
Telephone 3924 Madison Square.
ESTABLISHED BUY FROM SHIP TO ME
1891 TRY
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A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of
CUT FLOWERS.
Consignments solicited. Prompt settlements

Telephone Call 756 Madison Sq.
Mention the Florists' Exchange when writing

Let us know your wants in Plants and Cut Flowers for Easter. We can fill them.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

R. C. HAYDEN, SECY. AND TREAS.

WM. J. MUTH, MANAGER.

THE PHILADELPHIA CUT FLOWER CO.

Daily Receivers and Shippers of

HIGH GRADE CUT FLOWERS

SPECIALTIES—American Beauty, Bride and Bridesmaid Roses, Fancy Enchantress, Lawson and Prosperity Carnations.

STORE OPEN 7.30 A. M. to 8.00 P. M.

1516 and 1518 Sansom St., PHILADELPHIA, PA.

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FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

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PLANTS FOR EASTER

THE LEO NIESSEN COMPANY

STORE OPEN FROM 7 A. M. to 8 P. M. 1217 Arch St., Philadelphia, Pa.

WRITE FOR LIST AND PRICES

Mention the Florists' Exchange when writing.

SAMUEL S. PENNOCK

THE Wholesale Florist of Philadelphia

Easter Plants

Mention the Florists' Exchange when writing.

LIST OF PRICES ON APPLICATION

Sphagnum Moss and Cedar Poles
Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.
H. R. AKERS, CHATSWORTH, N. J.
Mention the Florists' Exchange when writing.

Laurel Roping

Extra heavy, round, 6c. per yard.
Laurel Branches, 4c. per lb.
Moss, \$1.50 per (8 bbl.) Bale: Peat, 75c. per (1 bbl.) bag.
F. O. B. N. Y. Cash with all orders.

BAKER & DICK, Pier 34 N.R., New York
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HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?

It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of one hundred Pounds.

Per doz.
No. 1 will fit from 2 to 5-inch pots..... 30c.
No. 2 will fit from 5 to 8-inch pots..... 40c.
No. 3 will fit from 8 to 12-inch pots..... 50c.
By mail 10c. extra per doz. Sample pair 10c., postpaid. See last week's issue for advertisement of Florists' Letters, etc.
W. C. KRICK 1184-86 Brooklyn, N. Y.
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N. LEGAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214 Madison Square
Stands at Cut Flower Exchange Coogan Bldg., W. 26th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves 75c. per 1000.
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SHEEP MANURE

Pulverized. Free from all Adulteration In Bags, \$18.00 per Ton
Special price on car load lots in bulk

ROBERT SIMPSON, Clifton, N. J.
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Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25
MANUFACTURED BY
W. J. COWEE, Berlin, N. Y.

Samples free. For sale by dealers.
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GRAND PRIZE Highest Award WORLD'S FAIR ST. LOUIS

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RECENTLY ENLARGED WITH 25,000 New Words and Phrases
New Gazetteer of the World
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Edited by W. T. Harris, Ph.D., LL.D., United States Commissioner of Education.
2380 Quarto Pages. 5000 Illustrations.
Also Webster's Collegiate Dictionary 1116 Pages, 1100 Illustrations.
Regular Edition 7x10x2 1/2 inches. 3 bindings.
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FREE, "Dictionary Wrinkles." Illustrated pamphlets.
G. & C. MERRIAM CO. Publishers, Springfield, Mass.
GET THE BEST

CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses and Spring Flowers 11 South 16th Street, PHILADELPHIA

Mention the Florists' Exchange when writing.

Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

HASLAM LIME CO.
Manufacturers of ONLY OYSTER SHELL LIME
118 to 130 Cliff St. Scranton, Pa.
Mention the Florists' Exchange when writing.



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Wm. J. BAKER Wholesale Florist

1432 S. Penn Square, PHILADELPHIA, PA.
Seasonable Cut Flowers
Fine Quality
Both 'phones.

DUMONT & CO. Wholesale Florists

Carnations a Specialty
No. 1305 Filbert St., Philadelphia
Bell and Keystone 'Phones.

Wm. J. MOORE Wholesale Florist

1235-37 FILBERT STREET
"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.
Bell and Keystone 'Phones.
Growers of choice Carnations and other Novelties will prompt by giving me a trial.

EDWARD REID Wholesale Florist

1526 Ranstead Street, PHILADELPHIA
Bet. Market and Chestnut Streets
Cheapest Stock Always on Hand
Telephone 1-42-26-A.
Mention the Florists' Exchange when writing.

J. B. MURDOCH & CO. Wholesale Florists

FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance 'Phone, 1435 Court.
Mention the Florists' Exchange when writing.

Worcester Conservatories

Wholesale Growers of
CUT FLOWERS

Prompt attention given all orders.
WORCESTER, MASS.

STANDARD FLOWER POTS

THE WHILLDIN POTTERY COMPANY

PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.

Mention the Florists' Exchange when writing.

Buffalo., N. Y.

News of the Week.

George Reichert has severed his relations with Byrnes Bros. as grower at their Williamsville greenhouses.

W. F. Kasting was in Erie, Pa., looking after his interests there on Tuesday of this week.

Beginning on Wednesday of next week will see inaugurated the first local attempt at holding a Spring show, which will be given under the enterprise of the Sweeney Company's department store, and who have the managing aid of the local club under Chas. H. Keitsch's supervision.

John F. Cowell, of the Buffalo South Park's Botanic Gardens, recently spent a goodly period in the Panama Canal zone, on a collecting tour. Some new things of interest were secured, and in his characteristic thoroughness he announces some nomenclature corrections to result.

Columbus, O.

The Week's News.

The Park Commission, of which G. W. Latimer is president, has decided to consult at an early day with a number of landscape gardeners before adopting any special plans for the extensive park and boulevard system around the city.

Mrs. M. E. Kraus, who has been running a neat little store on South High street for the sale of cut flowers and plants, has removed to new and more commodious quarters near by, and is preparing for an extensive early Spring trade.

The plans of the Florists' Association in distributing flower seeds among the school children, at about actual cost, have been carried out quite extensively; and the chrysanthemum plants will be given out in due time. Some of the parents and teachers were inclined at first to complain a little because "five-cent" packages were not furnished for one cent each, but they soon got ashamed of the position they had taken.

The local florists are beginning to get busy, and are anticipating an immense Easter trade, and at fair prices. The only drawback to the situation is that the warm, open weather is hastening the flowers along faster than they would like.

MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000. DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich. Mention the Florists' Exchange when writing



Florists!

You can make money handling

Boyd's FOUNTAIN FLOWER STANDS

Big discounts. For particulars address

ECLIPSE NOVELTY WORKS

PULASKI, PA.

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WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS.

Mention the Florists' Exchange when writing.

Headquarters in Western New York

For ROSES, CARNATIONS And all kinds of Seasonable Flowers.



WM. F. KASTING Wholesale Commission Florist

ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS

383-87 Ellicott St. BUFFALO, N. Y.

GIVE US A TRIAL WE CAN PLEASE YOU

Mention the Florists' Exchange when writing.

MARKETING TAGS!

FOR CUT FLOWERS.

JUST WHAT YOU NEED.

For Sample and Prices, Address

THE FLORISTS' EXCHANGE, 2-8 DUANE ST., NEW YORK.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO

J. B. DEAMUD

Successor to Illinois Cut Flower Co.

Wholesale Cut Flowers

Consignments Solicited.

51 and 53 Wabash Avenue, CHICAGO

GEO. REINBERG Wholesale Grower of Cut Flowers

CHOICE AMERICAN BEAUTY ROSES

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Avenue, CHICAGO, ILL.

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Wholesale Growers and Shippers of CUT FLOWERS

58-60 Wabash Ave., Chicago, Ill.

With the Flower Growers' Co. TELEPHONE, CENTRAL 8067.

All telephone and telegraph orders given prompt attention.

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WHOLESALE FLORISTS

All Cut Flowers at Ruling Market Prices.

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CHARLES W. McKELLAR

Wholesale Commission Florist And Dealer in all Florists' Supplies

51 WABASH AVENUE, CHICAGO

Correspondence Invited from Growers of Specialties in Cut Flowers

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Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, and St. Louis. Lists various flower types like Beauty, Roses, Carnations, etc.

CUT FLOWER BOXES

WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always.

Table listing box sizes and prices: Size No. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 with prices per 100 and per 1000.

Sample free on application. No charge for printing on orders above 250 boxes. Terms cash.

THE LIVINGSTON SEED CO., Box 104, Columbus, O. Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION Price, \$3.50

A. T. DELAMARE PTG. & PUB. CO. LTO. 8 DUANE STREET, NEW YORK.

BOSTON, MASS.

Asparagus Plumosus, Clivonette, Chrysanthemums, Lily Harrisii, Brides, 'Maids, American Beauties. WELCH BROS. PROPRIETORS CITY HALL CUT FLOWER MARKET 15 PROVINCE ST.—9 CHAPMAN PL.

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

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HOLTON & HUNKEL CO.

Wholesale Florists Florists' Supplies

Manufacturers of Wire designs.

457 Milwaukee Street, MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103.

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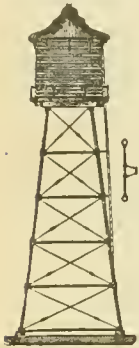
CEMENT BENCHES
 NIAGARA CEMENT & CONCRETE CO.
 NORTH TONAWANDA, N. Y.

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"Absolutely Safe and Reliable. Ask your Friends."

Distance No Bar

We have had several letters from florists in different parts of the country stating that they would like to buy our



TANK AND TOWER

outfits, but consider that they are too far away from Louisville to be able to do so advantageously. This is not the fact. There is no State in this country that has not at least several of our plants. They are made as to be readily shipped and can be put together by any intelligent workman. For full particulars write

W. E. Caldwell Co.
 LOUISVILLE, KY.

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HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.

C. S. WEBER & CO.

10 Desbrosses St., New York

Mention the Florists' Exchange when writing.

Holds Glass Firmly
 See the Point **PEERLESS**
 FULL SIZE No. 2
 Glassing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DEER,
 714 Chestnut St., Philadelphia, Pa.

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All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."
 Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION
 Mention the Florists' Exchange when writing.

Cleveland.

News Items.

It is remarkable the quantities of bone fertilizers that are used on lawns in the Spring. It is difficult to educate the people to put it on in the Fall. It takes one whole season to dissolve, and users wonder why they do not get immediate results.

John Kirchner has just completed four houses, each 12 by 65 feet.

H. R. Carlton is sending in a lot of fine Governor Herrick violets.

Miss Anna L. Westman is in the hospital, suffering from a nervous collapse.

Easter lilies are quite plentiful, and the stock looks good; quite free from disease.

O. G.

Pittsburg.

News Notes.

W. P. Craig, of Philadelphia, was a visitor during the week.

Joseph Jordan, a florist living on the North Side, died last week.

For the next few weeks there will be plenty of flower shows in the city. The Pittsburg and Allegheny parks will each have a grand display. The large private conservatories of A. R. Peacock, on Highland avenue, and those of Henry C. Frick, will be opened to the public this week, and until after Easter.

W. C. Beckert, the Allegheny seedsman, is very busy, with his whole force of employees working overtime.

E. C. REINEMAN.

Louisville, Ky.

News Items.

The sincere sympathy of the craft is extended to Miss Alice Miller, 247 West Jefferson, and Miss Emilie Miller, of the staff of Mrs. C. W. Reimers, in the loss by death of their father.

Ross Walker, for some time at Youngstown, O., has returned home, and is now connected with the establishment of his father, Wm. Walker.

David Weller, foreman for Wm. Walker, has been compelled to give up his work, by order of his doctor, caused by the state of his health.

Louisville was honored, April 4, by a visit from President Roosevelt. While his visit was too brief to cause a flurry in our business, it did create a mighty gathering of his people.

A. R. B.

National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 655 John. HARRIS H. HAYDEN (Late Manager of the Nopera Chemical Company), President EDWARD MOK, WHITING, Vice-Pres. and Counsel JOHN E. WALKER, Secretary and Treasurer

56 PINE ST., Wallace Bldg., (Rooms 611-612) N. Y. CITY
 Mention the Florists' Exchange when writing.

NICO=FUME

TOBACCO-PAPER INSECTICIDE BY FAR THE BEST.

NICO=FUME
 SHEETS ARE READY FOR USE
 NO FOLDING IS REQUIRED JUST HANG EACH SHEET FROM THE HOLE PUNCHED IN ONE END, THEN EIGHT LOWER ENDS BLOW OUT FLAME AND LET THE SHEET BURN
 NO LIGHTING (SHEET HUNG FROM PLANT 37 IN.)
 NO SMOKEING.

FOR SALE BY SEEDSMEN

24 Sheets, 75c.; 144 Sheets, \$3.50;
 288 Sheets, \$6.50 (only 2 1/2c. each).

PACKED IN FRICTION-TOP TINS, Preventing Loss by Evaporation

Mfg. by Kentucky Tobacco Product Co. LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

BAMBOO CANE STAKES

Choice Western, length 5 1/2 to 6 feet, 500 for \$2.50; 1,000 for \$4.50; 5,000 and over at \$4.00 per 1000.

TOBACCO POWDER (Strong) For Fumigating. 100 lbs. \$2.25; 1,000 lbs. \$21.00. For Dusting (Impalpable Powder) 100 lbs. \$2.75; 1,000 lbs. \$25.00.

WOOD, STUBBS & CO., Seedsmen, Louisville, Ky.

Mention the Florists' Exchange when writing.



Evans Improved Challenge

Roller bearing, self-feeding device automatic stop, solid link chain make the IMPROVED CHALLENGER the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
 RICHMOND, IND.

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SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

GIBLIN & CO., Utica, N. Y.

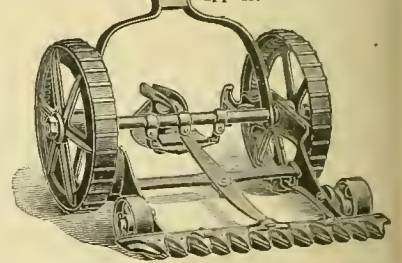
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Clipper Lawn Mower

Co. DIXON, ILL.

The MOWER

that will Kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealers for them. If they have not got them, below is the price: No. 1-12-in. Mower, \$5; No. 2-15-in. Mower, \$5; No. 3-18-in. Mower, \$7; No. 4-21-in. Mower, \$8. Send draft, money order or reg. letter.

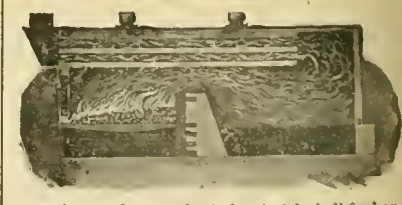
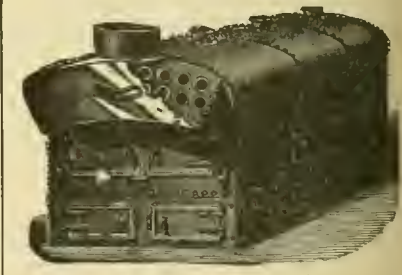
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IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around front, sides and back. Write for information.

Mention the Florists' Exchange when writing.

Heating! Heating! Heating!

A FEW REASONS WHY I HAVE SO MANY COMMERCIAL HEATING CONTRACTS ON HAND

THE satisfactory results obtained in the past. THE most competent greenhouse mechanics employed. THE boilers I install are a guarantee of satisfaction and economy. THE best figures on your work that can be secured.

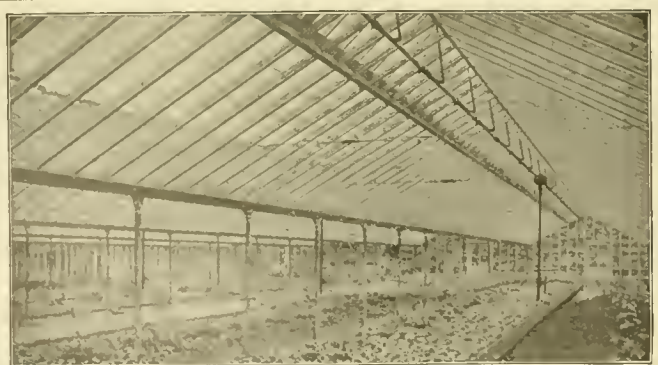
AN OPPORTUNITY TO ESTIMATE ON YOUR HEATING OR REPAIR WORK WILL BE TO YOUR INTEREST

WM. H. LUTTON

West Side Ave. Station Tel. 174 J BERGEN JERSEY CITY, N. J.

Eastern Agent Furman and Kroschell Boilers

Mention the Florists' Exchange when writing.



Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of Construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the best that Can be Produced

Catalogue, plans and estimates free on request.

A. DIETSCH CO., 615-621 Sheffield Ave., CHICAGO, ILL.

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GLASS

For GREENHOUSES, ORAPERIES, HOTBEDS CONSERVATORIES, and all other purposes Get our figures before buying. Estimates freely given

N. COWEN'S SON, 392-94 W. Broadway, NEW YORK
 Mention the Florists' Exchange when writing.

GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

is Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

Mention the Florists' Exchange when writing.

A Good Time to Buy

GULF CYPRESS GREENHOUSE MATERIAL

Is the Present Time

If you want the best quality send us your orders.

Our wood work is well finished by special machinery, is air dried, free from imperfections and durable.

Write to our New York Office for circular and prices. Send for our Greenhouse Construction and Heating Catalogues; mailed on request.

LORD & BURNHAM COMPANY

New York Office: ST. JAMES BLDG. 1133 BROADWAY

General Office and Works: IRVINGTON-ON-HUDSON, N. Y.




Mention the Florists' Exchange when writing.



Best kind, best of its kind for all hand work, is the

Success Knapsack Sprayer

Knapsack and Bucket Sprayer Combined.

Brass pump with bronze ball valves, 5 gal. copper tank, mechanical agitator; pump worked with either hand. Arranged for easy carrying and handling.

WE MAKE 20 STYLES SPRAYERS. Hand, Bucket, Knapsack, Barrel, Field, Power. We meet all wants. Send for free catalog.

THE OERING CO., SALEM, OHIO.
HENION & SUBELL,
Western Agts., Chicago.

Mention the Florists' Exchange when writing.

CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY

Window Glass. Painters' Supplies.

32 Washington Ave., 31st Ward, Pittsburg, Pa.

Mention the Florists' Exchange when writing.



CYPRESS

JOHN C. MONINGER CO.

111-125 Blackhawk St. Cor. Hawthorne Ave. CHICAGO, ILL.

Mention the Florists' Exchange when writing.

GREENHOUSES.

MATERIAL FURNISHED AND MEN TO SUPERINTEND ERECTION IF DESIRED.

CYPRESS SASH BARS ANY LENGTH UP TO 32 FEET LONGER.

THE A. T. STEARNS LUMBER CO., NERONSET, BOSTON, MASS.

Mention the Florists' Exchange when writing.

EUREKA GREENHOUSES

Send for catalogue Get the best Greenhouse Material, Composition Posts

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THE JENNINGS IMPROVED IRON GUTTER

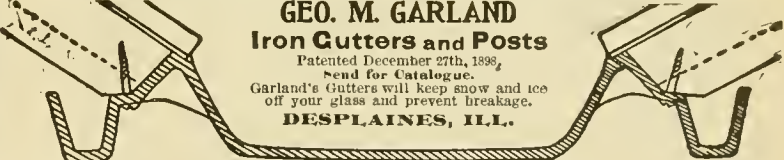
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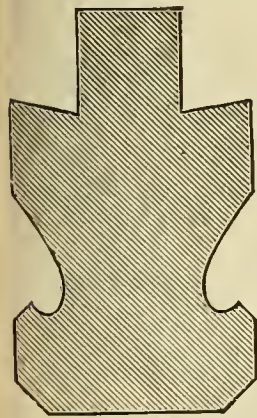
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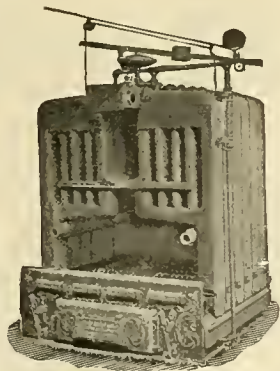
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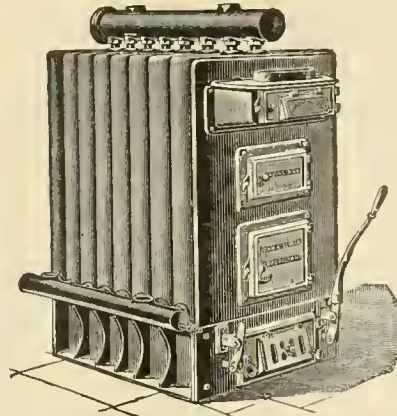
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 Large Size 1.75 per dozen
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ASPARAGUS PLUMOSUS SPRENGERI and **DECUMBENS**, 3 in. pots, 75c. per doz., \$5.00 per 100.
AMPELOPSIS VEITCHII, 3 in. pots, 75c. per doz., \$5.00 per 100; 4 in., \$1.50 per doz., \$10.00 per 100.
CLERODENDRUM, large flowering variety, 2 years old, 5 in. pots, \$3.00 per doz.
DRACENA INDIVISA, 3 in., 75c. per doz., \$5.00 per 100; 4 1/2 in. pots, \$2.00 per doz.; 6 in. pots, \$3.00 per doz.
GERANIUMS, scarlet, pink and white, 3 in. pots, 60c. per doz., \$4.00 per 100.
HONEY-SUCKLE (Halleana), 5 in. pots, \$1.50 per doz.; \$10.00 per 100.
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MOON VINES, 3 in. pots, 75c. per doz., \$5.00 per 100.
VINCAS, variegated, 3 in., 75c. per doz., \$5.00 per 100; 4 1/2 in. pots, \$1.50 per doz., \$10.00 per 100.
MYOSOTIS, clumps from open ground, 60c. per doz.; \$4.00 per 100.
PANSIES, separate colors, yellow, white and blue, \$2.00 per 100.
POINSETTIAS, stock plants, dormant, 5 in. pots, \$1.50 per doz., \$10.00 per 100.
 Plants from 2 1/2 in. pots, \$3.00 per 100.
Asparagus Plumosus, Comorensis, Sprengeri and Decumbens, Alyseum, Little Gem, Antirrhinum white, Abutilon Savitzii, Ageratum, blue and white; Coleus, Verschaffeltii, Golden Bedder and fancy varieties, Cobaea Scandens, Clematis Paniculata, Dracena Indivisa, Fuchsia, double and single; Feverfew, Little Gem, Geranium Mme. Sallerot (strong) and Mrs. Parker; Lobelia, dwarf blue; Nasturtium, dwarf; Petunias, double white; Phlox Drummondii, dwarf; Salvia, Sanevieria Zeylanica, Swainsona alba, Verbena, mammoth varieties.
CHRYSANTHEMUMS, best standard varieties, rooted cuttings, from soil, \$2.00 per 100.
CARNATIONS, pot grown, per 100. Enchantress, \$4.00; Boston Market, \$2.50; Red Sport, \$6.00; Flamingo, \$6.00; The Queen, \$3.00; Mrs. Fisher, \$3.00. Strong rooted cuttings from soil, per 100. Flora Hill, Queen Louise, Scott, Joost, Estelle, Crocker, \$1.50; Crane, \$2.00; Enchantress, \$3.00.
CLEMATIS PANICULATA, 4 in., \$1.50 per doz.; \$10.00 per 100.
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 For Hot Water or Steam
 HOT WATER Radiation from 4,200 Square Feet and Up.
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 Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.
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 233 Mercer St., NEW YORK.
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THE PIERSON-SEFTON CO.
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Pierson Boilers
 For Steam and Water
 are unsurpassed for efficiency and economy

Messrs. Righter & Barton, Madison, N. J., write: "August 5, 1904. The two Pierson sectional hot water boilers installed for our new honoree one year ago gave exceptional satisfaction during the past winter, the most severe for many years, easily fulfilling what was expected of them, at the same time proving to be economical. We found them very easy to manage, that they responded promptly and heated the water in short time, thus giving splendid control of temperature in houses when sudden drop took place outside."

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WE ALSO MANUFACTURE AND SUPPLY
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RUSTIC WORK
 ALL KINDS
 Tables, Chairs, Settees, Window Boxes, Tree Stumps, Stump Tubs, Bird Houses, Pedestals, Rustic Fence, Etc., Etc. Superior Workmanship.

Rustic Hanging Baskets

Size..	8	9	10	11	12	13	14
Price, each.....	\$0.50	\$0.65	\$0.80	\$0.90	\$1.10	\$1.25	\$1.50
" per doz.....	5.50	6.75	8.75	9.75	11.35	13.00	17.00

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YOU want to have the reputation for PERFECT BLOOMS. YOU want your TRADE TO INCREASE and your REPUTATION to spread. You can secure all this by using NICOTICIDE in your houses, either as a fumigant or spray. It will clean out the pests, no doubt of that, and the experience of users through many years shows it is SAFE. The cost per can is not so low as some other preparations, but the WORK DONE is so great—THAT'S THE POINT! Send along your address and we will see if we cannot make you one of our customers.

The name of OUR preparation is NICOTICIDE.
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THE MAXWELL MFG. CO., Successor, Department F., LOUISVILLE, KY.

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USE IT NOW.
F. O. PIERCE CO.
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 Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20
1500 2 3/4 " " " 5.25	60 8 " " " 3.00
1000 3 " " " 6.00	HAND MADE
800 3 1/4 " " " 5.00	48 9 in. pots in crate, \$3.00
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144 6 " " " 3.16	12 12 " " " 4.50
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Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
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NOVELTIES for EASTER in large assortment including **Stuffed Chickens, Ducks, Rabbits, Meadow Larks, and Full Size Bantam Roosters.**
Twig Baskets, metal lined, several styles; Swan-Shaped Baskets; Fern Baskets, oblong, metal lined. Colored Foil.
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We are a straight shoot and aim to grow into a vigorous plant

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

Vol. XIX. No. 15

NEW YORK, APRIL 15, 1905

One Dollar Per Year

Hardy Field-Grown Roses

Extra Strong Two-year-old Plants in Splendid Condition

Strong plants, which if planted at once will bloom freely this summer. We offer a list of extra choice varieties at \$2.00 per dozen; \$12.00 per 100, as follows: Margaret Dickson, Baronesa de Rothschild, Ulrich Brunner, Magna Charta, Mrs. John Laing, Prince Camille de Rohan, Capt. Christy, Jules Margottin, Perles des Blancches, White Rose, Crested Moss, Rugosa Alba, Rugosa Rubra, etc., etc. Also

FRAU KARL DRUSCHKI This is a queen among white roses, of the very largest size, pure snowy white, long pointed buds with shell-shaped petals, opening large and full. A continuous and free bloomer. The finest hardy white rose in cultivation. \$5.00 per dozen; \$30.00 per 100.

CAPT. HAYWARD Extra choice. Bright carmine-crimson. Very large. \$2.50 per dozen; \$16.00 per 100.

MRS. R. G. SHARMAN=CRAWFORD Deep rosy pink. \$2.50 per dozen.

SOLEIL D'OR Golden orange-yellow. \$2.50 per dozen.

MONTHLY AND HYBRID TEA ROSES Strong field-grown plants. \$2.50 per dozen; \$16.00 per 100, as follows: La France, Gruss an Tepitz, Maman Cochet, Belle Siebrecht, Hermosa, Gloire de Dijon, American Beauty, Kaiserin Augusta Victoria, etc., etc.

New Dwarf Perpetual-flowering

CRIMSON, OR BABY RAMBLER (Mme. Norbert Levasseur). Strong field-grown plants. \$6.00 per dozen.

STANDARD, OR TEA ROSES 12 best named sorts; fine collection. \$5.00 per dozen; \$35.00 per 100.

AMPELOPSIS VEITCHII. Extra strong field-grown plants \$12.00 per 100.

ARISTOLOCHIA SIPHO (Dutchman's Pipe). Strong field-grown plants. \$3.50 per dozen.

HYDRANGEA PANICULATA GRANDIFLORA. Strong field-grown plants. \$12.00 per 100.

CLEMATIS Jackmanni, Henryi, Duke of Edinburgh, Hybrida Sieboldi, etc. Strong two-year-old field-grown plants. \$3.50 per dozen; \$25.00 per 100.

CLEMATIS Ville de Lyon. New large red-flowered clematis. \$9.00 per dozen.

AZALEA MOLLIS. Fine bushy plants, well budded. \$4.50 per dozen; \$30.00 per 100.

Also large stocks of **Colorado Blue Spruce**, **Retinosporas**, **Boxwood** in bush and pyramidal form, **Hardy Phloxes**, etc., etc.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

DORMANT ROSES

HYBRID PERPETUAL TEA, HYBRID TEA AND OTHERS

Selected Large Two-Year-Old Bushes Low-Budded and Own Roots
Varieties marked (*) we can supply upon their own roots, or budded.

OUR ROSES ARE MADE UP IN BUNDLES OF FIVE EACH

HYBRID PERPETUAL

Abel Carriere	Duke of Teck	Mme. Charles Wood	Alfred Colomb
*Earl of Dunferlin	Margaret Dickson	*Anna de Diesbach	Eugene Verdier
*Marshall P. Wilder	Anna Alexieff	Fisher Holmes	*Magna Charta
Ball of Snow	*Gloire de Margottin	Mme. Gabriel Luizet	Baroness Rothschild
*Gen. Jacqueminot	*Mrs. John Laing	Capt. Christy	*Gen. Washington
Paonia	Cheshunt Hybrid	Gen. des Batailles	*Paul Neyron
*Cito	John Hopper	Perstan Yellow	Duke of Connaught
*La France	*Prince Camille de Rohan	Duke of Edinburgh	Mabel Morrison
*Ulrich Brunner			

Prices of above: Dormant budded plants, purchaser's selection, 65c. per bundle of 5; \$11.00 per 100; \$100.00 per 1000. Varieties on own roots, 75c. for 5; \$13.00 for 100. Not less than 5 of any one variety sold.

TEA, HYBRID TEA, and other Dormant Roses

	Per 5	Per 100		Per 5	Per 100
*Clothilde Souper	\$0 75	\$13 00	*Maman Cochet, Pink	\$0 65	\$11 00
Caroline Testout, Rose	75	13 00	*Maman Cochet, White	65	11 00
Gloire de Dijon	75	13 00	Sou. de Malmaison	90	15 00
*Gloire Lyonnaise	90	15 00	*President Carnot	90	15 00
*Hermosa	75	13 00	*Reine Marie Henriette	75	13 00
*Kaiserin Augusta Victoria	90	15 00	*White La France, White	90	15 00
			*Wm. Allen Richardson	1 00	17 50

MAMAN COCHET Pink and white, 2-year-old, own root, American grown, The finest of all roses for florists, blooming outside. Bundle of 5 for 65 cents, \$11.00 per 100, \$100.00 per 1000.

CRIMSON RAMBLERS, Large Dormant Plants, American-Grown

First size, 2-year-old, 4 to 6 ft. long, with many branches, per 5, \$1.00; per 100, \$15.00. Second size, 2 1/2 to 4 ft. long, per 5, 75 cents; per 100, \$12.00. Third size, 2 to 2 1/2 ft., 1 year old, per 5, 40 cents; per 100, \$6.50. *White Rambler (Thalia). *Pink Rambler (Euphrosyne). *Yellow Rambler (Aglia). Extra strong; 2-year-old plants, 75 cents per 5; \$12.00 per 100.

STANDARD or TREE ROSES Grafted on Rugosa Stock

Large, well-grown, selected plants in the following varieties, all true to name:

Paonia	Mrs. John Laing	Gen. Jacqueminot	Duke of Teck
Ulrich Brunner	Mme. Isaac	Caroline Testout	Perrier
Belle Siebrecht	Mme. Beraud	Prince Camille de Rohan	Crimson Ramblers
Gloire Margottin			

75c. each; \$3.00 per 5; \$5.00 per 10; \$40.00 per 100.

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GRAFTED STOCK NOW READY.



Kaiserin, \$15.00 per 100
Carnot, \$12.00 per 100
Bride, \$120.00 per 1000
Bridesmaid, \$120.00 per 1000

OWN ROOT STOCK.

Kaiserin, 2 1/4 in. pots \$4.00 per 100
Carnot, \$35.00 per 1000
Bride, \$35.00 per 1000
Bridesmaid, \$35.00 per 1000

AMERICAN BEAUTY, 2 1/4 in., \$6.00 per 100; \$50.00 per 1000

My plants are all clean, healthy and vigorous. Send for sample.

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New Scarlet Carnation Cardinal

SPECIAL OFFER

Having been very favorably impressed with this Carnation, we purchased a large stock of it, securing early delivery, with the intention of growing it for the New York Market, but we have received such a large number of orders for our new Carnation **ROBERT CRAIG** that it has become necessary for us to devote the space intended for the Cardinal to stock plants of Robert Craig for propagating purposes. Therefore, our selected stock, consisting of 3,000 plants from 2-inch pots, is now for sale. It is in especially fine condition and we are certain will prove a very profitable investment for any florist who needs a first-class fancy scarlet.

PRICES

25 Plants, - - -	\$3.00	100 Plants, - - -	\$12.00
50 Plants, - - -	6.00	250 Plants, - - -	25.00
1000 Plants or more, \$100.00 per 1000			

Remember that you can secure a Discount of 5 per cent. from the above prices by sending Cash with the order.

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G. W. WARD, President

Queens, L. I., N. Y.

With the Advent of Spring

at your very door, you will want these items

Asparagus Plumosus Nanus

Per 1000 seeds, \$5.00.

- SMILAX per oz., 35c
- MUSA ENSETE..... per 100 seeds, 90c.
- DRACENA INDIVISA..... per oz., 30c.
- ASTERS..... trade pkt., 25c.
- PERUVIAN GUANO, just received, per 100 lbs., \$2.25.
- Sterilized and Pulverized SHEEP MANURE, arrived to-day, per ton, \$20.00.
- TOBACCO STEMS, per 100 lbs., \$1.25; per ton, \$17.00.
- NICO FUME, can of 24 sheets, 76c.; can of 144 sheets, \$3.50.
- APHIS PUNK, per box, 12 rolls, 60c.; per case, 12 boxes, \$6.50.

TO CLEAN UP

- LILIUM ALBUM per 100, \$6.50
- LILIUM RUBRUM..... per 100, 6.25
- Berlin and Hamburg LILY OF THE VALLEY PIPS, per case, (2500), \$20.00.
- BAMBOO CANES..... per 1000, \$6.00



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- CRIMSON RAMBLERS. Extra..... \$15.00 per 100
- No. 2..... 9.00
- BOXWOOD PYRAMIDS, 3 ft. and up \$175.00 " "
- 4 ft. and up 225.00 " "

Prices on all Fall Bulbs, Plants and Roots cheerfully given by

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"SEMPER IDEM" BRAND

I AM NOW BOOKING ORDERS FOR JULY AND AUGUST DELIVERY PRICES ON APPLICATION

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	Per 100	1000
Groff's Hybrid Seedlings, mixed.....	\$2.00	\$16.00
Mendowvale, mixed.....	1.00	10.00
General, mixed.....	.75	7.00
Lemoine's, mixed.....	2.00	15.00
Lemoine's, extra fine mixed.....	2.50	20.00
Childs, mixed.....	2.00	18.00
Pink and Rose, mixed.....	1.25	11.00
Yellow and Orange, mixed.....	3.50	30.00
Striped and Variegated, mixed.....	2.25	20.00
White and Bright, mixed.....	1.40	12.00
Scarlet and Red, mixed.....	1.25	10.00

NAMED VARIETIES

	Per 100	1000
Augusta, white blue anthers.....	\$4.00	\$30.00
Baron Staffe.....	1.50	14.00
Brenchleyensis.....	1.50	12.00
Ceres.....	1.75	16.00
Geo. Paul.....	15.00	
Gil Blas.....	15.00	
Jane Dienlfoy.....	20.00	
May, 1st size.....	1.75	18.00
Mme. Monneret.....	1.40	12.00
Mrs. Beecher.....	2.50	22.00
Princeps.....	30.00	
Shakespeare.....	5.00	45.00
Senator Volland.....	25.00	

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THE ALBERT DICKINSON CO.

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The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an un-introduced seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co.

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Tuberose, Excelsior Dwarf Pearl, Bright, Clean, Hand Picked Stock. Special Offer, F. O. B. N. Y. First Size, 4-6 inch, per 100, \$1.00; per 1000, \$7.00; 5000 for \$32.50. Medium Grade. Per 100, 50 cts.; 500 for \$2.00; 1000 for \$3.50; 5000 for \$15.00.

GLADIOLUS

	100	1000
Augusta, fine white sort.....	\$3.00	\$25.00
Brenchleyensis, scarlet.....	1.25	11.00
John Bull, white tinged yellow.....	2.00	18.00
Mme. Moneret, pink.....	1.50	12.00
Florida, very early red.....	1.75	15.00
Isaac Buchanan, yellow.....	3.25	30.00
Red shades mixed.....	1.25	10.00
Pink shades mixed.....	1.25	10.00
Yellow shades mixed.....	3.25	30.00
Variegated shades mixed.....	2.50	20.00
Seedling Mixture.....	1.25	10.00
Vaughan's XXX light and white.....	1.75	15.00
Vaughan's Extra, light and white.....	2.00	18.00
Good Mixed.....	.85	7.00

Caladium Esculentum

	100	1000
5-7 inch.....	\$2.00	\$15.00
7-9 inch.....	3.00	25.00
9-11 inch.....	6.00	50.00

Tuberous Begonias

	100	1000
Single, separate colors.....	\$2.50	\$22.00
Double, separate colors.....	4.50	42.00
Gloxinia, separate colors.....	3.50	

ROSES

Special Offer to Close Out Standard or Tree. Bunch of 5 for \$1.50; 10 for \$2.75; 25 for \$6.00. Crimson Rambler. 4 to 5 feet. Bunch of 5 for 75 cts.; 10 for \$1.25; 25 for \$3.00. 2 to 3 feet. Bunch of 5 for 50 cts.; 10 for 90 cts.; 25 for \$2.00.

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14 Barclay Street NEW YORK

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April 15, 1905

Floracraft Prize

GLADIOLUS

PRIVATE

THIS IS ABSOLUTELY THE FINEST STRAIN EXTANT.

FLORACRAFT PRIZE MIXTURE, 1st size, \$1.50 per 100; \$10.00 per 1000. 2d size, \$1.00 per 100; \$7.50 per 1000.

100	1000	100	1000
1000 New Hybrids.....	\$2.00	\$18.00	
1000 Pink Shades, mixed.....	1.50	12.00	
1000 Pencheyensis, scarlet.....	1.25	10.00	
Striped and Variegated.....		\$2.25	\$20.00
White and Light.....		1.75	15.00
Lemolne's Hybrids, mixed.....		1.50	12.00
American Hybrids, choice mixed.....		1.00	9.00

Chinese Herbaceous

PEONIES

SPLENDID ROOTS, WITH 2 TO 5 EYES.

Per doz.	Per 100	Per doz.	Per 100
Double White.....	\$1.50	\$10.00	
Double Pink.....	1.25	8.00	
Double Dark Red.....	1.25	8.00	
Double Red.....		\$1.25	\$8.00
Double Mixed, all colors.....		1.00	8.00

See our offer of JAPAN LILIES, CYCAS STEMS and FERN BALLS in last week's EXCHANGE.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa. Mention the Florists' Exchange when writing.

SPRING BARGAINS

12	100	12	100
6x7.....	\$0.30	\$2.00	
7x9.....	.40	3.00	
8x11.....	.75	6.00	
Monster.....	1.25		
12	100	12	100
12 100 1000			
The White Amaryllis. Great for	\$0.75	\$5.00	\$40.00
cut flowers. Try it.....			
12	100	12	100
1000 9.00			
2d size.....	.15	.85	7.00
Light.....	.25	1.75	15.00
Florists' XXX, white and	.20	1.25	11.00
rose and pink.....	.40	3.00	
Variegated and striped.....	.40	3.00	
Yellow (very scarce).....	.40	3.00	
MAY, rose and white, at			
special price as long as			
stock lasts.....	.20	1.25	11.00
Large bulbs.....			

H. H. BERGER & CO., 47 Barclay St., New York

Mention the Florists' Exchange when writing.

LEONARD

WHOLESALE SEED GROWERS

WRITE FOR PRICES WE ARE HEADQUARTERS FOR ONION SETS Flower Seeds and Bulbs CO. CHICAGO

CANNAS

True, sound, selected roots, 2, 3 and more eyes. Allemania, Austria, Italia, P. Marquand, Robusta, red leaf, \$2.00 per 100; \$16.00 per 1000. Mrs. Kate Gray, new, orchid-flowered, 6-7 in. across, scarlet overlaid with gold; Martha Washington, dwarf, finest pink; Black Beauty, etc.; \$3.00 per 100; \$25.00 per 1000. field-grown, leading kinds, for cutting flowers named whole roots, \$3.50 per 100; \$30.00 per 1000. Shellroad Greenhouses, Grange P. O., Balto., Md. Mention the Florists' Exchange when writing.

Sweet Corn

CROP, 1904 New variety, unnamed, larger than Stowell's, sweeter, ears well in dry weather, four days later than Stowell's. 30 bus. at \$2.00 per bus. cash. BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

Summer Flowering BULBS

100	1000
Ismene Grandiflora.....	\$6.00
Madelra Vines.....	1.00
Spotted Callas.....	3.00
Fritoma Pfitzeri.....	7.00
Gladioli, mixed, 1 1/4 in. diam.....	.60

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC. Eight per cent. discount for cash. Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N.Y. Mention the Florists' Exchange when writing.

Onion Sets

CHOICE STOCK Samples and Prices on Application

VAUGHAN'S SEED STORE

84-86 Randolph St. CHICAGO 14 Barclay St. NEW YORK

Mention the Florists' Exchange when writing. If you are uncertain regarding the quality of our Bulbs, write for good words others say for them.

HUBERT & CO.

N. LEPAGE, Rep. MT. VERNON, N.Y. Mention the Florists' Exchange when writing.

DAHLIA ROOTS

1000 Wm. Pierce (yellow), 1000 John Bragg (dark red velvet), 2000 Nymphaea (pink with white centers), \$3.00 per 100; \$26.00 per 1000. 3,000 Mixed colors, all double, \$2.50 per 100; \$20.00 per 1000. Cash with order, please.

CHAS. E. BRIGGS, Daysville, Oswego Co., N.Y. Mention the Florists' Exchange when writing.

Per 100	1000
California, 12-15 in.....	\$1.25
18-24 in.....	1.75
2-3 ft., good.....	2.50
2-3 ft., 3 years.....	2.75
3-4 ft., heavy.....	4.50
4-5 ft.....	7.50
Per 100	1000
P. G., 2-3 ft., good.....	\$6.00
3-4 ft., fine.....	9.00
3-4 ft., XX fine.....	11.00

ELIZABETH NURSERY COMPANY, Elizabeth, N. J. Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

JAMESTOWN, N. Y.—R. E. Sheldon has opened a seed store in the rear part of the Mitchell Building.

CLEVELAND, O.—The cold snap of the last few days has given the seedsmen a chance to get caught up a little on their orders and package goods. Wm. Brinker reports quite a demand for Noroton Beauty potatoes. O. G.

NEWPORT, R. I.—It has been cold and rainy for some days and as a result trade has lost some of its snap. That April will be the best in years with the seedsmen there can be no question; everything now seasonable is going clean, and buyers are very eager. There has been quite a little delay all the season thus far, getting goods from the railroads, and it has bothered the seedsmen a lot.

William B. Scott & Co. have had a very busy week in their seed department; especially have sweet peas of the better grades been selling freely. Every season there is less call for cheap seeds, the run of trade wanting the best, being willing to pay accordingly. F. W.

ALBERT LEA, MINN.—It now seems to be definitely settled, says the Standard, that the Thompson Seed Company, a reliable and extensive concern now located at Farmington, will this year move to Albert Lea and become permanently established here in the raising of improved kinds of seeds, developing new varieties and making this the distributing point for a large and growing business in this line. O. C. Thompson, the principal man in the company, has a reputation throughout the Northwest of being one of the best seed experts and growers in the country, and his reliability is everywhere recognized. His plan is to organize a company having a capital of \$25,000, of which \$20,000 is to be paid up. Of this, Mr. Thompson will put in \$10,000, including valuable machinery and cash, and he desires farmers and other citizens to subscribe for the other \$10,000, which will be issued in shares of \$100 each. Already farmers have signified an intention to take up stock, assist in building up the enterprise and sharing in the undoubted profits which will accrue in the business.

Alfalfa, says a recent bulletin of the Agricultural Experiment Station, can be grown successfully, under proper conditions, in all counties of Wisconsin. On the station farm the American variety of alfalfa has equaled in every respect the so-called Turkestan variety; the seed is less expensive and free from noxious weed seeds. There seems to be no advantage in sowing the Turkestan variety, as its origin is of doubtful character, and it seems quite conclusive that the major portion of the Turkestan alfalfa seed sold is so in name only.

MICHELL'S GOOD BULBS

All with good sound tops and up to size

Per 100	Per 1000
Mammoth Bulbs.....	\$10.00
1st size.....	7.50
2d ".....	5.00
3d ".....	3.00
CINNAMON VINE.....	2.50
CANNA, Mad. Crozy, 2 to 3 eye.....	2.50
GLADIOLUS, Finest Mixture.....	.90
Per doz.	Per 100
20th Century.....	\$1.50
ALBUM, 8-9 size.....	1.00
ROSEUM, 8-9 size.....	.75
" 9-11 size.....	1.10
RUBRUM, 8-9 size.....	.75
" 9-11 size.....	1.10
MELPOMONE, 8-9 size.....	1.00
MEXICAN VINES—Strong roots.....	.20

NOTE.—For a complete list of New and Standard varieties of Dahlias and Other Bulbs, see our Wholesale and Retail Catalogue, copies of which will be mailed you if desired.

HENRY F. MICHELL CO.

Importers and Growers 1018 Market St., Phila., Pa. Mention the Florists' Exchange when writing.

FISCHER'S GRAND PURITY FREESIA

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Bulbs no larger than dried wax beans of this grand Freesia make as large a flower as the large bulbs, only the stems are shorter. All growers should try some of this Queen of Freesia, for when once grown always grows. Price for large bulbs, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y. Mention the Florists' Exchange when writing.

CRIMSON RAMBLER **OWN ROOTS.** 3500 No. 1 1/2 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$15.00 per 100.

HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.
 Mention the Florists' Exchange when writing.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.
 Mention the Florists' Exchange when writing.

NOTICE

To whom it may concern: RALPH M. WARD & CO., New York City, having purchased my crop of Bermuda Harrisii Bulbs for the season of 1905, have the sole right to sell them in the American and Canadian markets and to offer them as

Peniston's Bermuda Harrisii

March 31, 1905. CLARENCE PENISTON, Hamilton, Bermuda.
 Mention the Florists' Exchange when writing.

Erfurt Seed Report.

Our main season for the export of seeds is now practically at an end, although supplementary orders keep coming in. The continental season is also waning, and only those firms who do a retail business are still in full activity.

Attention is now turning to the outdoor operations. The weather, although mild for the time of the year, has not hitherto been favorable for the preparation of the ground, alternate snow and rain having waterlogged it, but an improvement is now perceptible and all hands will soon be fully engaged in the initial labor for the harvest of 1905. The Winter has not been such as pleases the gardeners here, who like plenty of snow to protect the plants and hard frost to pulverize the ground and destroy the various insect pests. The half-hardy flower seeds and tenderer vegetables such as tomatoes, are already sown under glass for planting out at the proper period.

Sales have in most articles been satisfactory. Many sorts of beans, such as scarlet and white runners, Pale Dun, Osborn's and Flageolet Victoria Dwarf, are cleared out and inquirers from all sides have to remain unsatisfied. In leeks, almost a complete clearance has been effected, and stocks have not been so low for many years; practically only the local Erfurt sorts are still on hand. Certain onions, such as Strasburg and Straw-colored, are also exhausted, and Zittau nearly so. Owing to the high prices ruling for bulbs, there is likely to be a shorter average put out than usual, so that higher prices may be looked for next season. Spinach has also sold well, and very little is left in stock.

On the other hand, radishes have not moved off very briskly and plenty of seed is still in warehouse. Cabbages, too, have been in poor demand, in fact, quite a drug. The last crop having been a most bountiful one, stocks on hand are large and prices low. As the growth is excellent it would perhaps be advisable to buy already for next season, in case of a rise. Other articles have had about normal sales. Next season's biennial crops are mostly in promising condition.

As was only to be expected, we have run out of some flower seeds. Marigolds, certain classes of aster, such as Mignon, dwarf phloxes, Lobelia Crystal Palace compacta and coreopsis are sold out, and most other leading articles have gone fairly well. The plantations of biennial and perennial flowers have come well through the Winter, and are looking very promising, especially pansies, forget-me-not, and double daisies.

The greater part of the season's novelties have gone off like hot cakes, and the beautiful Schizanthus Wisetonensis, has taken a great leap in popular

favor, the demand having far exceeded the possibility of supply.

Oversea trade has been about up to the average in America, though the tariff war with Canada has hampered business a good deal. Trade with South Africa is still dull, owing to political conditions, but Anstralla, having recovered from the droughts of a season or two ago, is now buying freely.

Referring to some remarks by Mr. R. Dean in a recent issue, regarding the doubling of flowers, I may say the watering of stocks has not, as far as our gardeners' experience goes, any appreciable effect on the percentage of doubles obtained. This is a tendency inherited from many generations, and kept up by constant selection and unremitting care in culture. The origin of the double Ten-Week Stock is not on record, nor is it known to have appeared spontaneously in its native habitat of Southern Europe.—Horticultural Trade Journal, England.

World's Fair Flower Show.

The following letter, which is self-explanatory, has been received by Chairman J. C. Vaughan, of the World's Fair Flower Show Association:

My Dear Mr. Vaughan:
 I was very much astonished this morning to receive check for \$40 for 20 per cent. dividend on a principal of which only 20 per cent. was ever called. You and your co-laborers certainly should receive great credit for the way you handled the World's Fair Flower Show.

I presume you and Mrs. Vaughan are now back from your trip, and trust that Mrs. Vaughan is very much improved in health and strength. Sincerely yours,
 W. ATLEE BURPEE.
 Phila., March 23, 1905.

WORCESTER, MASS.—The seed stores are in full swing, but the cold weather has retarded planting and kept the trade down a little. Prices, with very few exceptions are about as last year.
 CAROLUS.

Indianapolis.

The Week's News.

Sidney Smith, of Baur & Smith, has returned from a five months' visit to Texas.

John Rieman is again able to be about.

Subscriptions for the large chrysanthemum show of 1905 are more than promising; florists and business men are contributing to the fund in the same liberal way as in 1903, so that the coming show will no doubt be the "best ever."

A local newspaper recently stated that the city florists were blue and nearly despondent because of the poor business anticipated at Easter; that most of the stock to be sold at that

ROSES! CLEMATIS!

To close out our surplus on these items we are making low quotations on -
Strong 2 Year Dormant Plants—Crimson Rambler, White Rambler, Pink Rambler, Yellow Rambler, Mme. G. Luizet, Magna Charta, Frau Karl Druschki.

Strong 2 Years—Clematis Jackmanni, Henryll, Mme. E. Andre, Ramona, Ampelopsis Veitchii. Write for prices.

Bride, Perle, Cochet Pink and White, Golden Gate and many others, from 5 in. pots, at \$10.00 per 100.

W. & T. SMITH COMPANY, Geneva, N. Y.

Mention the Florists' Exchange when writing.

WARD'S
 HIGH GRADE
Bulbs & Plants

RALPH M. WARD & CO.
 17 Battery Pl., NEW YORK

QUALITY SEED BULBS PLANTS
 SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
 342 West 14th St., New York.

WANTED
 Cut Blooms of Lilac and Peonies
 on consignment.

GEORGE SALT FORD, 46 W. 29th St., N. Y. City

RAWSON'S
 Arlington Tested Seeds for
 Florists. Catalogue
 mailed free.
W. W. RAWSON & CO.
 Seedsmen,
 12 Faneuil Hall Square,
 BOSTON, MASS.

time was in cold storage, and that the best plants would be out of the market. Several prominent florist firms were quoted. The fact of the matter is, that the reporter had seen a like story in an Eastern paper and wanted to apply it to Indianapolis. He was told differently but of no avail, as he had a story to write which would be conspicuous and out of the ordinary, doing a great injustice to the local trade. A suggestion would here be in order. No matter how serious the flower situation for Easter may be, or how great the difficulties to be overcome, do not mention these to customers or acknowledge it in the local papers, as it certainly will do the trade much harm, for no amount of advertising will convince a customer differently after reading an article dealing with "cold storage" flowers, and "plants blooming three weeks ahead of time," or that "the best flowers are faded before Easter this year." I. B.

CATALOGUES RECEIVED.

THE READING NURSERIES (J. Woodward Manning, proprietor), Reading, Mass.—Price List of Hardy Trees, Shrubs, Vines, Flowers and Fruits. Illustrated.

These nurseries have been established fifty-one years. The excellence of the stock handled, which includes many rare sorts, is well known.

AMERICAN HORTICULTURAL DISTRIBUTING COMPANY, Martinsburg, W. Va.—Catalogue of Agricultural Chemicals, Spray Washes, Insecticides, Etc. Gives formulae. Illustrated.

FREDERIC J. REA, Norwood, Mass.—List of Peonies and Other Plants; also Descriptive Catalogue of Hardy Herbaceous Perennials, giving height, season of flowering, etc. A useful catalogue.

H. W. BUCKBEE, Rockford, Ill.—General Seed and Plant Guide. A catalogue of over 120 pages, fully illustrated, containing a full list of novelties and specialties; among them Buckbee's great Cardinal onion, Early Illinois White Dent Corn, New Pea Vigorosa, etc. Illustrated.

EVERYTHING FOR THE LAWN, Peter Henderson & Co., New York.—One has but a faint idea of the large number of accessories for the lawn available until he sees them enumerated, illustrated, and described, as has been done in this valuable catalogue, which contains some 32 pages of Mowers, Sprinklers, Fertilizers, etc.

GREGORY'S SEED CATALOGUE FOR 1905
 Gregory Seeds
 In our free catalogue for farmers we have added a special page for the gardeners of boys and girls.
J. J. H. GREGORY & SON,
 Marblehead, Mass.

Mention the Florists' Exchange when writing.

Thorburn's Seeds

We are Now Booking Orders for

Lilium Harrisii

for the coming season and florists are invited to send us a list of the sizes and quantity wanted, that we may quote them prices.

J. M. THORBURN & CO.
 36 Cortlandt St. New York
 Mention the Florists' Exchange when writing.

NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.

Mention the Florists' Exchange when writing.

CRIMSON RAMBLER ROSES

We have a specially fine lot of our own growing on own roots, two and three year old, with strong canes, in splendid condition for present planting and offer them until sold as follows:

Selected Extra Strong 3 year old, 4 to 6 ft. canes, many branches. **Strong**—2 year old, 3 to 4 ft. canes.
 \$15.00 per 100; \$125.00 per 1000. \$12.00 per 100; \$100.00 per 1000.
Strong—SECONDS, 2 year old, fine plants for growing on for forcing purposes
 \$6.50 per 100; \$55.00 per 1000. 25 sold at 100 rate; 250 at 1000 rate. See list of other dormant roses on front page.

PALISADES NURSERIES, Sparkill, N. Y.

Mention the Florists' Exchange when writing.

CLUCAS & BODDINGTON Co., Proprietors

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

Mention the Florists' Exchange when writing

1905 Crop Now Ready ASPARAGUS SEED

Plumosus naana, 1st-house grown, \$1.75 per 1000. Sprenger, 75c. per 1000.

SMILAX SEED, \$1.25 per lb.

OAK GROVE NURSERIES

406 Los Angeles St., - - LOS ANGELES, CAL.

Mention the Florists' Exchange when writing.

1904 CROP ASPARAGUS SEED

Per 100 Per 1000
 Plumosus Nanus.....55c. \$3.50
 " Robustus.....85c. 7.50
 " Sprenger!.....15c. 1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.

MOORE & SIMON, Seed Growers

207 Market Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing

NEW SEEDS

Cineraria, Gold Medal Mixture, Tall or Dwarf, ½ tr. pkt., 60c.; tr. pkt., \$1.00.

Primula, Fringed Chinese, Albamagnifica, Chiswick Red, Blue, Kermeina splendens, stippled or mixed, ½ tr. pkt., 60c.; tr. pkt., \$1.00.

ALL OTHER SEASONABLE SEEDS.

Let us figure on your wants in

FALL BULBS

HENRY PHILIPPS SEED CO.
 Toledo, Ohio

Mention the Florists' Exchange when writing.

XXX SEEDS PRIMROSE IMPROVED CHINESE

Finest grown large flowering, fringed single and double, 15 varieties mixed, 500 seeds, \$1.00; half pkt., 60c. Have the varieties separate also.

CINERARIA

Finest large-flowering dwarf in best mixture, 1000 seeds, 60c.

PANSY GIANT

The finest large-flowering varieties, critically selected, 500 seeds, \$1.00; half-pkt., 60c. 500 seeds of "Giant Mime, Perrett" added to every \$1.00 pkt. of Giant Pansy Seed. Cash. Liberal extra count of seeds in all packets.

XXX STOCK

Strong and fine; ready for 3 inch pots. **Lantanae**, Pink and yellow, \$2.00 per 100. **Plixo Drum**, New compact dwarf. Grand for pots. A good seller. Mixed, \$2.00 per 100. **Lohella**, Emperor William, finest dwarf, dark blue, grown from cuttings, \$2.00 per 100.

CASH. Extras added liberally.

JOHN F RUPP, Shiromanstown, Pa.

The Home of Primroses.

Mention the Florists' Exchange when writing.

Azalea Amoena

Ornamental Trees and Shrubs in Great Variety

Ask for Trade List

SAMUEL C. MOON, Morrisville, Pa.

Mention the Florists' Exchange when writing.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

PETERSON NURSERY

506 W. Peterson Aves. CHICAGO, ILL.

Mention the Florists' Exchange when writing.

BURBANK'S PHENOMENAL BERRY TIPS

\$2.00 Per Dozen
 \$10.00 Per 100

Send for Price List, Illustration and Description to

A. MITTING

Kennon Street SANTA CRUZ, CALIF.

Mention the Florists' Exchange when writing.

Catalog Engravings and ILLUSTRATIONS
 that print EASILY. That's the kind we make—have been since '73.
 Horticultural Engraving and Printing
JAS. M. BRYANT,
 706 Chestnut Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

SEED BAGS

For The Trade

We manufacture a full line in Manila, White, Amber or Colored Laid Papers. Also print in quantities. Samples on application. Send list of requirements for estimate.

THE BROWN BAG FILLING MACHINE CO.

Bag Dept. FITCHBURG, MASS.

Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.

Catalogues free on application.

WEEBER & DON, Seed Merchants and Growers,

114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

NEW CROP Flower Seeds

ASTERS—Best German Grown

Queen of the Market.....	15	50
Victoria.....	60	1.75
Giant Victoria.....	80	2.00
Pony Fl. Perfection.....	45	1.50
Simple's Braoching, Home-Grown..	20	60
Above in Separate Colors or Mixed.		
Fresh Tobacco Seeds.....	\$1.50	per bale of 300 lbs.

W. C. BECKERT, Allegheny, Pa.

Mention the Florists' Exchange when writing.

Steady Advertising.

The most successful advertisers of this country are the steady advertisers; the men who plan campaigns in great detail; the men who have started advertising in a modest way and have increased their appropriations as the results became apparent. These men have never been foolhardy enough to believe that they could scale the heights of prosperity at a single bound, or could count on past advertising to carry them along on "downy beds of ease" through the present. Advertising gathers force as it goes—stop it for any length of time and you have to make up for the loss of momentum. The merchant or manufacturer who drops his advertising during dull seasons is dropping his oars in midstream and letting the current bear him backwards.

Account, of course, must be taken of times and seasons. There is no use in throwing away money for general appearance's sake. The shrewd business man will strike while the iron is hot, will push after business most strongly when there is a direct demand that he is equipped to satisfy.

He will keep his name before the public week in, week out; will try to create a demand by carefully considered advertising, will not stand still and let the sheer force of inertia carry him backwards.

The man who believes in steady advertising and distributes his appropriation judiciously throughout the year will meet with greater returns than the chap who spends the same amount in two or three big plunges and then lies back to regain his wind. This is no mere theory.

Steady advertising, used with judgment during dull periods, serves not only to make them less dull, but has also a cumulative effect whose full fruition is gathered in the husier season. It must, of course, be used with judgment. Attempts to force trade that is absolutely unseasonable are farcical.—Printers' Ink.

100,000 STRONG

One and two-year Palmetto Asparagus; 30 varieties of Strawberries; Ward Blackberry (send for descriptive circular) one of the most reliable for family or market; other small fruits. Peach and other fruit trees. Low Prices for First-Class Stock.

CHAS. BLACK, Hightstown, N. J.

Mention the Florists' Exchange when writing.

DUTCH BULBS AND PLANTS

K. VAN BOURCONDIËN & SONS Wholesale Bulb Growers

HILLEGOM, HOLLAND Until May write to

K. H. VAN BOURCONDIËN Care Maltus & Ware, 136 Water St., - - New York

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP

HOLLAND.

Mention the Florists' Exchange when writing.

SURPLUS EVERGREENS

SCOTCH PINE, 3 to 4 ft.....	\$7.50
" " 2 to 3 ft.....	6.00
WHITE PINE, 4 to 6 ft.....	36.00
" " 3 to 4 ft.....	25.00
" " 2 to 3 ft.....	10.00

Good supply of Hemlocks, Norway Spruce, and Abor Vite, White Spruce, Douglas Spruce, Colorado Blue Spruce, Abies Concolor, Balsam Fir, etc. Both Seedlings and Transplanted. Write for Trade List.

D. HILL, Evergreen Specialist,

DUNDEE, ILL.,
 Mention the Florists' Exchange when writing.

TREES
 Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country.
 Gold Medal—Paris—Pan-American—St. Louis. 102 prizes New York State Fair, 1904.
 Illustrated Descriptive Catalogue FREE on Request.
ELLWANGER & BARRY
 Mt. Hope Nurseries, Rochester, N. Y.
 Drawer 1044 U Established 65 Years.

Mention the Florists' Exchange when writing.

FOR SPRING

We offer a general assortment of NURSERY STOCK, including a fine assortment of

Apple, Pear, Cherry, Plum and Peach in all grades. Shade and Ornamental Trees, Shrubs and Roses.

CALIFORNIA PRIVET, 1 & 2 yr Smock Peach Pits

Send List for Prices.

Franklin Davis Nursery Co.

Baltimore & Paca Sts., BALTIMORE, MD.

Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiræa Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mention the Florists' Exchange when writing.

Eisele's Privet

NONE BETTER

2,000 2-year, strong clumps, \$25.00 per 100. 50,000 3-year, cut back, heavy, 2½ to 3½ feet at \$25.00. 50,000 2-year, cut back, heavy, 2 to 2½ feet at \$18.00 per 1000. 25,000 Golden Elder, 3-year plants at \$60.00 per 1000. 30,000 Euony, strong, branched, 12 to 16 ins. high, \$60.00 per 1000. 25,000 Box-Edging, 3 to 4 ins. at \$30.00 per 1000. Achilles, the pearl, \$6.00 per 100. Aquilegia, \$5.00 per 100. Achillea Rose, \$4.00 per 100. Santolina, large, \$6.00 per 100. Boltonia Ateroides, \$6.00 per 100. Clematis, white, strong, \$6.00 per 100. Coreopsis, Lancolata, \$4.00 per 100. Dianthus Barbatus, \$5.00 per 100. Helianthus, Maximiliana, \$1.00 per 100. Delphinium, Formosum, \$5.00 per 100. Hollyhock, double white, red, pink, yellow, 1-year, \$8.00 per 100. Golden Glow, \$5.00 per 100. Lychala Chalcedonica, \$5.00 per 100. Monarda Rosea, \$5.00 per 100. Anthemis Tinctoria, \$5.00 per 100. Heuchera Sangonia, \$6.00 per 100. Stokesia Cyanea, \$5.00 per 100. Pyrethrum Roseum, \$5.00 per 100. Papaver Orientalis, \$5.00 per 100. Veronica Longifolia, \$8.00 per 100. Platycodon Blue, \$5.00 per 100. Digitalis Gloxiniflora, \$6.00 per 100. Agrostema Coronaria, \$5.00 per 100. CASH WITH ORDER.

W. G. EISELE, CEDAR AVE. West End, N. J.

Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

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E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

MECHANICSVILLE, IA.—The Graham Nursery Company has been incorporated; capital \$10,000. Incorporators: H. F. Coulver and J. M. Graham.

BRIGHTON, N. Y.—Chase Brothers & Company will erect an immense new nursery plant in Brighton, moving from present quarters on University avenue and East Park, having sold its present buildings. The plant will cost \$50,000 and will consist of two large buildings giving 40,000 square feet for storage and packing rooms.

FLUSHING, N. Y.—P. A. Keene sold his entire stock, and with it the controlling interest in the Bloodgood Nurseries, April 5, to Ferdinand Hoffmann von Waffenstein, a landscape architect, with offices in the St. James Building, New York City. The name of this nursery, which was established in 1790 by James Bloodgood, will be retained as the Bloodgood Nurseries, Inc. It is the intention of Mr. Keene to re-engage in the nursery line, and that gentleman is seeking an interest in some well established business, or to act as a representative thereof.

Teas' Weeping Mulberry.

One of the most important ornamental trees of a weeping character is Teas' weeping mulberry, an illustration of which was published in The Florists' Exchange in February, 1905. It is said of it: "Teas' weeping mulberry was an accidental seedling, discovered by John C. Teas in the Summer of 1883, in a block of Russian mulberry trees which he was then growing to supply the great demand for trees for 'timber claims' in Western Kansas." Mr. Teas, a practical nurseryman, saw at once the utility of such a tree when grown as a weeper; it took but little time for it to become known; and it is to-day one of the most popular of weeping trees. The specimens are formed by grafting them on tall stems of the common Russian stock, doing the work early in Spring, just before the buds push into growth. It needs a stock almost quite straight, as do all grafted weepers. When the foliage is on the weeping mulberry it is little matter whether the stock is straight or not, as it is not seen; but in Winter it is, and then a crooked stem is an eyesore. To get a strong, straight stock there needs setting out a lot of strong young plants of the common kind, and these to be cut down to the ground. If fairly strong, they will make height sufficient for grafting the first year. Should they not do so, cut them down again the Winter following, when they will surely make height enough. A good height at which to graft seems fixed in the trade as being about six feet. The one we photographed is of such a height. Even if desirable, it is not often stock can be had easily of much taller growth; and really, as the picture shows, one does not want a weeping tree of the character of the mulberry of much greater height.

This tree is the most pleasing when it is pruned back almost or quite to the top of the crown every Spring. It then makes a young growth which will reach the ground before the Summer ends; these new shoots are always clothed with better foliage than older ones, and a beautiful object is the result. The one before us has been so pruned; and what could be handsomer in its way?

It has been suggested that stock for grafting could be had quickly by using the Japanese one, *Morus japonica*, or the native red species, *Morus rubra*; and so they could, as both appear stronger growing than the Russian. But it would have to be seen whether the Japanese one would be hardy enough to take the place of the Russian in cold climates. *M. rubra* would be, of course; but there seems but few seedlings of it obtainable in nurseries, although the tree is wild in our woods.

The weeping mulberry bears fruit, just as those of typical growth do; and this may be considered an additional merit by some persons, while it would be objectionable to none. JOSEPH MEEHAN.

Liriodendron Tulipifera (Crimson?)

An enterprising advertiser in Gardening Illustrated has this to say of our old friend the tulip poplar:

"*Liriodendron tulipifera* (the tulip tree), so called because of its immense, wide crimson blossoms, resembling a tree covered with dazzling crimson tulips; it has large, handsome foliage, very hardy, and is in every way a magnificent tree for lawn or shrubbery." Well, this would indeed be a tree among trees. Unfortunately, this tree does not produce flowers anything like crimson tulips; the flowers are greenish yellow, blotched bright orange; beautiful, if not crimson. Aside from the mistake in the color of the flowers, the tulip tree well deserves the prominence the

advertiser referred to gives it. In foliage, growth and flowers it is all that could be desired. It is rather hard to consider it as a tree to be grown for the sake of its flowers, because of its lofty growth. It has to attain some age and height before it blooms, and when this stage is reached the flowers, many of them, are so far overhead that they cannot be enjoyed and admired as they would be were they nearer the ground. Ordinary trees, when full grown, are 80 feet or more in height, and when in rich river bottoms, where they often grow, they have been known to reach over 100 feet, with a trunk of 6 feet in diameter. As a rule, the trunk is not thick in proportion to its height.

To enjoy its flowers as much as possible, it is better to head the tree back when young, and again from time to time as it grows. This tends to make of it a spreading tree, with branches near the ground, where the flowers can be seen when they expand in late Spring.

As it is, many a one has never noticed the blossoms of the tulip tree, large and beautiful as they are.

Preparing for Layering.

When layering is anticipated—and what nurseryman is there who does not layer—this is the time to prepare "stools." This is done by cutting down some strong plants, pretty well to the ground. This causes fresh shoots of great strength to spring up, and these are the ones to be layered. If the plants are not now in a suitable place for layering, set them out at once, where there will be no disturbance of the layers



TEAS' WEEPING MULBERRY

when made; and let there be sufficient room to permit of the shoots being bent down in the layering and still be room to allow of passing between the rows for weeding and other purposes. There are many ways of propagating shrubs—green cuttings, hard-wood cuttings, layering and other methods. Layering gives strong plants in less time than the others. Put down as soon as there is sufficient length, in early Summer, the greater number of shrubs will have made a good bunch of roots by Fall; and many can be set out the next season. When no particular need of cutting off the layers appears, it is much better to leave them undisturbed until Spring.

Elm and Maple Seeds.

Should no freezing weather follow now, appearances indicate a good crop of sliver and red maple seed, as well as of the early fruiting elms and red birch. It is a curious fact that if these seeds are sown at once when ripe they germinate and make nice plants the same season. They need gathering when careful watching tells us that they are about ripe, and the watching must not be relaxed, for in a few days after they are ripe they are blown away. An odd feature in connection with these seeds is that they are all

of trees that grow in damp ground or along water courses. The birch, as it grows here, is found always along the edge of streams; and the love of a damp place by the *Ulmus fulva* and *U. americana* is well known; the same of the red maple. These trees ripen their seeds in a month or six weeks from the opening of Spring. In the vicinity of Philadelphia the maples and elms are in flower now, and should fine weather continue, the seeds should ripen early in May. The sowing should not be later than a month after gathering; better earlier. If not sown until Autumn, but few will grow.

Flowering of Rhododendrons.

When selecting rhododendrons, buyers will favor their own interests by picking out plants but moderately set with flower buds. When every shoot is capped with a flower bud, it means a great display the same season, but no blossoms at all the next. The nurseryman, or florist, who may be selling the plants will be thanked in the end for calling a prospective customer's attention to this fact, as so many do not know it; and, of course, will take the plants having the greatest number of buds, not knowing there will be none the next year. Should the plants have six shoots to them, take those having, say, three with flower buds and three without. The three without will be those that will flower the year following.

The flowering, together with the transplanting, is enough for the plant for the one season, and no more can be asked. When rhododendrons are in positions where they have been for years, and are strong and thrifty, they will occasionally form flower buds from shoots made behind a flower head; but it is so exceptional that it may be considered they do not do it. I have never known newly transplanted rhododendrons to do it. When well established, large plants are once in good growth, there are always some shoots in both stages—some with flowers and some not—so that blossoms are assured every season.

Situation for Japanese Maples.

It is puzzling to find just the right place to plant a Japanese maple. If in a fully exposed place, the leaves scorch in Summer. If in a too shady one, their rich colors fail to develop. If possible to plant them where they escape two or three hours of the noonday sun, it will suit them better than any other place. Besides this, they need a good lot of moisture in the soil. Not a wet place, but where the roots will be in moist soil, as this will insure some coolness of the roots as well. Those who grow the stock for sale will find it a paying business to plunge the pots in the Summer, in a bed of leaves, sand, or some other material easily handled; and if sales are not expected the same season, place them in a spot almost entirely shaded. They will grow the better for it, even if not so well colored.

Of all the sorts in cultivation, the blood-leaved *A. polymorphum atropurpureum* is the most esteemed. Just when the leaves are fully expanded in Spring, the red color is intense. It is then that the florist who has a lot of this maple in pots finds a great demand for them, for it is at this period of the plant's development one of the most striking features on a lawn. It is a mass of red color, just like a bed of red flowers. The sort mentioned is the most popular of all, but not far behind it is the purple cut-leaved variety, *A. dissectum atropurpureum*. The finely dissected foliage is its chief attraction; but in addition to this there is a half-drooping habit, an umbrella shape, as it were.

All of the Japanese maples are much called for; and those who have a stock in pots find sale for them all Summer long. In fact, pot shrubs and trees are now looked for from those who sell such stock.

JOSEPH MEEHAN.

PAMPHLETS RECEIVED.

MANNING'S MONOGRAPHS, NO. 1.—Berry-Bearing Plants. Published by The Reading Nurseries, J. Woodward Manning, proprietor, Reading, Mass.—An excellent, complete and serviceable booklet, fully describing an interesting class of plants, and giving valuable information as to their adaptability in planting arrangements. Illustrated.

An English carnation specialist has two houses containing about 10,000 plants of American varieties, which he is growing in benches. The chief sorts are Mrs. T. W. Lawson, Enchantress, Fair Maid, Harry Fenn, Floriana and Governor Roosevelt. He has given preference to American carnations, says the Journal of Horticulture, from the fact that they are easier to grow, have a stronger constitution, are much freer in flower, and are quite perpetual. He is able to secure from them blooms all the year round, while from English varieties he has to wait until the early Spring. The flowers are sold at Covent Garden market, and realize satisfactory prices.

Certain terra-cotta flower pots have been held by the general appraisers to have been properly classified under paragraph 96, tariff act of 1897, as plain earthenware.

F. & F. NURSERIES SPRINGFIELD NEW JERSEY Wholesale Growers TREES AND PLANTS in full assortment Trade Catalogue Free Mention the Florists' Exchange when writing.

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An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED. THE WM. H. MOON CO., Morrisville, Pa.

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Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit. Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants. Write for price list.

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10,000 Rhododendron Maximum, selected clumps, 3 to 5 feet; 3000 Kalmia Latifolia, 2 to 3 ft. clumps, very fine, especially suited for fancy lawns and estates where immediate and beautiful effects are wanted. Head gardeners and florists who are in need of this class of stock will do well to write us. Special prices for the next 30 days; shipments can be made from now until May 27. Address THE RIVERSIDE NURSERY CO Confluence, Pennsylvania

700,000 CAL. PRIVET

Per 100 Per 1000 3 years, 2 1/2 to 3 ft., extra heavy... \$3 25 \$28 00 3 years, 2 to 2 1/2 ft., well branched... 2 50 23 00 3 years, 18 to 24 in., well branched... 2 00 15 00 3 years, 12 to 18 in., 4 to 8 branches... 1 50 10 00 2 years, 3 1/2 to 4 ft., very heavy... 3 00 25 00 2 years, 2 1/2 to 3 ft., well branched... 2 25 18 00 2 years, 2 to 2 1/2 ft., well branched... 2 00 15 00 2 years, 2 to 2 1/2 ft., 3 to 6 branches... 1 50 10 00 2 years, 18 to 24 in., 5 to 8 branches... 1 50 10 00 1 year, 14 to 20 in., 2 to 4 branches... 1 25 7 00 1 year, 10 to 14 in., 1 to 2 branches... 1 00 5 00 Outtings, strong... 25c, each. Tree form, 3 years, heads 4 to 6 feet... 25c, each.

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The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

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Maximum, per 100, 5 in. \$5.00; 12 in., \$10.00; 20 in., \$15.00; 30 in., \$20.00; 40 in., \$25.00; 60 in., \$40.00, one or more stalks, with grub, 50c. to \$1.00 each. Choice plants. Cash with first order. Send for price list of trees, plants, etc.

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Miscellaneous Plants 2 1/2-in. stock in A1 condition. Per 100 1000 Ageratum, Dwarf White and Stella Gurney... 40c. per doz.; \$2.00 \$17.50 Alyssum, Dwarf White and Giant Double... 40c. per doz.; 2.00 17.50 Red and yellow. Alternanthera, low in var... 2.00 15.00 Aquilegia (Columbine), single mix'd 3.00 Cannae, 10 var. 3 in. pots... 4.00 Canterbury Bell, single and double blue... 1.50 Carnations, Dwarf hardy mixed... 1.50 12.50 " Marguerite... 1.50 12.50 Centaurea, gymnocarpa... 1.50 Coleus in good variety... 2.00 15.00 Dahlia plants, in var... 2.00 Delphinium Formosum... 1.50 12.50 Digitalis (Fox Glove), fine mixed... \$1.50 \$12.50 Geraniums, Rose, Lemon, Mrs. Taylor and Fernfolia odorata... 2.00 Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List.

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

Mention the Florists' Exchange when writing.

Herbaceous Plants for the Open Border.

Read by William Reid, gardener to Sidney and Austin Colgate, before the New Jersey Floricultural Society, April 7, 1905.

I don't think there is a more interesting class of plants than hardy herbaceous plants. They give us a show from earliest Spring until hard, freezing weather sets in. They never get monotonous, as every week something different comes into bloom. The ideal place, in my opinion, for a herbaceous border is at the edge of a lawn with a background of shrubbery. In such a position the plants show to the best advantage. Also they and the shrubs harmonize well together. But a border alongside a wall, or fence, is also an excellent position. A herbaceous border around a kitchen garden looks well, too, but in such a place I would drive in posts and have a trellis of wire behind the border, so that I could grow all the different varieties of vines.

A herbaceous border does not show to good advantage unless it has a background of some kind. In planting the border I would endeavor to plant each kind in masses, or groups by themselves; the effect is more striking than having the plants all mixed up.

The preparation of the border is another very important matter; unless a good depth of good soil is afforded good results will not be secured. To have good success, one should have at least two feet of good soil, with perfect drainage. If the soil is of a sandy or gravelly nature, I would dig it out and replace it with good soil, using plenty of good, rotten manure in its preparation. I am well aware of the fact that a good many hardy plants like light, sandy soil; but, in general, they all flourish in good, rich ground.

In planting the border, I would prefer early Fall for the work, say about the latter end of September or the beginning of October, with the exception of such plants as candytufts, gaillardias, helianthus, also some of the sunflowers. My experience has been that sometimes these get Winter killed transplanted late in the season. By planting at the time mentioned they will have a chance to get good root-hold before hard, freezing weather sets in. And they will make a better showing the following Summer than if planted in Spring, for the reason that sometimes we get a hot, dry spell of weather early in the season which gives them quite a check.

In regard to covering the border for the Winter, my practice has been for a good many years, with good success, to spread good, rotten manure in between the plants, and level it off nicely in the Spring with a rake. Leaving it on the surface helps to keep the ground moist and cool, and prevents the ground from baking; also tends to keep down the weeds.

But I would not cover plants of an evergreen nature with short manure, as they would be very apt to rot if the weather should be mild during Winter. I would much prefer to use marsh hay, or anything of a similar nature.

To have the border look its best I would, by all means, at least once a week, go through it and cut off all dead flowers, with the exception of any that I wanted for seed purposes; this adds greatly to the appearance, and, besides, the most of them will bloom longer by doing so. Be sure to keep the hoe going to keep the weeds down. It is a very easy matter to keep down the weeds when they are small; a scuffle hoe is best for the work.

I would plant all the various kinds of Spring flowering bulbs, such as Winter aconite, snowdrops, scillas, crocus, fritillarias, chionodoxas, daffodils and others. Not in hundreds, but thousands of each kind by itself. They are more effective in masses than a few scattered here and there. And when they are through flowering I would plant hardy annuals, such as Phlox Drummondii, scabiosas, zinnias, marigolds, calliopsis, Dianthus chinensis, salpiglossis and others. For that purpose I would make a sowing of the above named annuals about the second week in May.

I will now name those which, in my estimation, are the most choice of all the herbaceous plants. There are others equally as good, but it would take too long to describe them. About the first to bloom is the Iris reticulata. It is a bulbous plant, growing about a foot high, with violet purple flowers. Then we have the hepaticas, with white and pink flowers; they do best in a shady position. Arabis alba, or rock cress, is a low growing plant, with white flowers, very pretty for the front of the border; easily raised from seed or division. Alyssum saxatile compactum is another beautiful plant with yellow flowers; a mass of it is very effective. It is easily raised from seed. Phlox subulata, or moss pink, is a handsome evergreen creeping plant; there are several varieties, and all are beautiful, being very easily raised from cuttings in September. Planted in a shady place, they root in a short time if kept moist. The Dielytra spectabilis, or bleeding heart, is one of the handsomest of all the herbaceous plants, blooming early in Spring with beautiful foliage, and racemes of heart-shaped red and white flowers. The variety eximia is a dwarfier plant, with fern-like foliage and smaller flowers, blooming more or less all Summer. Corydalis nobilis is another beautiful plant belonging to the same order with handsome foliage and yellow flowers. They are readily increased by division. The aubretias, or purple rock cress, are beautiful low growing plants, with various shades of purple and pink flowers; easily raised from seed. The epimedium is another ear-

ly blooming plant, very pretty for the front of the border, with pink, white and yellow flowers, increased by division. The doronicums are very showy plants with large, yellow, daisy-like flowers, growing about two to three feet high. The geums are very pretty, with red, strawberry-like flowers; the double varieties are the best. They are best raised every year from seed, as they are liable to rot out during Winter. The trolius, or globe flower, are handsome, easily blooming plants, with beautiful foliage and globe-shaped, yellow blooms; height when in flower, about one foot. Then we have the early flowering Veronicas, crenoides and rupestris, low growing plants, with blue flowers lasting quite a long time. There are other varieties of veronicas which bloom later in the season, but I think the best of all is Veronica longifolia subsessilis, which flowers about the latter end of August and September. It is very easily raised from cuttings or by division. Aster alpina is another beautiful dwarf plant, with large blue flowers and yellow centre, growing nine inches high, flowering about the third week in May. It does best in light, sandy ground; in heavy soils it is very apt to not come out during Summer; at least, that has been my experience. It is readily increased from seed, or by

plenty of water when coming into bloom. They are better for being transplanted every three or four years; unless that is done they die away in the centre and eventually die out altogether. I prefer to transplant them about the latter end of September.

No garden should be without the different varieties of lychnis; they all do well in full sunlight, are of the easiest cultivation, but my experience has been that some of them like to be transplanted about every two years or so, especially Lychnis flos-cuculi and L. viscaria splendens flore-plena. September is a good time for dividing them. I think the two varieties named are the best. But, of course, we cannot get along without L. chalcedonica and L. Haageana. The latter embraces quite a variety of colors, from purest white through all the various shades of red, pink and crimson. The two varieties named are readily increased from seed.

The spiraeas are a beautiful class of plants, doing best in partial shade in moist ground. A few of the best varieties are S. aruncus, S. filipendula fl. pl., gigantea, venusta, palmata, ulmaria, fl. pl.

Another very showy plant is the Thermopsis caroliniana, growing about four feet high, with clover-like foliage and spikes of yellow, pea-shaped flowers. After being planted I always found it best to disturb them as little as possible. To increase your stock the best way is to raise them from seed sown as soon as ripe. They require staking. Campanulas are another very beautiful class of hardy plants; a good many are evergreen. There are also some I would not care to plant in the border on account of their weedy nature. Campanula carpathica, white and blue, is very choice for the front of the border; so is the C. rotundifolia (blue bells of Scotland). C. persicifolia, white and blue, double and single, are very handsome, growing from two to three feet high. The above named varieties are raised from seed and by division. We must not forget the Canterbury bells, Campanula media, which are biennials. I prefer to sow seed of these about the middle of July, and winter in cold frames, planting out about the latter end of March in masses by themselves.

The digitalis, or foxglove, are beautiful, tall-growing plants, suited for the back of the border. I have found it best to raise them every year from seed, and treat them the same as the Canterbury bells, as they seem to have a habit of dying out after flowering. But any plants that do survive the Summer I would cover up with marsh hay for the Winter, and they will make a glorious showing next season. Sweet Williams are capital subjects planted in masses near the front of the border; are easily raised from seed, but be sure you get a good strain, and sow some every year, as they, too, have a habit of dying off during Summer. They require covering with marsh hay for the Winter. Aquilegias, or columbines, are charming plants with a great variety of colors, including white, rose blue, purple, yellow and scarlet. A. coerulea, the Rocky Mountain columbine, is one of the best, with blue and white flowers. A. chrysantha is another good variety with yellow flowers, about the latest of all to flower. A. Skinneri is another good variety, with red and yellow flowers. There are a great many more varieties too numerous to mention. It is best to raise some every year from seed, sowing in Spring, as a good many of the older plants die out during Summer.

Peonies are among the most beautiful of all the herbaceous plants for the garden, very stately in their growth. Their flowers are very fragrant, and the colors are simply grand. No garden should be without a good collection of them; besides, they do well in the shade, where other plants would not grow. I think one of the best, also one of the oldest, varieties and earliest to flower is Paeonia officinalis, double dark red. Seen from a distance, the effect of this is simply grand. I have found that September is the best time to transplant peonies.

The delphiniums are another very desirable class of plants for the garden. They are mostly tall growing, and are of very easy culture. From seed sown in Spring they will bloom the Summer following. But of late years they have been attacked with a disease which cripples the foliage and flowers, rendering them worthless for cutting purposes. I don't know of any remedy for it; but my plan has been to dig up the plants attacked and throw them away.

The oriental poppies are very showy plants, with handsome foliage and large flowers of various shades of red. A clump of them seen from a distance is very effective. After they are through flowering, the tops can be cut down and annuals planted in their place. The Iceland poppy, Papaver nudicaule, is very pretty, too, with yellow, orange and white flowers. They are much dwarfier growers than the oriental poppies. Sown in February, they will bloom the same season in May and June. The gaillardias are very important plants, with red and yellow flowers, blooming all Summer until late Fall; they are very easily raised from seed. It is best to cover them with marsh hay for the Winter; and I would not advise to transplant them in the Fall, as they are apt to rot out during Winter. Gypsophila paniculata is an elegant plant, growing about three feet high, with small white flowers, and grand for cutting purposes; very fine for mixing in with a bunch of cut flowers, giving them a nice, airy effect. It is raised from seed, and when once established should be left alone, as the plants don't like being disturbed. Coreopsis lanceolata is another fine plant, blooming all Summer, with yellow flowers. I would advise cutting off the dead flowers once a week; otherwise the plants won't bloom so freely. To keep up stock of them, sow some seed every year, as the old plants die out occasionally. Clematis Davidiana, integrifolia and recta are fine for the border. C. Davidiana is readily increased by di-



STOCK BEAUTY OF NICE

Grower, Edwin Thomas, Orange, N. J.

Photo by J. B. Davis.

(See page 498)

division. I was almost forgetting to mention the saxifragas; that is, the broad-leaved section. They are about our first plants to flower in Spring, and very often they get nipped by late frosts. I would also be sure to include the armerias, or sea pinks. They are fine for the front of the border. Armeria maritima and A. formosa are both good, with bright pink flowers. One of the most beautiful Spring-flowering plants is the Iberis sempervirens, or candytuft, with flat heads of flowers of the purest white; easily raised from cuttings, by division or seed.

And now we come to the Iris family, which is often called the orchid of the garden. They are all very ornamental and present a wide range of delicate colors, flowering from early Spring to the middle of July. The German iris are all grand, blooming in May and the early part of June. They all do well in ordinary garden soil. I would advise not to plant them too deep; otherwise they are liable to rot, if the ground is too rich. Then we have the Japan Iris, which are considered by many to be the best of all, with large single and double flowers, often nine to ten inches in diameter, with a great variety of colors, from purest white, through all the various shades of purple, lilac, pink and deep maroon. They like rich, moist ground, and, if possible, I would give them

Dreer's Select List of HARDY PERENNIALS

We offer here only the most **Showy and Decorative Sorts**, including varieties suited for **CUT FLOWER** purposes. These varieties are marked with an asterisk (*).

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List.

This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

	Per doz.	Per 100		Per doz.	Per 100		Per doz.	Per 100
<i>Acanthus Mollis</i> , 4-in. pots.....	\$1.25	\$10.00	<i>Campanula Carpatica</i> , Blue, 4-in. pots.....	.75	6.00	<i>Helianthus Davidiana</i>.....	.75	6.00
<i>Latifolia</i> , 4-in. pots.....	1.25	10.00	White, 4-in. pots.....	.75	6.00	<i>Mollis</i>.....	.75	6.00
<i>Achillea Filipendulina</i> , 4-in. pots.....	.75	6.00	<i>Grandis</i> , 3-in. pots.....	1.00	8.00	<i>Multiflorus</i> fl. pl.....	.75	6.00
<i>Millefolium Roseum</i> , 3-in. pots.....	.75	6.00	<i>Grossesifolia</i> , 4-in. pots.....	.75	6.00	<i>Maximus</i>.....	.75	6.00
<i>The Pearl</i> , 3-in. pots.....	.75	6.00	<i>Persicifolia</i> , 4-in. pots.....	.75	6.00	<i>Maximiliana</i>.....	.75	6.00
<i>Autumnale</i> , Strong.....	1.50	12.00	<i>Alba</i> , 4-in. pots.....	.75	6.00	<i>Meteor</i>.....	.75	6.00
<i>Iconitum Fisheri</i> , Strong.....	1.50	12.00	<i>Backhousei</i> , 4-in. pots.....	1.00	8.00	<i>Miss Mollish</i>.....	.75	6.00
<i>Nepellus</i> , Strong.....	1.25	10.00	<i>Gigantea Moerheimi</i> , New; 3-in. pots.....	1.25	10.00	<i>Rigidus</i>.....	.75	6.00
<i>Adonis Pyrenaica</i> , Strong.....	1.25	10.00	<i>Pyramidalis</i> , Strong 1-year-old plants.....	1.00	8.00	<i>Sceil'd Or</i>.....	.75	6.00
<i>Vernalis</i> , Strong.....	1.00	8.00	<i>Punctata</i> , 4-in. pots.....	.75	6.00	<i>Tomentosum</i>.....	.75	6.00
<i>Agrostemma Coronaria</i> , 4-in. pots.....	.75	6.00	<i>Rapunculoides</i> , 4-in. pots.....	.75	6.00	<i>Wulley Dodd</i>	1.00	8.00
<i>Flos Jovis</i> , 3-in. pots.....	.75	6.00	<i>Trachelium</i> , 4-in. pots.....	1.00	8.00	<i>Helioopsis Pitcherianus</i> , 4-in. pots.....	.75	6.00
<i>Anthericum Liliastrum</i> , Strong.....	.75	6.00	<i>Calimeris Incisa</i> , 3-in. pots.....	.75	6.00	<i>Semi-Plena</i> , New.....	1.50	10.00
<i>Liliago</i> , Strong.....	.75	6.00	<i>Caryopteris Mastacanthus</i> , 3-in. pots.....	.75	6.00	<i>Scaber Major</i> , 4-in. pots.....	1.00	8.00
<i>Ajuga Reptans</i> , Variegata, 3-in. pots.....	1.25	10.00	<i>Cassia Marylandica</i> , Strong, 1-year old.....	.75	6.00	<i>Hemerocallis Dumortieri</i> , 4-in. pots.....	.75	6.00
<i>Genevensis</i> , 3-in. pots.....	1.00	8.00	<i>Cerastium Tomentosum</i> , 3-in. pots.....	.75	6.00	<i>Fulva</i> , 4-in. pots.....	.75	6.00
<i>Alyssum Saxatile Compacta</i> , 3-in. pots.....	.75	6.00	<i>Ceanothus Gloire de Plantiera</i> , 4-in. pots.....	2.50	20.00	<i>Kewans</i> fl. pl., 5-in. pots.....	.75	6.00
<i>Flora Plena</i> , 4-in. pots.....	2.50	18.00	<i>Centaura Montana Alba</i> , 4-in. pots.....	1.25	10.00	<i>Middendorfi</i> , 4-in. pots.....	1.00	8.00
<i>Anemone Japonica</i> , A fine stock, not of the usual white, but killed a or t frequently sent out, but vigorous growing plants from 8-in. pots.....	.75	6.00	<i>Cephalaria Alpina</i> , 4-in. pots.....	1.00	8.00	<i>Thunbergii</i> , 4-in. pots.....	1.00	8.00
<i>Anemone Japonica</i> , Semi-double, rosy carmine.....	.75	6.00	<i>Tartarica</i> , 4-in. pots.....	1.00	8.00	<i>Aurantiaca</i> , 5-in. pots.....	3.50	30.00
<i>Alba</i> , Large, pure white.....	.75	6.00	<i>Chafone Lyonii</i> , 4-in. pots.....	1.00	8.00	<i>Major</i> , 5-in. pots.....	3.50	30.00
<i>Elegantissima</i> , New semi-double satiny rose.....	1.25	10.00	<i>Obliqua Alba</i> , 4-in. pots.....	2.00	15.00	<i>Flozham</i> , 5-in. pots.....	3.50	30.00
<i>Lady Ardium</i> , Large single white.....	.75	6.00	<i>Chrysanthemum Maximum Triumphant</i> , 4-in. pots.....	.75	6.00	<i>Hesperis Matronalis</i> , 4-in. pots.....	.75	6.00
<i>Prince Henry</i> , New double, deep pink.....	2.00	15.00	<i>Burbank's Shasta Daisy</i> , 2 1/4-in. pots.....	.60	4.00	<i>Heuchera Alba</i> , 3-in. pots.....	1.00	8.00
<i>Queen Charlotte</i> , Semi-double La France pluk, the finest of.....	.75	6.00	<i>Cimicifuga Acerinum</i> , Strong roots.....	2.00	15.00	<i>Sanguinea</i> , 3-in. pots.....	1.00	8.00
<i>Rosea Superba</i> , Silvery rose, new.....	1.00	8.00	<i>Dahurica</i> , Strong roots.....	1.00	8.00	<i>Hibiscus Militaria</i> , Strong two-year plants.....	.75	6.00
<i>Whirlwind</i> , Grand double white.....	.75	6.00	<i>Racemosa</i> , Strong roots.....	1.00	8.00	<i>Moschutos</i> , Strong, two-year.....	.75	6.00
<i>Anemone Pennsylvania</i> , 3-in. pots.....	.75	6.00	<i>Simplex</i> , Strong roots.....	3.50	25.00	<i>Crimson Eye</i> , Strong, two year.....	.75	6.00
<i>Sylvestris</i> , 3-in. pots.....	.75	6.00	<i>Clematis Davidiana</i> , Strong, one-year.....	.75	6.00	<i>Hollyhocks</i> , Double, one-year-old, to color.....	1.25	10.00
<i>Aquilegia Blandia</i> , Caryophyllodea, Chrysantha, Chrysantha Alba, Californian Hybrids, Glandulosa Major, Haydigensis, Nivosa Grandiflora, Skinneri and Vulgaris Flora Plena, Strong; 4-in. pots.....	.75	6.00	<i>Racta</i> , Strong, two-year.....	1.50	12.00	<i>Double</i> , one-year-old, mixture.....	1.00	8.00
<i>Cerulea and Canadensis</i> , 3-in. pots.....	.75	6.00	<i>Integrifolia</i> , Strong, two-year.....	1.25	10.00	<i>Single</i> , one-year-old, mixture.....	1.00	8.00
<i>Arabis Alpina</i> , 3-in. pots.....	.75	6.00	<i>Coreopsis Lanceolata Grandiflora</i> , Strong, Heavy 4-in. pots.....	.75	6.00	<i>Allegany</i> , one-year-old, mixture.....	1.00	8.00
<i>Flora Plena</i> , 3-in. pots.....	.75	6.00	<i>Dalphinium Belladonna</i> , Very rare, strong plants.....	2.50	20.00	<i>Hypericum Moeorianum</i> , 3-in. pots.....	1.00	8.00
<i>Armeria Maritima Alba</i> , 3-in. pots.....	.75	6.00	<i>Chinensis</i> , Blue, Strong plants, White, Strong plants.....	.75	6.00	<i>Iberica Correifolia</i> , 3-in. pots.....	1.25	10.00
<i>Splendens</i> , 3-in. pots.....	.75	6.00	<i>Formosum</i> , The most popular, Strong plants.....	.75	6.00	<i>Sempervirens</i> , 3-in. pots.....	.75	6.00
<i>Artemisia Abrotanum</i> , 4-in. pots.....	.75	6.00	<i>Hybridum</i> , Strong plants.....	1.00	8.00	<i>Fl. pl. 3-in. pots.....</i>	1.25	10.00
<i>Purshiana</i> , 4-in. pots.....	.75	6.00	<i>Sulphureum</i> , Strong plants.....	2.00	15.00	<i>Incarvillea Delavayi</i> , Heavy, 3-in. pots.....	1.50	12.00
<i>Stellariana</i> , 3-in. pots.....	.75	6.00	<i>Dianthus Barbatus</i> (Sweet William), Large clumps.....	.75	6.00	<i>Inula Britannica</i> , 4-in. pots.....	.75	6.00
<i>Asclepias Tuberosa</i> , Strong one-year old roots.....	.75	6.00	<i>Strong 4-in. pots.....</i>	.75	6.00	<i>Floribunda</i> , 3-in. pots.....	1.00	8.00
<i>Aster Hardy Alpine varieties</i> , 3-in. pots.....	.75	6.00	<i>Latifolius Atrococcineus</i> , 2 1/4-in. pots.....	.50	4.00	<i>Glandulosa Grandiflora</i> , 3-in. pots.....	1.00	8.00
<i>Asters</i> , Hardy Michaelmas varieties as under, 3-in. pots.....	1.00	8.00	<i>Dictamnus Frazinella Alba</i> , Strong plants.....	1.25	10.00	<i>Oculis Christi</i> , 4-in. pots.....	1.00	8.00
<i>Amellus Bessarsibica</i> , Lilac blue, 12-in. Elegans, Large light blue flowers, 18-in. Amethystinus, Amethyst blue, 3 ft. F. W. Burbidge, Bright, rosy lilac of large size, 3 1/2 ft. Horizontalis, Small, rosy lilac flowers. Levia, Light blue, September and October 4 ft. Longifolia Formosissima, Deep lilac, shaded purple, 4 ft. Mad. Soyneus, Bright, rosy lilac, 15-in. Mrs. F. W. Raynor, Light purplish crimson, 3 ft. Nova Anglia, Large, bluish purple, 3 ft. Rosea, Bright rose colored, 4 ft. Ptermicoides, White, Useful for cutting, 18-in. Robert Parker, Large, lavender blue, 4 ft. Snowflake, Pure white, of small size, but freely produced, 3 ft. St. Bridg, White tinted with bluish, 4 ft. Thos. S. Ware, Large, light rosy lilac, 3 1/2 ft. Top Sawyer, Delicate soft blue, 4 ft. White Queen, Large, broad petaled, white, 3 1/2 ft.			<i>Per doz.</i>	Per 100	<i>Per doz.</i>	Per 100	<i>Per doz.</i>	Per 100

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

vision. The other two named varieties can be raised from seed. Sown in a cold frame in November, they will come up the next Spring.

If I were limited to one class of hardy plants I would choose the Phlox decussata. They are grand, and have such a variety of colors, flowering all Summer from early June till hard frosts set in. By cutting off the seed vessels they branch out from the stems and keep on flowering. They are easily raised from cuttings, seed or division. I used to sow the seed, from selected flowers, in November in a cold frame, and they would all germinate and come up in the Spring. Then I would transplant the seedlings and all of them would flower the same season. Any poor varieties I threw away and kept the good ones. By practicing this method one will gradually get a fine collection in a few years.

The helianthus, or sunflowers, are plants of very easy culture, with showy yellow blossoms, but there are some of them I would not care to have in the border on account of their weedy nature. A few of the best are *H. multiflora*, with large single flowers. *H. multiflora* fl. pl., with double yellow flowers, I think, is about the best of all. The *H. Maximilliana*, grows about eight feet high, and the latest of all to flower. I prefer to transplant them in the Spring. The rudbeckias are very similar to the sunflowers. *R. golden glow* is a tall growing plant, with double flowers, requiring staking. *R. subtomentosa* is a fine variety, growing about four feet high. *R. speciosa* makes a fine display with its yellow blooms and dark centre. *R. maxima*, with glaucous foliage, grows from four to six feet high, with large, yellow flowers and a dark conelike centre.

Stokesia cyanea is a beautiful, late blooming plant with deep blue, aster-like flowers. To have it do well it requires a well drained situation, in sandy loam; otherwise, it is apt to die out during Winter. It can be raised from seed. *Scabiosa caucasica* is another beautiful plant, with blue flowers, requiring treatment similar to the *stokesia*.

English Horticultural Notes.

DAHLIAS.—Now that attention is centered upon dahlias, our National Dahlia Society has published up-to-date additions to the select lists in its Catalogue. It is of interest to notice that the shows and fancies have practically remained the same for the last ten years, the additions in novelties being chiefly with singles, pompons and cactus varieties. I do not know whether American growers rely much upon English dahlia raisers for novelties, but a list of a few of the best may have its value. The best of those being sent out this year comprise: Blush Queen, Cockatoo (white and yellow), T. Parkin (terra-cotta), Rosy Morn (peach), Ella Kraemar (rose pink), J. B. Reding (the best of all orange yellows), Tricolor (a fancy cactus), Harbour Light (orange red), Mont Blanc (pure white), and Alexander (dark crimson). The chief introducers are Messrs. Stredwick, of Silverhill Park, St. Leonards-on-Sea.

COLONIAL FRUITS have been brought specially to notice in London through the instrumentality of the Royal Horticultural Society. An exhibition of Canadian, Nova Scotian and British Columbian fruit and other produce was held a couple of months back; and a second show, on similar lines, to display the produce of colonial possessions south of the equator—Cape Colony, Rhodesia, Australia, including the West Indies—was brought together on March 30 and 31. Though somewhat limited, the exhibition was, nevertheless, educational and interesting, tending to instruct the ordinary gardener as well as his leisured superiors, in the fruit and vegetable products of British possessions in distant parts of the globe; and I am sure these inaugural exhibitions will prove to be the first of an important series during years to come.

narrower, heavy bottom. These can either be placed in bowls or fitted into the necks of exhibition flower vases. Then there are different forms of rustic displays, which are cast from moulds in various angular, winding, graceful patterns, with tubes affixed.

There are now no breast sprays for ladies in London. Fashion has decreed that the beautiful spray (i. e., the loose, elongated breast bouquets hitherto worn) superseded by cluster posies—hideous things which we hope will speedily pass out of sight. Imagine carnations, lily of the valley, and similar flowers being packed into a round clump like a tiny football having a bunch of stalks as thick as a broom handle. Whoever was responsible for the origin of the cluster bouquet we do not know, but simply because it is "the fashion," swivel-minded women have adopted it.

DEATH OF WILLIAM PAUL.—I learn of the death of William Paul, the veteran florist and nurseryman of Waltham Cross, as I write these notes. Mr. Paul was 83 years of age, and his life covers the rise of horticulture and floriculture in our land. His specialties were roses, camellias and hollyhocks, but indeed he was distinguished generally as an all-round nurseryman. He was author of the "Rose Garden," a huge work of great merit. The business is continued by A. W. Paul, his son.

J. HARRISON DICK.

A California Freesia Field.

Our illustration, though a large one, affords but a partial view of a field of freesias on the ranch of Rees & Compere, of Long Beach, Los Angeles County, California. The field contained some five million freesia plants in flower.

The firm's bulb farm is located near Burnett, three



FIELD OF FREESIA ON RANCH OF REES & COMPERE, SIGNAL HILL, NEAR LONG BEACH, CAL.

The monardas are very showy plants, with brilliant scarlet flowers; a mass of them seen from a distance is very effective. They are of very easy culture, doing well in the shade or full sunlight.

Platycodons, or Chinese bell flowers, with blue and white bell-shaped blossoms, are fine for the garden, growing about two feet high. They require staking. The best way to increase them is from seed, as they are hard to divide. The boltonias are very useful plants for the garden, fine for cutting, resembling asters, but much more refined in appearance. *B. asteroides* grows about six feet high, with white flowers. *B. latisquama* grows from three to four feet high, with delicate pink flowers. They can be increased from seed or division.

Physostegia virginica is a fine late blooming plant, with showy spikes of pink flowers; it grows from four to five feet high, and is fine for cutting. Increased by division. The *Anemone japonica* gives us a fine show when flowers are getting scarce, blooming in September and October. Valuable for cutting, lasting a long time in water. The plants are not very hardy in heavy soil. It is best to give them good protection. Tritomas, or red-hot poker, are grand, late blooming plants, with showy spikes of red and yellow flowers, very effective in masses, but they are not very hardy. It is best to lift them about the latter end of November, and heel them in in a cold frame.

Beauty of Nice Stock.

This variety shown in the illustration was flowered in five-inch pots at the greenhouses of Mr. Henry Graves, of Orange, N. J., where its delicate pink blooms were in great favor for dinner table decoration. It does even better planted in the bench.

EDWIN THOMAS.

JAPANESE PLUMS were, of course, on view among many other subjects; and as good samples from South Africa are now fetching 4 to 6 shillings per dozen in the London shops, it would seem that there are openings for a commercial supply from other quarters. This race of oriental plums is found to be too tender to be cultivated outdoors in Great Britain, even against walls. That may seem strange, but, so far, this is what those who have tried them say. Culture and forcing under glass would seem to be the alternative.

THE POTATO BOOM, which had echoed throughout the length and breadth of the land for nearly two years, has "gone under," as was expected by lookers on. Northern Star has gone almost completely out of fashion, and is a glut on the market, while Eldorado, small tubers of which fetched 2s. 6d. each only a few months ago, and then as a favor, are now obtainable at the usual rates.

VARIOUS.—Erica Wilmoreana grandiflora, shown recently by W. Cutbush & Son, of Highgate, London, is immensely superior to the type. The flowers are pink, tipped white, and the plant is somewhat like a good form of *E. hymalis*.

Ornamental tubs for large plants and for shrubs are conspicuous at our shows. They are made of polished, stained oak, in various shapes and sizes, and have brass coopering; that is, brass (or copper) bands. Cheaper imitations of the best soon appear, however, and the originators apparently have no real copyright on their articles. The same may be said in the case of the three or four patterns of floral displays—those inventions for the effective and easy display of flowers and light foliage. The "floral aid" is made of pretty stout wire in loops, joined to a solid zinc base. Bruce's displays are formed of convex, circular plates of tin, through which round holes are punched, and this is fixed by wires that taper to a

miles north of the beautiful seaside town of Long Beach. Rees & Compere claim to be the largest and oldest growers of freesias and oxalis in the United States. They also grow large quantities of other bulbs, such as Chinese narcissus, hybrid tigridias, zephyranthes, ornithogalum, amaryllis, etc.

A recent number of *The Revue Horticole* contains an extract from the proceedings of the Horticultural Society of Prussia on the subject of the curing and forcing of bulbs. One of the speakers said he had found that small bulbs of hyacinths from Berlin forced more easily and better than large Holland hyacinth bulbs. Another speaker remarked that that difference was caused, at least in part, by the method of drying the bulbs. Formerly the Holland specialists allowed their hyacinth bulbs to dry in the sun in the open air; these bulbs gradually gave off their humidity, drying evenly right through. They forced well, thanks to the excellent curing, but they lost much of their bulk, and, as a consequence, their market value. Thus the Hollanders have modified their mode of procedure, and now cure the bulbs in heated sheds. The bulbs so treated dry externally, but retain more humidity inside, losing less of their bulk. As they have been cured less thoroughly, they lend themselves less to forcing than the bulbs dried in the open air, and blossom slower.

In the London (Eng.) suburbs, says the *Leicester Post*, a young gardener of good training, who is out of a situation, makes ends meet in this fashion: He calls on villa people and offers to describe correctly the trees, plants and shrubs in their gardens—giving the botanical and common names—of course, for a consideration. He attaches to each a label, neatly inscribed with its designation.

HOLLYHOCKS

Out of 2 1/2 in. pots, strong plants, double and single, eight colors, \$6.00 per 100; \$50.00 per 1000; 12 sample plants, 75c. Cash with order, please.

M. H. KRUSCHKA, Eiberson, New Jersey
Mention the Florists' Exchange when writing.

GERANIUMS

Big lot of rooted cuttings ready the 17th. Send for Summer Price List.

ALBERT M. HERR, LANCASTER, PA.
Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN.
Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn.
Grower of the Finest Pansies.
Mention the Florists' Exchange when writing.

BARGAINS 200,000 BEDDING PLANTS, Ready May

Primula Obconica, full of buds, strong, 5 in., \$10.00
Dracena Indivisa, strong, 5 in., \$12.00 per 100.
Geraniums, double, 3 in., equal to 4 in., \$4.00; in bloom for Easter, \$5.00 per 100. Verbena, separate; Patinas, Dresser's single fringed; Hardy Chrysanthemums; Colous, in variety, strong, 2-2 1/2 in., \$1.75 per 100. Salvia, Lobelia, 2 in., \$1.50; Begonia Vernon, in colors, ready to pot, \$1.25 per 100. Ageratum, blue, 50c. Vinca Variegata, 4 in., 4-8 strong vines, \$7.00. English Ivy, \$6.00 per 100.
Cash. W. HERZOG, Morris Plains, N. J.
Mention the Florists' Exchange when writing.

100,000

PANSIES

SUPERB STRAIN READY NOW

Fine, large Fall transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you ever handled.

\$1.25 per 100; \$10.00 per 1000

Cash with order

LEONARD COUSINS, JR.

Concord Junction, Mass.

Mention the Florists' Exchange when writing.

COLEUS

ROOTED CUTTINGS

Verschaffeltii, Fire Brand, Golden Queen, Beckwith's Gem, Lord Palmerston, and Fancies, 60c. per 100; \$5.00 per 1000.
Golden Bedder (original) and Hero 75c. per 100; \$3.00 per 1000. A discount of 10 per cent. allowed on 10,000 or more Coleus. More liberal discount on large orders.

AGERATUM, Princess Pauline and Stella Gurney.

SALVIA, Splendens and Jean Revalent, rooted cuttings, 75c. per 100; \$6.00 per 1000.

HELIOTROPE, 75c. per 100; \$6.00 per 1000.
All cuttings sent by mail, add 20 cts. per 100.

FRANK A. PIERSON, Cromwell, Conn.
Mention the Florists' Exchange when writing.

DAHLIA Kaiserin Augusta Victoria

THE BEST WHITE DAHLIA IN EXISTENCE.

My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 5 in. in diameter; a wonderful bloomer, stems 12 to 18 in. long; plants 3 to 3 1/2 feet high. The finest plants obtained from cuttings. Good strong stock from 2 1/2 in. pots, \$3.00 per dozen \$20.00 per 100. Delivery May 1st. Orders filled in rotation. Early booking suggested. Highly commended by the American Institute and the New York Florists' Club.

A. L. MILLER, Jamaica Avenue, Brooklyn, N. Y.
Mention the Florists' Exchange when writing.

Money By "Telegraph" ORDER NOW THE TELEGRAPH GERANIUM

Will make money faster than any plant you handle this season. Will sell at sight off your bench for \$3.00 per doz. and give tone to your establishment. Extra strong 2 1/2 in. plants, \$15.00 per 100. On sale by the leading houses and

Thos. DeVoy & Son, Poughkeepsie, N. Y.
Mention the Florists' Exchange when writing.

ENGLISH IVY 4 in. pots, 3 to 4 feet high, \$1.00 per 100.

VIOLETS Princess of Wales, on rooted cuttings, 60c. per 100; \$4.00 per 1000.

MRS. A. N. TOWELL,
West 200th St. and Fort Washington Ave., N. Y. City
Mention the Florists' Exchange when writing.

PANSIES

Royal Exhibition and Trimarceau, strong plants, transplanted last Fall in open ground.....\$1.00

Bella Perennis.....1.00

Forget-me-not, dwarf, strong clumps.....2.00

Asparagus Plumosa, 3 in. pots.....2.50

" Sprenger, 2 1/2 in. pots.....2.50

Dracena Indivisa, 4 in., 5 in., 6 in. pots, 10c., 20c., 40c.

Sweet Alyssum, Little Gem; Petunia, Howard's Star, Gisela of California, double, 2 1/2 in. pots.....2.00

Cabbage, Wakefield, transplanted, \$4.00 per 1000

J. S. BLOOM, Riegelsville, Pa.
Mention the Florists' Exchange when writing.

New Shasta Daisies

ALASKA, } \$ 3.00 per doz.
CALIFORNIA, }
WESTRALIA, } 15.00 per 100

Having obtained my stock from Mr. Burbank, it is warranted to be pure and true to name. Postal for circular. Shasta daisy "Shasta," strong field divisions, \$3.00 per 100. Small plants, one-third less. Prepaid. Cash, please.

FRED GROHE, McDonald Avenue Santa Rosa, Cal.
Mention the Florists' Exchange when writing.

GERANIUMS

A score of the best new varieties, every order including Richmond Beauty, J. D. Eissel, Cyclops, Silverleaved S. A. Nutt, Clyde, Trago, Precursor, Col. Barre, Bobolink, Nightingale, Bandalara, Godlieb, Fleur de Rosa, Castellane, Le Soleil, Double Dryden, M. Rene Malade, Peter Henderson, Little Red Kidding Hood, etc. All labelled, very strong plants, not cuttings, 2 in. \$5.00 per 100; 3 in. many in bud and bloom, and are ready to make cuttings, \$7.00 per 100; a few 4 in., at \$9.00 per 100. Cash with order.

MAYER & SON, Willow Street, LANCASTER CO., PA.
Mention the Florists' Exchange when writing.

GERANIUMS

Big lot, rooted cuttings, ready April 15. S. A. Nutt, Ricard, Poitevine, Doyle, Castellane, Perkins, Double General Grant, Buchner, Montmort, Gervais, Vlaud, Hill, Bruanti, Charlotte.

\$10.00 per 1000. Cash with order.

PETER BROWN LANCASTER, PA.

Mention the Florists' Exchange when writing.

GERANIUMS

Sand-rooted, then planted in special soil and left to grow on a month.

Nutt, Ricard, Doyle, Poitevine, Buchner, Vlaud, Perkins. \$1.55 per 100; \$13.50 per 1000.

COLEUS

Every effort made to have Giant and Fancy of the finest possible.

Fancy, \$5.00; Giant Leaved, \$8.00 per 1000. Verschaffeltii, G. Bedder (true), Corona, red, with broad gold border, fine, \$6.00 per 1000.

PANSIES

Large five blotched, grand colors transplants, heavy rooted, \$10.00 per 1000.

DANIEL K. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.



Saving Mushroom Spawn.

(140) We have growing in a greenhouse, among roses, four distinct and different varieties of mushrooms, one being very large, numbers frequently getting as large as an ordinary teacup before fully expanded. We are very desirous of saving spawn to put under the benches this coming Winter, and would ask you to let us know, if possible, which would be the best way to preserve the soil in which the mushrooms are now growing. As we are very desirous of growing the two larger varieties, it has caused us a good deal of trouble among roses, killing fully 35 per cent. of them, and has cut down the quality of the roses, as well as all flowers in the greenhouse. The soil was gotten off of a place which in former years was used as a pasture for stock; it all contains mushrooms. We have had a continual fight to keep the plants healthy. S. NURSERY.

—Your mushroom crop is a spontaneous one, and it has destroyed your rose crop; therefore, don't grow any more mushrooms among your roses. The next question is: Are these large mushrooms a good marketable variety? If they are, try them on a limited scale; if they are not, don't grow them at all, but instead stick to the regular commercial sort. Further, if they are marketable, are they as productive in weight per square yard of bed as is the common mushroom? If they are, all good and well; if they are not, then let them alone.

Now, how to save the spawn of the big mushrooms: If the spawn is well run through the rose bed, you must let that bed get dust dry and the spawn inactive, then save this spawn-infested earth for use in your under-the-bench beds next Fall; but even then there is no certainty whatever that there will be any living spawn in that soil after it has been dried and stored. Spawn-saving is an entirely different thing from mushroom growing. The usual way is to spawn a manure bed and when the white mould-like spawn has permeated the manure, don't allow it to produce any mushrooms, but let the manure get bone dry—the drying won't hurt the mould or spawn—and save it in a cool, dry place until needed for use next season. A good way would be to get a load or two of dryish horse droppings and a little cow manure, mix together, and get a little of your spawn-infested earth from the field and mix all together and throw into a shallow heap to heat gently, and cover over with some bare chopped sod from the field. If there is any spawn at all in that material it will start to grow and soon permeate the whole heap, giving the manure a white, thready, mouldy appearance; then take this manure and naturally dry it, and save it dry and cool. This should be good spawn, and can be successfully used in impregnating regular beds. But, altogether, home-made spawn is such an uncertain quantity, most folks are likely to have best results from the regular commercial bricks.

WILLIAM FALCONER.

Fertilizers for Carnations.

(140) We have ten thousand feet of glass devoted to carnations, and have great difficulty in getting cow manure, which we use with a turf soil, moderately heavy, from pasture, with very good results. Can we use bone meal and sheep manure instead of cow manure, and get as good results? If so, in what proportion? BEGINNER.

—Sheep manure used in the proportion of one part manure to seven parts of soil, with a 5-inch potful of bone meal added to each wheelbarrow full of soil at the time of filling the benches, will give good results; though if barn-yard manure, either from horses or cows could be had, we would prefer to use that.

Scale on Rose Plants.

(141) Please give me some remedy for scale on rose plants. We have about 100 rose bushes and on them is a white scale. They are hardy roses. W. H. L.

—To kill the scale on the roses, syringe them with a strong solution of tobacco water, repeating the operation every 4 or 5 days until the scale is removed entirely.

Hall Insurance.

(142) Please inform me if you know of any insurance against hail. A. B.
—For particulars as to hall insurance write to John G. Esler, Saddle River, N. J., secretary of the Florists' Hall Association.

Vincas.

(143) When I put my young vincas in the field should I cut them back? Also at what time in the Spring should I cut the plants back to have nice ones for Spring sales? W. E.

—Do not cut back the vincas at any time; it is the long trailing shoots that make them useful. To have nice Spring stock of medium size, propagate new plants early in Autumn.

50,000 PANSY PLANTS

in bud and bloom, in prime condition, \$10.00 per 1000. Cash with order.

L. J. NEFF, 218 Sixth St., Pittsburg, Pa.
Mention the Florists' Exchange when writing.

Cyclamen Plants

Seed of only selected flowers and well built stock. None better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000.

C. WINTERICH, DEFIANCE, OHIO
Mention the Florists' Exchange when writing.

GREVILLEA ROBUSTA

2 in., \$2.00 per 100. Per 100
Snapdragon, 2 in.....\$2.00
Ampelopsis Veitchii, 2 in.....2.00
Smilax, 2 in.....2.00
Vinca Variegata, 2 in.....4.00
Cryptomeria Japonica, 2 in.....3.00
4 in.....8.00

Also Scarlet Sage, Sweet Alyssum, Verbenas, Astara, Cosmos, Geraniums, Asparagus Sprengeri. E. I. RAWLINS, QUAKERTOWN PA.
Mention the Florists' Exchange when writing.

VIOLETS PRINCESS OF WALES

Unrooted cuttings, ready now, 50 cts. per 100; \$4.00 per 1000.

Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000.

ALYSSUM LARGE DOUBLE

SWEET, rooted cuttings, 75 cts. per 100; from 2-in. pots, \$1.50 per 100.

Please place your orders now.

FD. BOULON & SON SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

PANSY PLANTS

From our well-known strain. Large clumps, in bloom, \$1.50 per 100; \$12.00 per 1000. Large transplanted plants, \$4.00 per 1000. Good sized plants, \$2.50 per 1000.

DAISIES (Bellis), red and white, \$2.00 per 1000.

J. C. SCHMIDT CO., BRISTOL, PA.
Mention the Florists' Exchange when writing.

ROOTED CUTTINGS PREPAID PER 100

Giant Marg. Daisy, white; Ageratum, Gurney, 60c., \$4.00 per 1000; Alternanthera, red and yellow, 60c., \$4.00 per 1000; Coleus, best bedders, 60c., \$5.00 per 1000; Salvia, Bonfire, Splendens, 60c., \$3.00 per 1000; Alternanthera, best red, fine, 2 in., 1 1/2c. Cash. Satisfaction Guaranteed.

BYER FLORAL CO., Shippensburg, Pa.

Mention the Florists' Exchange when writing.

Alternanthera

Aurea Nana, yellow, Rosea Nana, red and Tricolor, dark brown.

IMPERIAL VIOLETS

Rooted Runners, \$1.25 per 100; \$10.00 per 1000.

Cash with order or satisfactory references.

Baur Floral Co., Erie, Penn.
Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION

PRICE, \$3.50 Send for Sample Pages

A. T. DE LA MARE PTG. & PUB. CO., 2-8 DUANE STREET, NEW YORK

CHRYSANTHEMUMS

Ready from Soil.
All Good Stock,
in Fine Condition

White		White		Pink		Yellow		
Per 100	Per 100	Per 100	Per 100	Per 100	Per 100	Per 100	Per 100	
Kalb..... 2.00	White Mayflower..... 2.00	Gobbolt, new..... 3.00	Monrovia..... 2.00	Wm. Thirkell, new..... 3.00	Robinson..... 2.00	Ivory..... 2.00	Yellow Eaton..... 2.50	W. T. Pockett, new..... 3.00
Polly Rose..... 2.00	Jerome Jones..... 2.00	J. A. Balfour, new..... 3.00	Major Bonnafton..... 2.00	Kimberly, new..... 3.00	Wanamaker..... 2.00	Ferrin..... 2.00	Col. D. Appleton..... 2.00	H. S. Vallis, new..... 3.00
Eaton..... 2.50	Duckham..... 3.00	Marte Liger..... 2.00	Yellow Jones..... 2.00	Omega..... 2.00	White Bonnafton..... 2.00	Lavender Queen..... 2.00	Yellow Mayflower..... 2.00	Oakland..... Red 2.50
Snow Queen..... 2.00	Pacific..... 2.00	Murdock..... 2.00	Golden Beauty..... 2.00	Black Hawk..... 2.50	Harry Plumridge, new..... 3.00	M. Newell..... 2.00	Mourner..... 2.00	M. Paul Labbie..... 2.50
	J. K. Shaw..... 2.00	Virland-Morel..... 2.00	Golden Wedding..... 2.50			Yellow-October Sunshine..... 2.00		

Write for Prices on Chrysanthemums in Larger Quantities

CARNATIONS

All in Fine Condition Well Rooted

PINK.		RED.		WHITE.		CRIMSON.	
100	1000	100	1000	100	1000	100	1000
Mrs. T. W. Lawson..... \$1 50	\$12 50	Estelle..... 2 50	20 00	Flora Hill..... 1 00	9 00	White Cloud..... 1 25	10 00
Guardian Angel..... 1 00	9 00	Chicago..... 2 00	15 00	Harlowarden..... 2 00	15 00		
LIGHT PINK.							
Enchantress..... 3 00	25 00						
Morning Glory..... 1 50	12 50						
Mrs. Higinbotham..... 1 25	10 00						

ROSES

Young Stock, ready to ship, out of 2½ in. pots. Fine, Healthy Stock

Per 100	1000	Per 100	1000
Bride..... \$3.00	\$25.00	Golden Gate..... \$3.00	\$25.00
Bridesmaid..... 3.00	25.00	Mme. Abel Chatenay..... 3.00	25.00
Meteor..... 4.00	30.00	Kaiserin..... 4.00	35.00

WIETOR BROS., 51-53 Wabash Avenue, CHICAGO, ILL.

Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Mertham Yellow, White Coombes, Enally Mileham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Duckham, the cup winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.

Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

BEST COMMERCIAL VARIETIES Per 100

Strong Plants, 2½ in.....	\$2 00
Vinea Var., R. C., \$1.00; 2½ in.....	2 50
Violet, Princess Wales, R. C.....	1 00
Carnation, R. C.....	\$1.50 to 3 00

Write for List at once.

SMITH & GANNETT, Geneva, N. Y. Mention the Florists' Exchange when writing.

20,000

CHRYSANTHEMUMS

As tender as a spring chicken. Finest stock in the country. Plants standard size. Samples free on application. Prices on application. Tell us what you want. Prices lowest.

HENRY EICHHOLZ, WAYNESBORO, PA. Mention the Florists' Exchange when writing.

Chrysanthemums

ROOTED CUTTINGS

Lord Hopetoun, Ben Wells, Lella Filkins, E. Bonnefont, Cecil Cutts, Vivland-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Nellie Pockett, Percy Plumridge, A. J. Balfour, M. Lamond, Thirkle, White Bonnafton, Mrs. Chamberlain, C. H. Diederichs, Dr. Enguehard, Cheltoni, Ida Barwood, S. T. Wright, Chevrons, \$3.00 per 100.
Bonnafton, Mrs. Jerums Jones, Yellow Jones, Col. Appleton, Mrs. Robinson, Lady Harriet, Halliday, F. S. Vallis, Mrs. Coombes, Cinna, Mrs. T. M. Pockett, Marie Liger, M. Donillet, Paul Sahut, R. H. Pearson, Dalakov, Ivory, Bocaase, M. Richardson, Tancred Bastet, Fee Du Champsaur, Mrs. Ferrin, Mrs. Weeks, Col. Powell, Mayflower, C. J. Salter, White Maud Dean, Golden Wedding, Marian Newall, Mounier, \$2.00 per 100.

CARNATIONS

ROOTED CUTTINGS.

100	1000	100	1000
The Belle.....	\$8.00 \$50.00	Mrs. Patten.....	\$8.00 \$50.00
Flamingo.....	6.00 50.00	Enchantress.....	3.00 25.00
Nelson Fisher.....	6.00 50.00	Boston Mark.....	1.50 20.00
		Lawson.....	1.50 12.50

FERNS—Boston Ferns, 2½ in., \$4.00 per 100; 6 in., \$40.00; 7 in., \$90.00.

Cash or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings from cool grown stock of the following varieties

AMERICAN BEAUTY, globular, dark pink; Wm. DUCKHAM, DR. ENGUEHARD, \$4.00 per 100.

MERRY MONARCH, white and yellow; W LLOWBROOK, POLLY ROSE, PAFICIF, R. HALLIDAY, IVORY, ROBINSON, NELLIE POCKETT, BONNAFTON, YELLOW EATON, LINCOLN, MAUD DEAN, MERRY CHRISTMAS, \$1.50 per 100; \$12.50 per 1000.

Cash with order, please.

G. F. NEIPP, Jamaica P. O. Woodhaven Station Aqueduct, L. I., N. Y.

Mention the Florists' Exchange when writing.

Chrysanthemums

Dr. Enguehard, Mrs. T. W. Pockett, Cheltoni, Mrs. C. J. Salter.

Transplanted cuttings from soil, \$5.00 per 100. Rooted cuttings from sand, 4.00 per 100.

Wm. Duckham, Alice Byron, Goldmine, Carlington, Yellow Jones, Yellow Eaton, A. J. Balfour, Merry Christmas, W. Bonnafton.

Transplanted cuttings from soil, \$4.00 per 100. Rooted cuttings from sand, 3.00 per 100.

Mutual Friend, Nellie Pockett, G. S. Kalb, Bergman, Mrs. J. Jones, Mrs. H. Robinson, Eaton, White Ivory, Polly Rose, McArthur, Whildin, Halliday, Bonnafton, Marion Henderson, Appleton, Golden Wedding, W. H. Lincoln, Mrs. Chamberlain, Pink Ivory, J. K. Shaw, Maud Dean, President Smith, Helen Bloodgood, Glory of the Pacific, The Harriot, Intensity, Black Hawk.

Transplanted cuttings from soil, \$2.00 per 100. Rooted cuttings from sand, 1.50 per 100.

CARNATION CUTTINGS

Queen Louise, F. Joast, Challenger, \$1.50 per 100, \$12.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Prosperity, Fair Maid, \$2.00 per 100, \$15.00 per 1000; Harry Fenn, Harlowarden, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.00 per 100, \$25.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000. 250 at 1000 rate.

ROOTED COLEUS CUTTINGS

Golden Bedder, Firebrand, Verschaffeltii and mixed colors, 75c. per 100, \$6.00 per 1000.

ROSES

2½ in. pots, \$3.00 per 100, \$25.00 per 1000. Bride, Bridesmaid, Ivory and Golden Gate.

GRAFTED ROSES

On imported English Manetti Stock, nothing but flowering wood used. Bride and Bridesmaid, Golden Gate, \$10.00 per 100; \$100.00 per 1000. Liberty, \$12.00 per 100; \$120.00 per 1000.

JAMES E. BEACH, 2019 Park Avenue, BRIDGEPORT, CONN. Mention the Florists' Exchange when writing.

THE MONEY-MAKING CHRYSANTHEMUMS ARE

POMPONS

They are becoming very popular, and a necessity to every florist. To reduce a large stock WE MAKE THE FOLLOWING OFFER, for only a few days:

Our Selection from the Best Varieties for Florists' Use, \$2.50 per 10; \$20.00 per 1000.

NATHAN SMITH & SON, - Adrian, Mich.

CHRYSANTHEMUMS

ROOTED CUTTINGS

It is cheaper to buy rooted cuttings now than pot plants next month.

Per 100	Per 1000	Per 100	Per 1000
Wm. Duckham.....	\$3.00	Miss Alice Byron.....	\$2.00
Black Hawk.....	1.50	Nellie Pockett.....	2.00
Appleton.....	1.50	Mrs. Coombes.....	1.75
Cremo.....	1.50	Mrs. H. Robinson.....	1.75
Dazzler.....	2.00	Mutual Friend.....	1.50
Glory of Pacific.....	1.50	October Sunshine.....	1.50
Lady Fitzwygram.....	1.50	Polly Rose.....	1.75
Bonnafton.....	1.50	Timothy Eaton.....	1.75
Maud Dean.....	1.75	White Bonnafton.....	1.50

GRAFTED BRIDE AND BRIDESMAID ROSES

\$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR, SOUTHPORT, CT.

The New Early Yellow EASIGOLD

Season October 8 to 12

Easy to propagate. Easy to grow. Easy to sell. Blooms brought \$2.50 per dozen in Boston market. If you are tired of the soft, flabby varieties lately disseminated, try EASIGOLD—It's "hard as nails" and unexcelled in its season.

It takes the market well and is likely to be a valuable commercial sort. The name is certainly all right for such a variety. W. N. CRAIG.

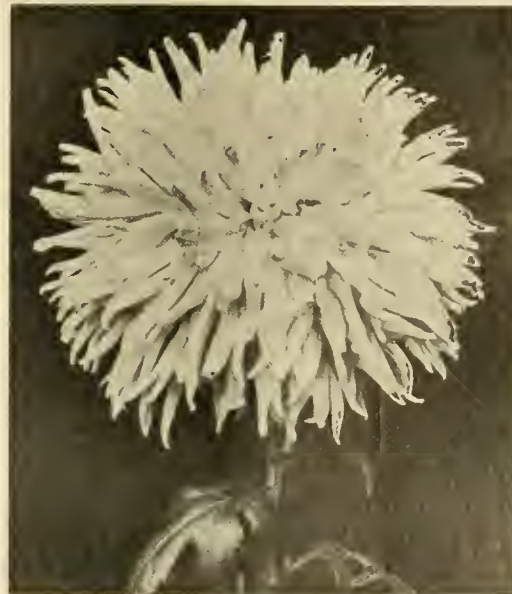
APRIL DELIVERY Doz., \$3.00; 25 for \$5 00; 50 for \$9.00; 100 for \$15.00.

May Delivery Doz., \$3.00; 100, \$12.00.

Jane Delivery Doz., \$2.00; 100, \$8.00; 1000, \$50.00.

Cash with order, please.

RIVERSIDE GREENHOUSES Auburndale, Mass.



BOSTON FERNS NICE YOUNG STOCK \$10.00 per 1000.
ZAMIA INTEGRIFOLIA
 \$12.00 per 1000.
 Shipped by freight. Send money order on Little River, Fla.
SOAR BROS. Little River, Fla.
 Mention the Florists' Exchange when writing.

Boston Ferns
 Extra fine stock, out from bench, now ready for 5, 6, 7, 8-inch pots at \$26, \$50, \$75, \$100 per 100. Kent's, Rubbers, Asparagus, Plumosea, Nana. Cash or references, please.
L. H. FOSTER, 45 King St. DORCHESTER, MASS.
 Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

The Care of Young Stock.

At this, his busiest time, the grower is very apt to overlook the needs of his young, fast-growing stock. The preparations for Easter cannot be slighted; we cannot afford to neglect anything now that promises to recompense us for all the care and vigilance exercised for months. When we have our heads and hands full with all the details of our Easter business, a great deal of work, also demanding our closest attention at this time of the year, will be considered of less importance, will be postponed, or only half done; and thus it happens that, while we add a few dollars more to the gain in one place, we lose a good many dollars in another. Then, too, the stock for this late Easter takes up a lot of our most valuable bench room, and this at a time when it is badly needed for the thousand and one things which constitute the plantsman's stock-in-trade, all of it demanding more room, air and light.

Hotheds and cold frames furnish an outlet for much of the stock, and never before have I seen so many outdoor frames put up as this Spring. But in shifting plants from the houses to these frames some judgment should be exercised. The fact that some of the tender plants, such as geraniums, coleus or alternanthera, are most in need of more room, should not lead the grower to adopt the unwise measure of transferring such plants to the outdoor frames first of all. If the weather be ever so warm and Spring-like, a good gardener knows the date and is not easily deceived by an alluring premature spell of warm weather, which induces a rapid, tender growth and renders the plants all the more susceptible to injury by a belated heavy frost, which may at this season be expected at any time. There are any number of other more hardy plants which would be greatly benefited by a transfer from the houses to the frames, that could with proper protection be safely carried through any severe and prolonged spell of bad weather. In this manner, more room for the tender plants in the greenhouse would be gained, and the cautious grower runs no risks.

In the effort to gain space and in order to clear a much needed bench, many varieties of half-hardy plants, being perhaps thoroughly pot-bound, are planted into the field altogether too early, because the sunshine of early Spring and a balmy air has made the grower believe that Winter has gone and Summer has come. Ever since, some eight or ten years ago, I lost about five thousand of my best carnations by a heavy frost very late in April, a few days after they had been planted out, taken directly from a warm greenhouse bench, I practice patience, and am ready to advise care and caution. Unless the young plants of asters, carnations, etc., are well hardened off in outside frames, they should not be planted in the field before the last week in April or the beginning of May.

Much stock of this class is grown in small pots—a good way to raise them. If they can be planted out before they become too root-bound or if the time can be spared to give them another shift into larger pots—but a bad plan if this cannot be done. In the earlier days of Spring, with all the ventilators wide open, it is almost impossible to keep any batch of 2-inch potted plants in good shape. Some of the kinds, after a most thorough drenching, will again be killing dry in a few hours, and the man in charge, knowing that they have been watered, will not get around to them until next day. Here lies the cause of much failure, much disappointment, much loss. If such stock is undergoing this kind of retrograde culture for any length of time, it finally ceases to grow, becomes a most inviting prey to insects and disease. Its roots become a shriveled, inert, lifeless mass, and the very best of subsequent treatment will fail to make these plants profitable stock or even worth having.

If the young stock was worth the raising and is of any value at all it deserves to be taken good care of; and if the time cannot be spared for the proper treatment of all the plants under culture, it is plain that the grower, in his greediness, has undertaken more than he can creditably carry out; or that, in his perversity, he has been unable to secure the ideal employees—one as great a drawback to good gardening as the other. By far the best way to save young stock that is pot-bound and total or partial ruin is to take the plants out of the small pots before the roots become matted and to heel them into some loose material such as spent hops, decayed manure, moss or even porous soil, if possible in a cold frame. Here they can stay until they can be safely planted out and can be kept in good shape with ease and little labor. If they are fast-growing, healthy plants they will, in any of these materials, form an abundance of nice, white new fibers around the ball of earth, which, in planting out, will take a hold of the soil at once. It takes less time to follow this plan than to repot the plants, and it is in every way better for the young

EMERSON C. McFADDEN

Wholesale Florist and Grower
 Specialties
ASPARACUS-SMILAX-ROSES
 Tel. 28 A SHORT HILLS, N. J.
 Mention the Florists' Exchange when writing.

EXTRA FINE JARDINIERE FERNS

3 inch \$3.00 per 100, 3 1/2 inch, \$4.00 per 100.
 1000 feet 4-in. Cast Iron Pipe as good as new, 7 cents per foot.

J. W. HOWARD, 330 B'way, Somerville, Mass.
 Mention the Florists' Exchange when writing.

LONGIFLORUM LILIES

Dwarf plants, perfect foliage, cool grown. Ideal plants for retail trade, 12 1/2 cents, cut or in pots.
 Spiraea Multiflora Compacta and Plumosa, Alba, 50c. and 75c.
 Narcissus, single and double, 6 in. \$3.00 per dozen.
 Deutzia Gracilis, 6 in. \$3.00 per dozen.
 Terms cash. Nothing sent O. D. unless one-half cash accompanies the order.

TAUNTON GREENHOUSES
 L. D. Tel. 357-2 Taunton, Mass.
 Mention the Florists' Exchange when writing.

LILIES

Have a fine lot of LONGIFLORUM. Plants are nice and green from pots to the flowers. In the very best condition. Will be just right for Easter. Selling at 12c. a bud, cut or potted. Cash with order.

E. WICKERSHAM & CO.
 POTTSTOWN, PA.
 Mention the Florists' Exchange when writing.

SPECIAL OFFER

LILIES—CLEMATIS

Lilium Auratum bulbs, connd and in prime condition. Per 100 100c.
 Good sized bulbs.....\$5.00 \$45.00
 Large bulbs..... 6.00 60.00

CLEMATIS. Home-grown plants in good condition. Per 100
 Jackman, 2-year old..... \$18.00
 " 2-year, medium..... 10.00
 Henry, 2-year old..... 18.00
 " 2-year old..... 14.00
 Mme. Ed. Andre, 2-year old..... 18.00
 " 2-year old, medium..... 16.00

V. H. HALLOCK & SON, QUEENS, N. Y.
 Mention the Florists' Exchange when writing.

70,000 Blooming Plants FOR EASTER

20,000 pots Lilium Longiflorum, 12 cts. per bloom.
 4,000 Crimson Rambler Roses, trained in unique and artistic designs, \$1.00 to \$25.00 each.
 10,000 Azaleas, 75 cts. to \$15.00 each.
 3,000 Hydrangeas 75 cts. to \$5.00 each.
 3,000 Spiraeas, \$4, \$5 and \$6 per doz.
 3,000 Rose Plants, \$6.00, \$9.00 and \$12.00 per doz.
 Rhododendrons, \$1.00 to \$15.00 each.
 Genistas \$6.00, \$9.00 and \$12.00 per doz.
 Matrosideros (Bottle Brush), \$1.00, \$1.50 and \$2.00 each.
 A large assortment of Hyacinths in pans, \$9.00 and \$12.00 per doz.
 Wistarias, and other blooming plants.
 Cash or Reference

H. C. STEINHOFF
 WEST HOBOKEN, NEW JERSEY.
 Mention the Florists' Exchange when writing.

EASTER LILIES EASTER

60,000 Lilies Ready. Stock superb. Per 1000, \$125.00.

Also **Hydrangea Otaksa**, 3 to 16 blooms, at 25c. per bloom.
Azaleas, all sizes, from 50c. to \$3.00 each.
Spiraea Gladstone, Rhododendrons, Deutzias, Genistas, Hyacinths, Tulips.
Daffodils in pots and pans.

CUT FLOWERS

Roses, Carnations, Cut Lilies, Tulips, Daffodils, Asparagus, Smilax, in any quantity.

PRICES RIGHT.

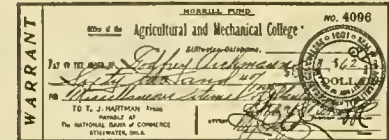
LAKEVIEW ROSE GARDENS, Jamestown, N. Y.
 Mention the Florists' Exchange when writing.



Headquarters for Easter Plants

Blooming Easter Week, or before if desired. Now ready for immediate shipment. I am noted and have a reputation for the past fifteen years for raising and shipping Choice Easter Plants throughout the land. Nine houses and ever so many hot-beds crowded with them, in better condition than ever before.

Azalea Indica. My specialty; 3 houses full of my own importation, the cream of Ghent productions. We sell none in the Fall; therefore they are not picked out for the Fall trade. We force them only for our customers' Christmas and Easter trade. Mme. Van der Cruyssen, the people's choice, the best of all pink varieties. Plants covered with buds, as round as an apple, 60c., 75c., \$1.00, \$1.25, \$1.50 to \$2.00 each. Other best varieties, all shades. White, double white; Bernhard Andreae Alba, white; Empress of India, Professor Waltere, Illustre, Paul Weber, Joseph Vermoir, and many others, 60c., 75c., \$1.00, \$1.25 to \$1.50 each.
Lilium Harrisoni and Japan Multiflorum. H. F. Michell's special bulb; 6 in. pots, 5 to 6 buds to a plant, 10c. per bud. Under 5 buds, 12c. a bud.
Cineraria Hybrida. Best strain, all shades, 6 in. pots, \$2.00, \$3.00, \$4.00, \$5.00 per doz.
Hydrangea Otaksa, pink (a fine white including), 6 in. to 7 in. pots, \$1.00, \$5.00, \$6.00, \$9.00 to \$12.00 per doz.
Spiraea. Two houses full. Floribunda, Japonica and Blondine, 6 in. pots, large bushes, \$3.00, \$4.00, \$5.00 per doz. Compacta, \$2.00 to \$3.00 per doz. Gladstone, unusually fine this year, full of buds, perfect jewels, \$6.00, \$7.00, \$9.00 per doz.
Roses. American Beauty, 5 in. 36c. to 40c. each; 6 in. pots, bushy, 25 to 30 in. high, 50c. to 75c. each; Hardy Roses, including Hermosa, 5 in. to 5 1/2 in. pots, \$3.00, \$4.00 to \$5.00 per doz.
Begonia. President Carnot, Flambeau, three varieties in all, 6 in. pots, \$3.00 to \$1.00 per doz.; 4 in. pots, \$1.80 per doz.
White Daisies. 6 in., \$3.00 per doz.
Hyacinths. Raised from first-size bulbs. Grand Maitre, blue; Gertrude, pink; King of the Blues and La Grasseuse, white; \$12.00 per 100.
Double Narcissus or Von Sion. Double Nosed Daffodil, 3 bulbs in a 5 1/2 to 6 in. pot, \$2.00 per doz. pots. Tournesol, best selling double Tulip, 3 in a 4 in. pot, \$1.50 per doz. pots.
Araucaria Excelsa. 25 to 34 in. high, 4, 5, to 6 tiers, 7 in. pots, \$1.50 each.
Ficus Elastica (Rubbers), 6 to 7 in. pots, 25 to 35 in. high, \$6.00, \$9.00 to \$12.00 per doz.
Moon Vine. A. W. Smith's Hybrid, \$5.00 per 100.



The material ordered from you arrived in good shape. The bill has been O. K'd and sent in and will be paid shortly. Please accept my thanks for material sent gratis.
 O. M. MORRIS,
 Dept. of Horticulture,
 Oklahoma Agricultural and Mechanical College,
 Stillwater.

The shipment of plants ordered at you came duly to hand and I must say I am thoroughly satisfied with them. It is a great pleasure to get such stock.
 W. M. LINSAY,
 Linsay Floral Co., Birmingham, Ala.
 March 17, 1905.

The Azaleas you shipped me at different times during the past winter I have found to be most satisfactory plants and always ready sellers, as were also your Araucaria Excelsa. Am glad to know just what to look when in need of fancy stock.
 GEO. P. MERRIFIELD,
 Merryvale Greenhouses, Helena, Ark.

Many thanks for the prompt delivery and for the fine stock. The plants were all right and very satisfactory.
 HOFFMEISTER FLORAL CO.,
 Cincinnati, Ohio.

Mr. O. Aschmann has a very fine stock of Azaleas and other Easter plants. We can highly recommend Mr. Aschmann to our customers for fair and reliable business treatment.
 H. F. MICHELL CO.,
 1016 Market St., Philadelphia, Pa.

To save express charges, mention if plants are to be shipped with or without pots. Cash with order, please. No references. All goods must travel at purchaser's risk. Bell telephone, Triga 3669A. My place can be reached by trolley in twenty minutes from City Hall; take 13th or 6th st. Germantown Car.

WHOLESALE GROWER AND IMPORTER OF POT PLANTS
GODFREY ASCHMANN,
 1012 PHILADELPHIA, Pa.
 MENTION THE FLORISTS' EXCHANGE WHEN WRITING.

2000 CHATENAY

FOR SALE

Fine Plants

2 1/4 inch pots, \$4.00 per 100

Cash with order, please

BENJAMIN DORRANCE

DORRANCETON, PA.

Mention the Florists' Exchange when writing.

KAISERIN

ROSE CUTTINGS

\$15.00 per 1000

S. S. PENNOCK

THE WHOLESALE FLORIST OF PHILADELPHIA

Mention the Florists' Exchange when writing.

50,000 ROSES

Kaiserin, La France, Perle, Hermosa, Clothilde Soupert, Cochet (pink and white), Ivory, 3 in. pots, \$4.50 per 100; \$40.00 per 1000.

5,000 MOON VINES

3-in. pots, \$5.00 per 100; 2 1/4-in., \$3.50 per 100.

10,000 COLEUS

\$2.50 per 100; \$20.00 per 1000

SIX BEST BEDDING VARIETIES

J. D. BRENNEMAN

Box 24 HARRISBURG, PA.

Mention the Florists' Exchange when writing.

Crimson Rambler Roses

Immensely loaded with buds, clean and healthy, 50c., 75c. and \$1.00 each. Clothilde Soupert and Helen Gould Rose plants, 4 in., \$1.75 per doz.

Prinula Obconica, with many flowers, 5 in., \$10.00 per 100. Hydrangea Otaksa, 10c. per bud. PANSIES, Bugnot and Cassel's strain, large, transplanted plants from cold frames, 50c. per 100, by mail: \$3.00 per 1000, express. Extra large clumps in full flower, \$1.00 per 100.

All of the above right for Easter.
C. WHITTON, City St., Utica, N.Y.

Grafted Roses

Bridesmaid, Bride, Bon Silene and Safrano, \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbold, \$2.50 per 100.

STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses
NEWTONVILLE MASS.

ROSES

2-year old, 4 in. pots, \$8.00 per 100. American Beauty, 4 in. pots, \$10.00 per 100. Roses, 2 1/2 in. pots, \$2.25 per 100, \$20.00 per 1000. Carnation Richmond Gem, 2 1/2 in., \$10.00 per 100. Also other good varieties, \$2.50 per 100, \$20.00 per 1000.

Asparagus Plumosa, 2 1/2 in., \$2.50 per 100

" " 4 in., \$10.00 "

" " Sprengeri, 2 1/2 in., \$2.50 "

Alteroantheras, \$2.00 per 100; \$18.00 per 1000.

Hardy Pinks, Hardy Phlox, 3 in., \$4.00 per 100; 2 in., \$2.50 per 100.

Heliotropes, Salvias, Periwinkle, English and German Ivy.

Fuchsias, Ageratum, Flowering Begonias, Sweet Alyssum, Shasta Daisies, \$2.50 per 100.

Violets, Swanley White, Marie Louise, Princess of Wales, 2 1/2 in., \$2.50 per 100. Send for list.

THE NATIONAL PLANT CO., Dayton, Ohio

60,000 GRAFTED ROSES

For Forcing

THE FINEST GROWN

Orders booked now for delivery in April, May and June

LIBERTY Rose pots, \$12.00 per 100; 3 1/2 inch pots, \$18.00 per 100

BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN

Rose pots, \$10.00 per 100; 3 1/2 in. pots, \$15.00 per 100

500,000 VERBENAS

60 Varieties

THE LARGEST AND FINEST STOCK IN THE COUNTRY
Perfectly Healthy No Rust

PRICE: Rooted Cuttings, 60 cents per 100; \$5.00 per 1000

Plants 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000

J. L. DILLON Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

LIKE FINDING MONEY

are the prices we will quote on large lots of the following

Roses

Strong, Field-Grown Plants, on Own Roots

CRIMSON RAMBLER
DOROTHY PERKINS
LA FRANCE

PRICE, FOR MODERATE QUANTITIES

(and not less than 25 of a kind)

\$9.00 per 100

IF YOU CAN USE 500 OR MORE OF ANY ONE KIND, get our special prices. They will surprise you. We are over-stocked with these kinds and the first comers get the benefit. They are fine stock.

Send for our complete price list. There are other bargains in it. Use printed stationery. We send it only to the trade.

JACKSON & PERKINS CO. NEWARK, NEW YORK

Mention the Florists' Exchange when writing.

The Fine New Pink ROSE LA DETROIT

2 1/2 in., \$8.00 per 100; \$75.00 per 1000
3 1/2-in., \$12.00 per 100; \$100.00 per 1000

The Three Grand New CHRYSANTHEMUMS

MAJESTIC, ADELIA and MADONA

2-in. pots, \$3.00 per doz.; \$15.00 per 100

Three Fine SNAPDRAGONS,

WHITE, PINK and YELLOW

\$6.00 per 100; \$50.00 per 1000

WHITE LAWSON CARNATION

From 2-in. pots, \$6.00 per 100; \$55.00 per 1000

JOHN BREITMEYER'S SONS DETROIT, MICH.

Mention the Florists' Exchange when writing.

ROSES

CARNATIONS and
CHRYSANTHEMUMS

Write For Prices

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

READY NOW

Gen. MacArthur

The most prolific flowering Red Rose in the market to-day. Grows finely in same temperature as Bride or Bridesmaid, and will produce fully as many first-class flowers as either.

2 1/2 in. pot plants, own roots, \$10.00 per 100; \$80.00 per 1000.

Strong grafted stock, from 3 in. pots, \$12.00 per 100.

THE STORRS & HARRISON CO., Painesville, O.

Mention the Florists' Exchange when writing.

New Rose Wellesley

Own Root Plants,
\$25.00 per 100.

Waban Rose Conservatories, NATICK MASS.

John N. May, Summit, N. J.
Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Mention the Florists' Exchange when writing.

LIST OF ADVERTISERS

Table listing various advertisers and their contact information, including names like Akers H R., Allen J K., and Anderson & Christen.

Table listing advertisers in the middle column, including Smith & Gaanett, Sonr Bros, and Stearns A T Lum Co.

INDEX TO STOCK ADVERTISED

Index to stock advertised, listing botanical names such as Abutilon, Achillea, and Ageratum with corresponding page numbers.

Table listing advertisers in the right column, including Vaughan's Seed Store, Vaughn & Sperry, and Vick's Sons Jaa.

Table listing botanical names and their corresponding page numbers, including Aconitum, Adonis, and Agrostis.

BOOKS

Table listing books for sale, including 'GARDENER'S ASSISTANT' for \$15.00 and 'Cultural Directions' for \$1.50.

They Harm

WHEN THEY SHOULD HELP
The up-to-date florist has no use for that member of his profession who, running counter to all the prescribed rules of good business, cuts his prices, or, worse still, gives away his goods for nothing, or next to nothing, in an effort to gain trade.

The same up-to-date florist, to be consistent, should have no use for any medium which, established presumably to further his interests along all legitimate lines, inserts his competitor's advertisements free, or at a greatly reduced rate to that which he himself is being charged.

The man who gives away his stock free, and the paper that prints its advertisements free are on a par—both are drawbacks to business. It's their prerogative, of course, to conduct their own affairs in this unbusiness-like manner; but both harm; they never help.

You get a fair show to sell your goods on an equal footing with your competitor when you advertise in The Florists' Exchange. We carry no Dead Heads in our columns. Our advertisers do business on up-to-date business methods; they pay for their advertising space; are satisfied with doing so; because that paid for advertising space pays them.

The Florists' Exchange has a higher opinion of the trade it represents than to consider any member engaged in it an object of charity. It puts a higher estimate on the craftsman's business acumen and standing than to insult them by even offering to insert their advertising for nothing, or next to nothing. It has a higher opinion of its own value than to consider that its advertising space is not worth paying for.

You are in good progressive company when you join The Florists' Exchange advertisers. You pay for the work The Florists' Exchange does for you; and that work is always well and effectively done. In short,

Advertising in The Florists' Exchange Pays the Advertiser. Because the paper is conducted on legitimate principles. A trial will convince you that this is so.

BIG BUSINESS ASSISTANT TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED Cultural Directions COVERING A NUMBER OF THOSE PLANTS AND BULBS MOST LARGELY IN DEMAND

The following 'Culturals' are now ready: AMARYLLIS (Hippeastrum), ANNUALS FROM SEED, ASPARAGUS, BIGNONIA, TUBEROUS, BROMELIAD, CHINESE SACRED LILY, CHRYSANTHEMUM, CLIMBING PLANTS, Hardy COLEUS and other Bedders, CROCUS, Snowdrop and Scilla Sibirica, DAHLIA, FERNS, FRESIA, GERANIUM, GLADIOLUS, GLOXINIA, HOUSE PLANTS, Care of HYACINTHS, Dutch and Roman, IRIS AND TRITOMA, LAWNS, LILY CULTURE for House and Garden, MUSHROOM CULTURE, PALMS, House Culture of PANSY, PERENNIALS, Hardy PRIMULA, ROSE CULTURE, SWEET PEA, The TUBEROSE, TULIP, VEGETABLES, WATER GARDEN, How to Make and Manage a

THE AMERICAN CARNATION Price, \$3.50 A. T. DE LA MARE PTG. & PUB. CO. LTD. 2 TO DUANE STREET, NEW YORK

Chicago.

News Notes.

The growers in and around the city will have a fine collection of lilies and other flowering plants for Easter. A few firms have been unable to hold back their stock, which will cut down the supply considerably, but without doubt the quantity will be equal to, if it will not surpass that of former years. There will not be such a large quantity of tulips, as the growers of these have found it impossible to hold them to this date.

The E. P. Winterson Company is receiving large shipments of Southern grown bulbous stock. The firm reports trade in shrubs and hardy herbaceous stock beyond expectations.

The Benthley-Coatsworth Company anticipates a fine cut of roses for Easter trade.

George Reinberg will have a fine crop of American Beauty ready.

Mr. Howe, of The Howe & Taylor Wire Manufacturing Co., has sold his interests in the firm to Mr. Taylor, who will continue the business at the firm's stand in the Flower Growers' Market.

A. G. Prince, formerly in the wholesale business here, was in the city the other day buying materials for a large range of glass which he is to erect in Iowa City, Ia.

Geo. F. Crabb, of Grand Rapids, Mich., was also in town for a few days this week, looking over the Grand Rapids Floral Company's stand in the Flower Growers' Market.

P. J. Foley and James Hartshorne, of Joliet, were at Springfield, lobbying in the interest of the Florist State Appropriation bill. From latest reports everything looks favorable for its passage.

Geo. Wienhoeber is expected home from his European trip this week. Hopes are entertained that he has fully regained his health.

Harry Papworth, of New Orleans, La., was in consultation with the building and construction people here. He contemplates building.

A well-attended meeting of the club was held on Thursday night.

Arnold Ringier is home from his Western trip well satisfied with the trade outlook.

Stollery Brothers have an Easter novelty in the form of a hollow earthenware egg, which can be filled with water, and overgrown with grass. An opening allows one to place any kind of small flowers in the egg, making it an attractive object for retail work.

R. J.

St. Louis.

News Notes.

Henry Berning has been sick all of the past week, but is reported somewhat better.

Carl Beyer has been confined to his room for the past ten days with a sprained foot; from last accounts he was improving and will be out bowling soon again.

George Augermiller, who opened his new commission house last week, is doing a nice business, and is receiving quite a little stock of good quality.

For the grand opening of a large retail furniture house this week, Ostrtag Bros. had a dozen large floral designs to furnish.

Ed. Gerlach is now head man at Kuehn's wholesale house.

C. C. Sanders reports a large order for trees and shrubs from the city, to be used in the parks.

At Union Market all the flower stands are open for business, and good sales are reported.

The stores of Walbart, Byers, Weber, Ellison, Kallish and Miller are making attractive displays of blooming plants. The plant trade is reported good at these places.

Fred Meinhardt, the Koenig Floral Co. and the rest of the florists up near the cemeteries report a heavy demand for planting, with more orders ahead than they can attend to.

O. R. Beneke, son of J. J. Beneke, is spending four weeks at Hot Springs, Ark. He is expected back by the end of this week.

The Sunday law is in full force here, and they say that the florists come under its operations. It will be quite a novelty for the boys to stay home a full day Sundays, especially those along Grand avenue, where some of them never close.

Joseph Hensel, who has a store at

Taylor avenue and Olive street has bought the place of J. H. Billington at 5700 Easton avenue. Mr. Billington will leave for Washington, D. C., soon, to fill a Government position in the Department of Agriculture.

Nine florist bowlers rolled three games on Monday night. Theo. Miller was high with 504; Beneke and Kuehn tied for second, with 491; Fred Weber came in third, with 443. Robert Meinhardt and Henry Lohrens joined the club Monday night. ST. PATRICK.

New Bedford, Mass.

News Notes.

The Florists' Club held its monthly meeting last Monday night, most of the members being present. Richard E. Noffitz gave an interesting talk on bulb culture, which was followed by a general discussion.

Spring planting has now commenced in earnest, and large gangs of men are at work, both in the parks and commons. R. H. Woodhouse has secured the contract for planting some 500 trees in the town of Dartmouth. This work is under the direction of the Dartmouth Improvement Society.

H. A. Jahn has a fine white carnation seedling which local growers say excels White Lawson.

Lilies will be all right for Easter, while other bulbous stock and azaleas are being retarded. Easter coming so late this year, a good many flowering plants, such as primroses, cyclamen, etc., will be past their blooming season. Everything points to a good trade, with a plentiful supply all round.

HORTICO.

Worcester, Mass.

News Items.

There seems to be no end of new stores on or near Main street. Within a distance of less than half a mile there are ten florists. H. E. A. Lange is the last one to come into line and open up a second store. He has started a flower department in a grocery store, just opened.

The Worcester Conservatories have also made a new departure. They have opened a retail store, and placed on the street one of the handsomest turnouts of the kind in Worcester.

If Easter stock proves abundant prices will have to be dropped to close out the goods.

Horticultural Hall has seen a new experiment tried—evening lectures. The attendance has not been large, but A. A. Hixon, secretary of the society, was much encouraged with the way the public grasped the new idea.

CAROLUS.

Newport, R. I.

News Notes.

Charles E. Wheeler, representing the Bowker Insecticide Company, of Boston, Mass., was with us this week and secured many orders for his firm's specialties. J. C. Hillebrand, of the General Bulb Company, of Vogelenzang, Holland, made his yearly call a few days since. The Eastern Chemical Company, of Boston, Mass., who have been introducing their various concentrated fertilizers here for several seasons, were again looking after their trade last week here through their D. M. Pray. Henry A. Dreer, of Philadelphia Pa., was represented here last week by F. W. Creighton, who is very much pleased with the general outlook in all sections for a fine season's business.

F. W.

Cleveland, O.

News Notes.

The flower stands in the new market house are beginning to take on some life, with the approach of Easter. The ladies who control these stalls vie with one another in making their places gorgeous and showy. About four or five days before Easter a show will be held by these ladies, with orchestral music to enliven the proceedings. Charlesworth's store, on Euclid avenue, is well stocked with all sorts of salable plants. Smith & Fetters held their opening Monday, the 10th, at their new store. The interior decorations are superb. Gordon Gray says his orders for vases and baskets are coming in rapidly.

O. G.

THE STANDARD TREATISE ON GARDENING.

THE GARDENER'S ASSISTANT

New Edition.

UNDER THE DIRECTION AND GENERAL EDITORSHIP OF

WILLIAM WATSON

Curator, Royal Gardens, Kew.

Thoroughly Up-to-Date; The Recognized Authority on Gardening; Most Distinguished Contributors; Lavish in Illustration; Indispensable to Practical Florists and Gardeners, to Country Gentlemen and the Amateur. A Complete Encyclopedia of Gardening. The Leader Among Gardening Books.

For the past half-century THE GARDENER'S ASSISTANT has maintained its unique position as the standard treatise on practical and scientific horticulture.

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THE GARDENER'S ASSISTANT is a compendium of all operations of the garden and arboretum; from the formation of the garden and plant-houses to the cultivation of all kinds of plants, whether for use or ornament: trees, shrubs, herbaceous and alpine plants, stove and greenhouse plants, orchids, ferns, succulents; fruit, both under glass and in the orchard or kitchen-garden, and vegetables of all kinds.

Everything has been done that could be done to elucidate the text by the free use of illustrations. These represent recent gardening appliances, houses, heating apparatus, flowers, trees, diagrams, schemes for laying out the garden, methods of pruning, etc. In fact, wherever a picture would be useful a picture is given. Moreover, in addition to the black-and-white text illustrations, there are twenty-five full-page black-and-white plates, and eighteen colored plates of flowers and fruits, specially prepared for the work by eminent artists.

THE FIRST PORTION of the work deals with GENERAL PRINCIPLES; THE SECOND PORTION is devoted to directions for the CULTIVATION OF DECORATIVE PLANTS OF ALL KINDS—stove, greenhouse and hardy trees, shrubs and herbaceous plants; THE THIRD PORTION treats upon FRUIT CULTIVATION in all its branches, both under glass and outside; and THE FOURTH PORTION upon the GROWTH AND MANAGEMENT OF VEGETABLES AND HERBS.

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Seedsman and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 505.

News of the Week in Brief.

We are credibly informed that wild smilax will be scarce for Easter.

There are good prospects of the appropriation bill in favor of the Illinois florists being passed.

The Sunday closing law in St. Louis is in full force; it is said the florists come under its operation.

Our obituary column this week contains the names of Col. Nicolas Pike, William Paul, Charles O. Saunders and E. H. Howland.

Present indications are that stock for Easter will be in sufficient supply to meet the demand. In some of the Western cities bulbous flowers and violets are expected to be short.

W. Atlee Burpee & Co. and The Florists' Exchange have each subscribed \$10 to the Eckford Testimonial Fund. Prompt remittances by others desirous of contributing to this fund are respectfully requested.

A thunder-storm passed over Pittsburg and vicinity this week, doing much damage to greenhouse glass. The storm recalled the memorable one in the same locality in 1893. Some of the ice balls measured 5½ inches in circumference.

Vice-President J. R. Freeman, of Washington, D. C., presided at the meeting of the Board of Directors last week, in the absence of President Vaughan, who was unable to attend owing to the illness of Mrs. Vaughan. The board was entertained at a banquet by the local florists. The program for the August meeting, as so far outlined, appears in this issue. Treasurer Beatty will offer a prize for the best essay on "The Ideal Employer."

THE NEWPORT (R. I.) HORTICULTURAL SOCIETY met last Wednesday evening in Mercury Hall. President Sullivan was in the chair, and a very large gathering of members was on hand. A long list of new members was acted upon, and the following were unanimously chosen: Samuel Langford, Henry A. Burgess, Charles Ritchie, James Matson, William B. Scott, Howard Ward, Frederick J. Butt and William C. Elliott. The report of the advertising committee of 1904 was presented and accepted by the society; and a new committee elected to carry on the work so well begun last season. The chief duties of the evening were the correction and approval of the prize schedule for the Rose and Strawberry Show in June. It was also voted that after the present time all committees to award prizes at the shows of the society shall be residents of this county.

P. W.

THIS WEEK'S SUPPLEMENT.

The Sunken Garden, Fairmount Park, Philadelphia

The sunken garden, Fairmount Park, Philadelphia, has often been illustrated, its beauty and its unique feature making it an object of more than usual interest to almost everyone. This garden was made to add to the attractions of the Centennial Exposition in 1876; and as the late Charles H. Miller was in charge of the flower gardens at that time, it was, no doubt, his conception. That the idea was a good one, the admiration of all those that saw it in that year testifies, as does the fact that from that day to this it has been kept in exactly the same condition as it was then, the only changes occurring being the using of different plants from year to year.

The sunken garden, as the picture shows, is some four or five feet below the surface of the paths on its sides, so that the visitor looks down on the mass of color, and can see the whole formation at a glance. As will be seen, it is of great length, stretching away from Horticultural Hall, which appears in the illustration, toward what is known as George's Hill, though it really ends at one of the main thoroughfares through the park, Belmont avenue. One can stand at either end—that at Horticultural Hall or the one at Belmont avenue—and enjoy the treat the rare blending of color gives. The festooning of the banks, the ends of the festoons meeting in little circular beds of flowers, adds to the chief attraction, that of the central mass of flowers.

We can hardly enumerate all the varieties of plants that have been used there. Of course, there are certain sorts which must be employed for color effect, but there are changes every year, so that the same plants are not used in the same beds two years in succession. Alternantheras, echeverias, coleus, acalypha, variegated stevia, centaurea, crotons, cannas and like plants are used, and in flowering plants, mainly geraniums, the aim being the proper blending of colors to form a harmonious whole.

The planting out is done according to the hardness of the sorts used. Geraniums go out first, and crotons and coleus last, the last two being planted toward the close of May.

It was feared, at first, that in seasons of heavy rains the water would accumulate in the sunken garden, to the injury of the plants, and in its history this has occurred once or twice. Heavy rains late in Summer hurt a bed or two of coleus on two occasions, but the occurrence is so rare that it is but little feared.

The fine avenue of trees lining the bed is of the oriental plane. They are now grand specimens, having been planted at the time the bed was made. They are in exactly the position such a tree demands. There is ample room to develop; they enhance the imposing sight of the bed, and the seat beneath each one adds to the comfort of those who wish to sit down and admire the beautiful view presented.

JOSEPH MEEHAN.

Rosarians vs. Carnationists.

The New York Florists' Club on Monday evening last spent about a couple of hours, protracting its session until nearly midnight, in an endeavor to establish something, the definiteness of which had already been assumed, viz., "Why Are Carnation Growers More Progressive Than Rose Growers?" The assumption of greater progressiveness on the part of the men who cultivate the divine flower seems to have been prompted by the fact that at monthly meetings, both of the local club and elsewhere, when special nights had been set apart for the rose men to make a display of their specialty, they failed to materialize in the same numbers as did the carnation men when afforded a similar opportunity. The discussion also elicited the information that the effort to obtain new varieties of roses was not put forth by the American rosarian to the extent that it could and should be, having in mind the results, pecuniary and otherwise, accruing from successful work of this kind. The relative ease with which new varieties of merit of the carnation could be obtained, as against similar results from the rose, seemed to have little or no weight with the critics of the alleged non-progressive rose man in the general plea of progressiveness made for his quondam rival—the carnationist.

Some of the claims advanced in favor of the carnation men were: That "as a class, they were more liberal, more energetic and determined to push their flower to the front than are the rose growers. The rose grower has had the advantage (disadvantage) of having a certain amount of self-conceit, owing to the fact that the popularity of the rose has been of long standing, while the carnation grower knew that in order to get a standing he had to get out and hustle, and make things ring." The temperature necessary for the work of the rosarian was also set forth as militating against his progressiveness, making him less energetic than the carnationist, who basks in the blessing of a ten-degree lower temperature, thus stimulating his activity and enterprise.

So far as making displays at club meetings are concerned, we do not think that any fair comparison of enterprise can be made between the two specialists under consideration. Novelty is the attraction for the majority of club members; these the

carnation men can stage in numbers on the evening set apart for the purpose, whereas owing to the dearth of new varieties of roses, the rosarian is handicapped in this respect, and any display of standard sorts would create but a passing interest. At some general exhibitions, and even at some of the shows of the American Rose Society itself, however, the rose men have shown an amazing lack of the progressive spirit which usually goes with an intelligent class of cultivators, such as rose growers must necessarily be and are.

In regard to the endeavor to obtain new varieties of roses, superior to existing kinds, we can hardly agree that energy or desire in this respect is at a low ebb among the commercial florists of America. The work is at best a difficult, disappointing and discouraging one, essayed by many, successfully accomplished by a comparatively few. Our standard writers on the subject of multiplication of roses by seed have made special note of the drawbacks attending the operation by the commercial florist. Parsons, a recognized authority, says: "There is no branch of rose culture possessing more interest for the amateur, with whose leisure its prosecution is compatible. The constant care and attention (and, we would add, ability) required, in order to ensure success, place it in a great measure beyond the limits of a large commercial establishment," and certainly outside the effort of the majority, if not all, of the small ones, where profit in what is produced is the great desideratum.

Ellwanger says: "Roses of the past have, for the most part, been the product of nature unaided by the hand of man. * * * There are a few instances recorded where artificial crossings have been resorted to, with successful results, but the number of such operators has been very limited. * * *"

Foster-Melliar, an English author, says: "It is hardly worth while to undertake it (raising new roses from seed) except on a somewhat large scale; only a very small portion of the seedlings will be found worth anything at all, a good many coming single, and of those that are pretty good few will be found to be any advance upon existing kinds. A great deal of patience will be required; it is sometimes as much as six years before a representative bloom can be got, and two or three years more at least, perhaps twice the time, may elapse before a good stock of the sort can be worked up."

The lack of available information and instruction relative to the proper carrying out of the work in question has also been commented on by these authors. Ellwanger says: "Very few who have engaged in this work have given us any information that will be of use to those who wish to experiment." A similar condition, it is said, prevails in England. Whereas, in the case of the carnation, almost every grower of these plants has his "pet seedling," proving that the process of obtaining new varieties of carnations from seed is very generally understood and quite satisfactory results are often obtained.

Were the work of raising new roses from seed as easy of accomplishment as is the obtaining of new varieties of carnations by a similar process, we venture the assertion that the needed so-called progressiveness and intelligence on the part of the rose grower in America is available. And because that work is so precarious and difficult, we are inclined to give an extra modicum of credit to the men who have conquered the difficulties besetting their path, and who have given us something new in roses of which as a trade we can well be proud.

Any discussion of the nature of that indulged in by the New York Florists' Club so assiduously can not, we think, conduce to anything definite. It is a good thing, however, for all of us to have our shortcomings discovered and disclosed, to see ourselves as others see us, as it were. This leads to defects being remedied, deficiencies eliminated; spurs ambition, stimulates desire, and altogether tends to general advancement—especially when the way is shown how conditions can be bettered, which, unfortunately, as we see it, the discussion referred to failed to do—in the most vital points at least.

The American rose grower and the American carnation grower stand on one common plane, on an equal and gratifying footing, in that each has demonstrated, by his skill, that he can and does cultivate his specialty to a degree of excellence unsurpassed anywhere else in the world; that each has succeeded in gaining for his specialty a deserved popularity reached by few, if any other horticultural products. Progressiveness has entered very largely into bringing about this result. The same progressiveness continued will maintain, and we hope advance it; each moving forward and reaching out as fast and as far as the advantages, limitations and drawbacks of his work will permit.

The Eckford Testimonial.

The first American subscription toward the Eckford testimonial comes from Messrs. W. Atlee Burpee & Co., Philadelphia, and is acknowledged as under. Others interested in this movement (details of which were set forth in our issue of April 8, 1905, page 456), and desirous of helping it forward, will confer a favor by making a prompt remittance to this office, so that the total amount subscribed may be forwarded to the English committee, having the matter in charge, as soon as possible. The English admirers of the veteran sweet pea specialist have decided to make the fund a shilling one (25c.), and already a considerable sum has been subscribed.

Amounts acknowledged:
The Florists' Exchange.....\$10
Burpee, W. Atlee, & Co., Philadelphia.....10

OUR READERS' VIEWS

President Fisher Explains.

Editor Florists' Exchange:

In your issue of March 25, I read with interest the copy of Mr. Butler's letter of "Appreciation" as copied from the Gardeners' Chronicle, of London, Eng. But for the fact that some of the statements contained therein have proved misleading to the trade in this country, and my silence should tend to strengthen those erroneous impressions, I had intended taking no notice of the errors, making every allowance for lapse of time, and Mr. Butler's advanced years.

Mr. Butler's memory is at fault when he states I went to Mr. Pease, of Hutton Hall, Yorkshire. It was to Mr. Pease of Woodside Gardens, Darlington, Durham, John McIntyre, gardener. From this place I came to America two years later (in 1884), calling on Mr. Butler and other London friends previous to sailing from Liverpool.

The main point I want to correct is regarding the importation of carnation seed. Mr. Butler is quite correct in writing that he used to send me cyclamen seeds. He did so for three seasons, in quantity, as I then made a specialty of this plant for market. But to date I have not yet imported carnation seed in any form. Since making a specialty of carnations I have grown about half a dozen English sorts to test their blooming qualities, under same treatment as our standard American varieties, but always with the same result, viz., cut the first blooms in February, March or April. I brought over two sorts, Princess May and Butler's Scarlet, cuttings of which Mr. Butler kindly sent me on sailing from Liverpool two years ago. Princess May produced its first bloom March 25, 1905, and Butler's Scarlet, to all appearances, will not expand its first flower earlier than next May. Both have been grown in a high temperature of 50 to 52 degrees all winter. Winter Cheer, sent out by Cannell & Sons, of Swanley, Kent, was the only imported variety that proved at all free under same treatment, but owing to its short stem was discarded years ago. C. W. Ward, of Queens, N. Y., has used this variety in crossing, with good results. So far I have not used any imported variety, either as a seed or pollen parent. Any success I may have attained has simply been through careful culture and selection—in my opinion the only sure basis to work upon.

PETER FISHER.

The Commission Man and His Defects.

Editor Florists' Exchange:

I notice in your issue of April 1 that "The Gatherer" comments on the "comment" caused by the paper I read before the New York Florists' Club. Put forward as a "feeler," says "The Gatherer." Is "The Gatherer's" scribble a feeler too? Is he acting as a catspaw for those behind the gun? If so, it indicates a lack of courage on the part of those who compose the "local circles;" they ought to be able to pull their own chestnuts out of the fire.

That I intended to "incite discussion" is a guess in the right direction. I certainly expected that the matter would be thrashed out on the floor of the club, and hoped that the discussion would result in some benefit to the business grower as well as handler. But there was no discussion; bearding the lion in his den had no result. As regards my "information," I got that on the spot—ocular demonstration—and it is safe to say that many other growers have experienced the same "jar," although they seem to have a strange reluctance, or diffidence, about speaking of it in the right place, notwithstanding the fact that it touches their interests so closely. "The Gatherer's" little bit of second-hand philosophy is not worth notice, seeing he hasn't got the nerve to sign his own name; and by accepting his invitation to "specify," I would put myself in the unsophisticated class along with himself and those who are handling him. Evidently "The Gatherer" has seen something himself; it is up to him to "specify" and tell who those "one or two merchants" are, who give evidence of "defects" and "incapacity."

But my paper was not got up to "condemn" nor injure any merchant or class of merchants. The average merchant of the "class" referred to is a mighty nice fellow, and I will add good looking, too—especially when he is looking over six square feet of boiled shirt front at a club dinner, but, until he can answer in the affirmative the questions put in that paper, it will be safe to assume that there is room for reformation in "local circles."

However, the matter is of vital importance to the carnation grower; in fact, it touches the whole carnation industry. It is of such importance that I think the American Carnation Society ought to take it up, for, what is the use of the raisers and introducers of new varieties sending out those that will not stand rough handling? Those more delicate varieties are without doubt the most beautiful and desirable, but if the commercial grower has to avoid them the raiser will have to confine his efforts to raising rough varieties, that will stand shipping and the handling they get in the average commission store.

In conversation with Robert Kift the evening he visited our club, he told me of the trouble and loss he

had at one time from carnations going bad; he also described his method of getting over the difficulty. If that gentleman could be induced to publish his experience, it would make very interesting reading. Of course, Mr. Kift being a retailer, has an incentive which the commission dealer has not; his flowers enter his store at a stated price, consequently all loss falls upon himself, not the grower.

The commercial flower seems to belong to nobody in particular after it is given into the expressman's hands, until it is sold to the retailer, and at that time it is worth only what it will fetch after being handled, not in most cases what it was worth when it left the greenhouse. The loss falls directly on the grower, and I would just suggest to him that the curbstone is not the place to grow!

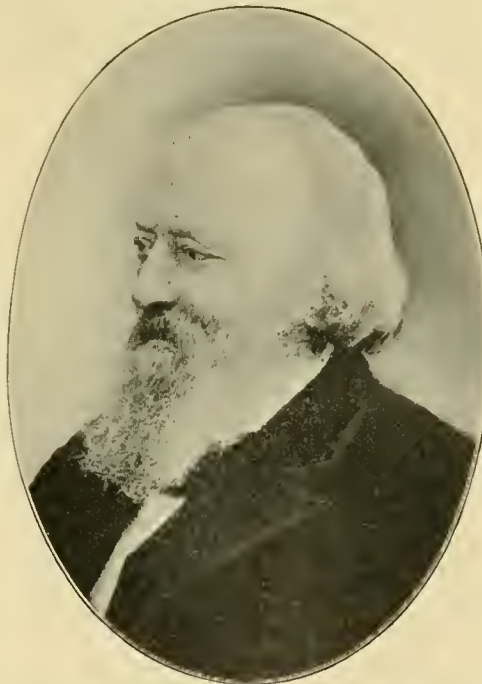
JOHN BIRNIE.



Colonel Nicolas Pike.

Col. Nicolas Pike, soldier, author, and naturalist, descendant of a long line of scientific men, and a relative of Capt. Zebulon R. Pike, for whom Pike's Peak is named, died in St. Vincent's Hospital, New York, April 11, 1905, from paralysis, with which he was stricken Friday morning.

The Pike family were Puritans, landing in New



THE LATE WILLIAM PAUL.

(See page 498.)

England in 1635. Col. Pike was born in Newburyport, Mass., eighty-seven years ago. In early manhood he settled in Brooklyn, where he first identified mastodon bones and teeth exhumed near Jamaica. Through Daniel Webster he obtained the appointment as United States Consul in the Island of Mauritius, in the Indian Ocean, where he made a great collection of birds, fishes, algae, and shells. He presented to Cambridge University more than 800 drawings of the fish of the Indian Ocean, and received letters of thanks from Prof. Agassiz. He had previously been Consul-General in Portugal and there made a study of the grape fungus in the vine growing districts of Portugal and advised the use of sulphur to destroy it. For an essay treating of the zoology of Mauritius he was awarded a gold medal by the governor of that island. His work "Sub-Tropical Rambles in the Land of the Aphanapteryx," dealt with Mauritius. Returning to this country his home in Brooklyn became a mecca for students of natural history.

He was a friend of S. F. B. Morse, was a member of several scientific societies of Europe and this country, and was actively interested in measures to preserve song birds and insectivorous birds from destruction. In the Civil War he rendered service in the organization of new regiments, particularly of the Thirtieth of Brooklyn, and was in charge of a camp of instruction at Williamsburg, and did notable work in adapting photography to the needs of the army.

Among the curiosities he leaves is a three-sheet

autograph letter from Washington to his uncle, Nicolas Pike, commending him as the author of the first arithmetic published in the United States. He also possessed the camp chest presented to Dr. David Livingstone by Sir Moses Montefiore. Col. Pike was perhaps best known as an authority on venomous reptiles. He leaves a wonderful collection of birds and spiders and, like Audubon, shot and mounted his own ornithological specimens.

Last year his extensive and valuable collection of algae was secured by the New York Botanical Garden.

Col. Pike was twice married, but had been a widower for many years. He leaves two sons, Joseph Trevett Pike and Gordon Pike. Funeral services will be held at the Stephen Merritt establishment in Eighth avenue this Saturday afternoon at 2 o'clock, and the interment will be at Newburyport. The Florists' Exchange was proud to number the deceased and his late wife among its closest friends. Both were contributors to its columns in the early days of our paper's existence, and the encouragement then received from Colonel and Mrs. Pike was stimulative and highly appreciated.

Edward H. Howland.

Edward H. Howland, florist, of Oak and Appleton streets, Holyoke, Mass., died at his home, April 11, of pneumonia after a week's illness. He was born in Ceylon 54 years ago and had lived in Holyoke 25 years. Mr. Howland was a Mason and a member of the Second Congregational Church, where he had charge of a Sunday school class. A widow and one son survive.

Charles O. Saunders.

Charles O. Saunders died Thursday, April 6, at his home in Everett, Mass. He was born in Waterford, Me., in 1846, but had lived in Everett since early youth. He conducted the Belmont Hill Nurseries and a real estate business. He was chairman of the board of health in 1892, and had served on the park commission. He was a prominent member of the Belmont M. E. Church. A widow survives.

Gathered and Gleaned.

"I am but a gatherer and a disposer of other men's stuff."

A pertinent, or, perhaps, some may regard it as an impertinent, question, was put to me the other day, viz., "Do writers on the care and cultivation of plants run out?" In a general way they do, and there is every evidence in some of the trade and amateur papers to-day bearing out this assertion. Floriculture in its many and varied phases is a very comprehensive subject, and, unlike fiction, for instance, does not permit of any drawing on the imagination, if regard is to be had for the truth. No man during a lifetime can acquire by experience sufficient knowledge of all of the phases of floriculture to become an expert in every one of them. His writings, therefore, to be of greatest value must be confined to certain circumscribed aspects; in other words, he must specialize. And, in the natural order of things, he must sooner or later cease to produce original material except in so far as new "wrinkles" connected with his specialty develop with which he himself is familiar. Some florist writers there are who know their limitations; and names once familiar in the columns of our trade papers are no longer found there, though the writers still live and move and have their being. Others, again, like the brook, go on forever, grinding out the selfsame stuff in its season, clothed, it may be, in a little different language, but practically the same. Unless to new readers, this latter material has little, if any, worth; and to old readers, who are in the majority, the notes become monotonous and tiresome. They might well be styled "So and So's Reminiscences of Plant Culture;" or, better still, some such reference as "See pages — and — of the issues of last ten or fifteen years," would fit the case. All admire the man who knows when he has given to the world all he does know, and stops; there are various opinions of him who, gifted with the ability of transmogrifying verbiage, continues to sate subscribers with dished-over messes week in, week out. Novelty in writing, and in writers, has a charm. Such we are not likely to find in those whose writing day and generation has passed, which with the average writer on cultural matters may be put down as the end of the second or third season. THE GATHERER.

Job as a Poet (?)

The accredited poet-laureate of the trade—J. Austin Shaw—himself an acknowledged expert on doggerel verse-making, sends us such a criticism as only a recognized authority can, on Job's recent rhyme appearing in these columns. The criticism is a most impartial and fair one, not at all prompted by jealousy, or solicitation for his own and "Phil's" laurels. He states the "acrostic" has settled in his mind that we ourselves and Job are two, and not one, as he had erroneously concluded previously; we "could not have been guilty of such a crime. Terrible rhyming, isn't it?" he says. We admit the premises and are truly thankful for such consideration. The "poet laureate" adds this significant inquiry: "Who in h-l can he be?" showing that even poets (?) are guilty of profanity, and are inquisitive beyond measure.

Easter Novelties and Suggestions

With the near approach of Easter, the retail florist is perfecting his arrangements for the making of a grand and impressive display. With the object in view of giving our readers some suggestions along that line, we had our photographer take a few pictures at the ware-rooms of Reed & Keller, dealers in florists' supplies, showing the newest things for Easter effects, introduced by that firm. At a time like Easter, display means everything to the retailer, and the more varied and novel the show window is made, the better are the chances of success, provided, of course, that fresh flowers and plants are the most prominent features in the display. Baskets and ham-

into the inside of the egg, provides plenty of room in which to hold either a cluster of flowers or a few small plants.

Figure No. 2 shows another egg, but in a different kind of a nest—a miniature wheelbarrow, finished in white and gray, very effective, but perhaps not so artistic as the egg in the nest.

Figure No. 3 illustrates a chariot in the form of an egg, to which is harnessed young ducklings, with a newly hatched chicken perched on the rim of the egg holding the ribbons. The chariot filled with flowers makes a very dainty piece, and is one that will commend itself to almost every retailer.



Fig. 3. EGG CHARIOT DRAWN BY DUCKLINGS

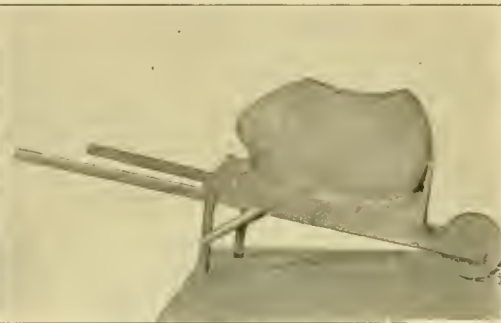


Fig. 2. EGG IN WHEELBARROW

pers will always be in good taste; they have come to be recognized as a standard commodity with the florist, and change so little in their shape and design that they no longer are looked upon as novelties, and are, therefore, of not so much importance for the purpose of making an elaborate display as are some other flower receptacles which we wish to mention here.

We realize that the retail artist is in a class by himself, and usually presents the offer of any advice pertaining to his business. His work is to create new ideas, to offer something original, to be a leader and not a follower; at the same time, the few illustrations here offered, being original and unique in their designs, may carry helpful suggestions to some craftsman who is on the lookout for something new and seasonable for his Easter trade.

Figure No. 1 represents a monster egg resting in a nest of straw and birch twigs. The design is almost 36 inches high and about 30 inches wide. The upper part of the egg is open, and a zinc pan, fitted

Figure No. 4 represents a wine keg, with spigot and all complete, excepting the contents, which in this case will have to be cut flowers or plants, instead of liquid. This device is finished in gray color, and is very ornamental, but it will hardly have as wide a popularity as some of the others for Easter purposes, though for celebrations of a purely festive character, the wine keg will form an appropriate symbol, and, filled with blossoms, would make a very suggestive centre-piece.

Figure No. 5 shows a pretty arrangement that would naturally remind one more of the coming of Spring with its incidental field sports than it would of Easter. Eggs have been associated with Easter festivals for ages, and no doubt always will be. The golf set here shown, however, is something new, and makes a very desirable receptacle for a few long stemmed lilies or American Beauty roses.

Figure No. 6 illustrates a flower holder in the form of an old well house with swinging bucket—a very pretty and quaint design, likely to prove of real interest to all country bred folk. This design is not exactly new, nor is it intended particularly as an



Fig. 5. GOLF SET



Fig. 6. OLD WELL HOUSE WITH SWINGING BUCKET

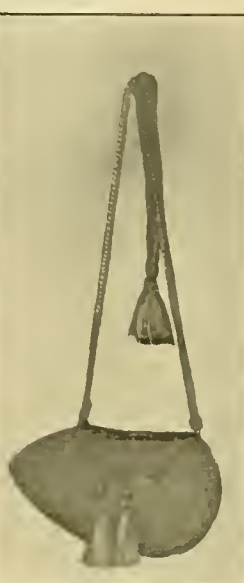


Fig. 8. EGG-SHAPED FLOWER HOLDER



Fig. 1. EGG IN NEST



Fig. 4. WINE KEG

Easter novelty, but, believing that it has never before been illustrated, we include it among the other original pieces here shown.

Figure No. 7 is a pretty plant holder in the form of an old-fashioned windmill made in papier-mache, finished in a dull gray color, and very suitable for a few small plants of bright colors.

Figure No. 8 is an egg-shaped flower holder, finished in pure white, with cords and tassels complete, and suitable for hanging purposes. This is a very rich looking device, and one that should become quite popular.

We present also a few examples of arrangements of flowers in baskets that will be of more or less interest. Figure No. 9 shows a basket of sweet peas; the flowers are in water, and the basket is of ordinary design, made of birch twigs and trimmed with pussy willows. One side of the basket contains white flowers; the other side held blooms of a pink color. A bow of pink gauze ribbon on one side of the handle gives a finishing touch to the piece, and adds little to the cost of this inexpensive design.

Figure No. 10 shows a few violet plants in a round handle basket, with pussy willows intermixed about the sides, and a knot of white ribbon.

Figure No. 11 represents a basket filled with dwarf pink azalea, with loops of pink gauze ribbon on one side. Pussy willows are also used in this basket, as are a few sprays of asparagus. It will be seen that the pussy willow can be employed to great advantage for these inexpensive baskets, and it is at all times appreciated by flower purchasers. For the opportunity of showing the three baskets above mentioned, we are indebted to Alex. Warendorff, Broadway, New York.

Figure No. 12 shows a basket of small plants of the new rose, Mme. Norbert Levayasseur, the Baby Rambler. This is an excellent way to arrange this dwarf rose for decorative purposes. Several plants are grouped in an ordinary shallow basket, the pots being covered over with a surface of green sheet moss. This photograph was taken in the store of David Clarke & Sons, Seventy-fifth street and Broadway, New York.



Fig. 11. AZALEAS

Artist, A. Warendorff, New York

Fig. 10. VIOLETS.

SOME PRETTY EASTER OFFERINGS.

Fig. 9. SWIFT PEAS

A Few Easter Thoughts.

BY KINVARA.

It will be a record breaking Easter. The entire continent is prosperous, and the American people are in the humor to spend their money freely, provided value and honesty are offered and utilized. We are extremely optimistic, and looking back down the long boreen (road) of over twenty years' experiences in New York City, we can in all confidence predict that (atmospheric conditions agreeable) this Easter will be notable, yes, far beyond all others, considering conditions.

Never before in the history of New York was there such good taste displayed (generally speaking) in plant basket work as last Christmas, and your successes then will, if offered, result so at Easter; the only difference being that material is cheaper and the variety unlimited.

There is money in baskets of plants, far more than in specimen plants. They will always be popular, but it depends on the economy of art, or, rather, its naked richness. For instance—extreme cases excepted—there is no necessity to indulge in high-priced baskets, ribbons, laces or meaningless frills. Floriculturally considered, these are not luxuries; they are inappropriate, unnecessary, ill effects. But there is an unbounded scope for individualism in

simple, right-colored baskets, cheap, but unlabeled-colored ribbon and, above all, intelligence in selection of plants and their arrangement. The American people and the florists' pockets are getting tired of putting plants into baby carriages and surrounding them with silly flourishes.

Suppose we go to our supply man and select a few dozen simple handle baskets; the commoner and rougher, the better they are. We choose many sizes, for we want to sell them at anywhere from three to ten dollars each. We get some cheap tins, or even butchers' wax paper, and cover the interiors; then some clean, wet sphagnum and sheet moss. We fill one basket with yellow pansies; another with white and yellow; another with purple and some with all colors—just pansies—good and full, hanging over the sides, and just a bow of ribbon on the handle to give a festive touch. Then we fill a few with one, others with vari-colored *Primula sinensis*; some with polyanthus, others with *Primula vulgaris*, *Primula obconica* in its many varieties, *Primula stellata*; small, well flowered cyclamen, auriculas, the despised little daisy, *Bellis perennis*, *Phlox subulata*, dwarf nasturtiums, or the many beautiful, unappreciated things that can be had from growers. We have not forgotten violets; but a stale violet is something more than an insult; consequently, unless their modesty is enhanced by their fragrance, we prefer to touch them not. Here's a basket of myosotis. What is more acceptable to a memory? Just look at this lone little basket of crocus, with the cluster of snowdrops where the rosette of baby ribbon is tied. That green-colored

lutter basket we will fill with jonquils, tulips, a dwarf lily and fill in and fringe it with pansies, using any color but purple. Here's a green basket for nothing but small ferns, *Pandanus Veitchii* and *Draena terminalis*. The big basket, or hamper, we can fill with foliage and flowering plants.

Out of fifty baskets we need not have two alike, in fact, inasmuch as human nature is selfish in demanding exclusiveness in novelty, or beauty, it is wisest not to present duplicates, no matter how beautiful your made-up work may be—at least, not until you've made the sale and satisfied the customer of having purchased that exclusive one. There can be no wrong done in calling flowers by their old-fashioned names, or stretching a point in order to gratify the whim of some weak, but well meaning customer.

The growers are offering some magnificent plants this year—plants that require nothing but clean pots, good treatment, and fair appraisal. Many specimen palms, foliage plants and ferns will be sold if offered rightly, and though plants may look charming when massed in greenhouse or store, when they are singled out and offered to the critical buyer, defects may be pointed out. It is then that the little, simple, artistic touch may add twenty-five per cent. to the value of the subject.

If you have cause to feel proud of any particular plant, or arrangement of plants, put it where its good points will show to advantage; and it should be the care, as it is the duty, to have plants delivered in as good condition as when they were purchased. A vast amount of valuable time can be saved and much grat-



Fig. 12. BABY RAMBLER ROSE AS AN EASTER PLANT
D. Clarke & Sons, New York



Fig. 7. WINDMILL
Reed & Keller, New York



ERICA CAVENDISHII
Grower, A. Schultheis



Trained Crimson Rambler Rose

Rose Crimson Rambler in Standard Form

Bougainvillea Sanderiana



House of Hydrangea Hortensia, Blue



Single Plant Hydrangea Hortensia, Blue



House of Bougainvilleas

EASTER PLANTS AT ESTABLISHMENT OF ANTON SCHULTHENS, COLLEGE POINT, N. Y.

SOME VALUABLE EASTER PLANTS



Made-up Pan of Plants for Easter



Genista Racemosa in 6 Inch Pot



Andromeda Speciosa, Grown for Easter

Growers A. Leuthy & Co., Roslindale, Mass.

ification afforded by handing customers, or attaching to plants, the simple, printed cultural directions to be had at a low price from The Florists' Exchange office.

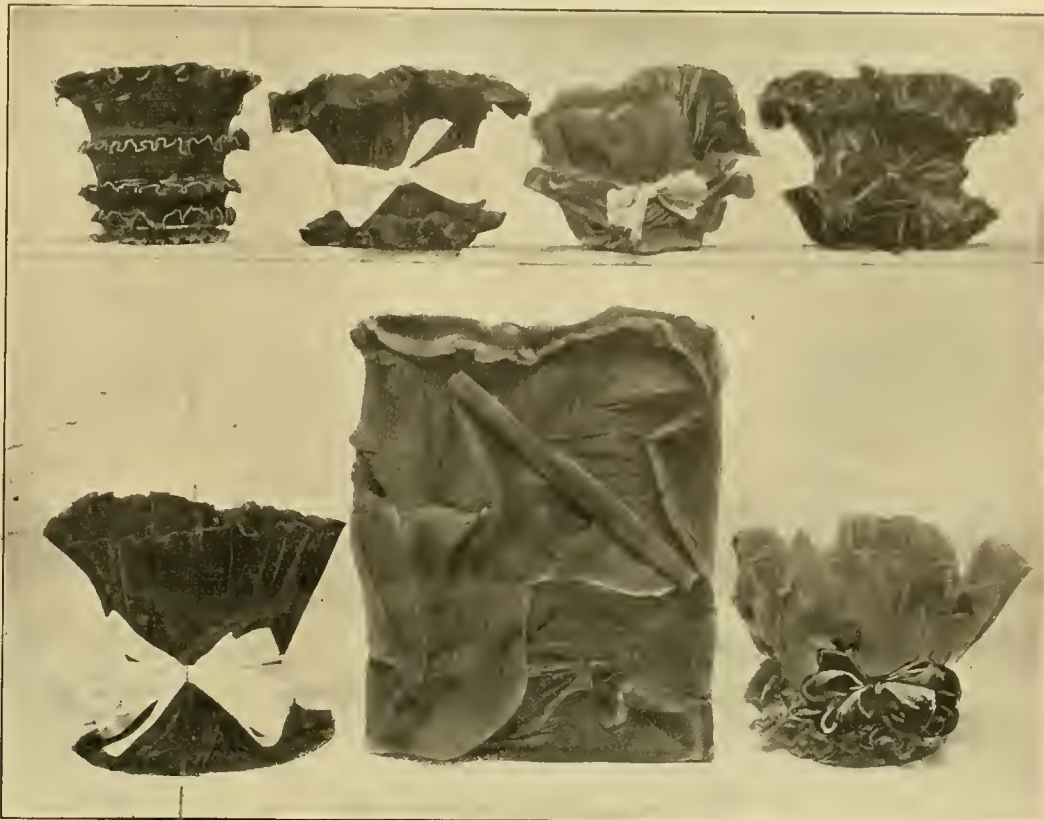
Our country is so vast in extent, climatic and other conditions render it impossible to adopt any general rule except that of fair dealing. It is admirable for the small grower or country town retailer to aspire to the positions attained by the leading florists of the great cities, but their customers are not so exacting. Little knowledge need they of the expensive trimmings, the costly things that are necessary to maintain the individualisms of those who cater to millionaires, and those who would be. Five hundred or a thousand dollars' worth of ribbons, and the same amount for baskets, are in many cases used for Easter trimmings. Poorly grown plants and stale flowers made these enormous expenditures necessary. That skimpy pan of lily of the valley or other bulbs; that dirty flat of roses needs have something done to it ere the city buyers will consider it. Some day, we may have more ornamental pots and pans to grow holiday stock in; then there will be no necessity to put a dollar plant into a two-dollar basket. With the advent of better stock, thousands of dollars' worth of frills now used can be diverted into floriculture proper.

This year there will be an increased demand for cut flowers, and it is the duty of growers to furnish these in the best possible condition. It is a crime to send out ninety per cent. of the violets usually delivered on Easter Sunday. They are bunched by growers without any regard to the flower's peculiar susceptibility. The age of the blooms, the pasty smelling boxes, and the general indifferent manner of make-up and delivery only tend to kill the popularity of one of Flora's gems. What is said of the violet can, in a way, though, nevertheless, important, be said of the rose, the carnation; in fact, of any flower or material. There is not much difference between a sleepy carnation and a faded rose.

This Easter being unusually late, the great danger to guard against is having stock too far advanced. Both immediate and lasting effect is desirable, and the utmost care is necessary in order to create both. You might single out a bunch of those elegant carnations, arrange them in a cheap vase and put them on your counter; the same with the rose, or a combination of flowers. They may exact due homage from some appreciative eye, and open up some tightly clasped purse. A box of flowers, packed for distance, or local delivery, can be placed where it may be inspected to be admired. It is your part to suggest methods and mediums of supplying wants. Pack flowers with a view of their good condition on arrival, rather than their arrangement satisfying your own eye. Any kind of stock is costly; make provisions for its proper care.

Some Good Easter Plants.

ANDROMEDA SPECIOSA is one of our rarer native shrubs which responds well to forcing, and would make an attractive decorative plant. Although a na-



DESIGNS SHOWING REVERSIBLE CREPE PAPER
H. Bayersdorfer & Co., Philadelphia, Pa.

tive of the Southern States, it is perfectly hardy in Massachusetts. Like many of the Ericaceae it is half evergreen. A glaucous form is the most conspicuous, though, perhaps, not so showy in bloom. The flowers in the shape of small bells are borne in racemes on slender pedicels, and are very pretty.

GENISTA RACEMOSA is always a popular Easter plant and if well grown makes a very fine subject for decoration. The illustration represents the plant as grown in 6-inch pots by A. Leuthy & Co., of Roslindale, Mass. David Lumsden, of this firm, who takes charge of the growing department, says that they have much better success with these plants by grow-

ing them indoors all Summer in houses that will have been emptied of bedding plants. The plants are propagated in January, cuttings being taken with a heel. They are potted in February, and grown on, being shifted and sheared as required. Many of them are flowered the first year in five-inch pots, and sell readily as small plants.

A FINE POT COMBINATON of decorative plants is made by using Pandanus utilis as a center, filling up with crotons, marantas, perises and nephrolepis, Asparagus Sprengeri, tradescantia and panicum being used as hanging plants.

CARYOTA MAJESTICA is one of the newer generation of caryotas, and although it may never prove valuable as a commercial plant it will always find favor among lovers of palms. The illustration represents a fair specimen, in a six-inch pot, as grown by A. Leuthy & Co., from plants imported by them from Sander & Sons, of St. Albans, Eng.

J. W. DUNCAN.

Bayersdorfer & Co.'s Novelties.

The illustrations herewith show a few of the many styles of wicker baskets, lined with zinc pans, the top part of open work interwoven with wood fibre ribbon in color, suitable for holding plants, and make most acceptable Easter offerings. The reversible crepe paper, also being placed on the market by this enterprising firm, is finding great favor with the retail trade.

Other illustrations of baskets will appear next week.



WICKER BASKETS AND WOOD FIBER RIBBON
Introduced by H. Bayersdorfer & Co., Philadelphia



CARYOTA MAJESTICA

HAMILTON.—There is every indication of a very early Spring. Easter plants are the all absorbing topic at present. Azaleas are mostly too early. Geranias are also getting pretty well fast. At several growers' places the Easter lilies are pretty well forward, and the prospects are that plants will be none too plentiful. Cut flowers are plentiful at present.

Harry Marshall has a fair showing of plants, despite the fact that every available corner is filled with bedding stock for his park contract.

Alfred Bailey is doing a good trade in funeral work. A large bench of callas is producing a bumper crop, which promises to hold till Easter.

The Webster Floral Company is busily engaged with orders from its mail-order trade. Fred Foster is now with them, doing floral work.

The City Council is purposing supplying beech and maple trees to citizens at cost. Many new streets are being opened up in the industrial section of the city, and this is being done to encourage street planting.

The Canadian Florist, the trade paper published at Toronto, is deceased. We all mourn its demise, for with all its faults we loved it still. It was Ca-

New York.

The Week's News.

The retail business throughout the city is quite lively at present, but it runs more to the filling and placing of window gardens, than it does to the handling of cut flowers, there being little going that calls for the use of flowers at present, owing, no doubt, to the nearness of Easter. Window displays are mostly confined to flowering plants, and judging from the variety and character of the Easter stock of these already on hand, this late Easter will find the trade just as well prepared to meet all possible demands as it has been in other years, when the festival occurred much earlier in the season.

The prolonged session of the Florists' Club meeting on Monday evening, owing to the question box taking up so much time, is a theme of interest among some of the members of the club. Some are in favor of limiting

ers and dealers in bulbs, etc., will move, on May 1, from 17 Battery place, to No. 12 West Broadway.

C. W. Copp, of the Agawan Lodge conservatories, Flushing, N. Y., is offering the ten greenhouses, together with their contents, for sale. The range of glass embraces 24,000 square feet, and is filled with carnations and sweet peas.

The Feder Florists' Supply Co. has been incorporated, with a capital of \$1,000, to manufacture florists' supplies. The incorporators are: F. Richards, 854 Rogers avenue, Brooklyn; S. Richards, 323 Crescent street, Brooklyn; C. Geller, 230 North Twenty-seventh street, New York.

Wm. Engren, Woodhaven, N. Y., is building three new greenhouses, each 100 feet long; the A. Dietsch Company, Chicago, is supplying the material.

A young son of Anton Schultheis, College Point, has been quite ill with gastric malaria, but is now recovering rapidly.

Thomas Murray, for many years gardener on the Duvall county seat, at Islip, L. I., and an expert vineyardist, died April 3, at his temporary home in that village, aged 80 years. His wife, to whom he was married in England a

Philadelphia.

Easter Outlook.

As usual, preceding a holiday event, business the past week has been rather quiet, with a large quantity of flowers on hand. As a general rule, the cut flower men do not quite know how to estimate the trade for next week. The plant growers, in many cases, are having difficulty in keeping back some stock, mostly some varieties of azaleas and pot roses. Azaleas appear to be rather scarce, several of the large growers being already sold out.

Several of the retail stores report that this Lenten season has been the best for many years, they having done much more business than is usually looked for at that time.

The Week's News.

H. Bayersdorfer & Co. had a large shipment of Easter goods on the steamship Alvanna, which was in collision in Halifax, N. S., harbor two weeks ago and had a hole stove in her. The



CRIMSON RAMBLER BRIDGE, NEW YORK.



BOWLING ALLEY — GREENHOUSE.

From the April issue of Möller's Deutsche Gärtner Zeitung.

nadian, and, of course, that covered a multitude of shortcomings. It is puzzling when one considers the fact that Canadians cannot maintain a trade paper. It is probably puzzling to you, Mr. Editor, to understand why we look any further than the interesting columns of The Florists' Exchange. I guess we are averse to being dependent; but it looks as if we shall have to reconcile ourselves to the very excellent American papers. We shall not be badly off if we do, though.

BEAVER.

Orange, N. J.

Michael Cox gardener for twelve years for Thomas A. Edison, Esq., Llewellyn Park, fell downstairs while carrying coal at his residence on Stanton street, breaking his spine. He lingered for two days and died last Saturday. He was an expert rose grower.

J. B. D.

OMAHA, NEB.—J. H. Hadkinson, who had charge of landscape gardening for the St. Louis Exposition, has been employed by the board of managers for the State Fair, at Lincoln, to superintend the work at the Fair grounds during the five months between now and Fair time. Mr. Hadkinson will superintend the construction of the new buildings, the setting out of trees, and the improving of the appearance of the race track by leveling the infield and seeding it.

the number of questions to one only for each meeting night, so that full justice can be done the subject, and still give the members plenty of time to get home before midnight.

If New York is to be represented at the bowling tournament of the S. A. F. O. H. in Washington, next August, it is now a good time to begin and get a team together. Suitable alleys should be found, where practicing can be done the next three months.

Sander & Sons will hold their usual auction sale of orchids, in Cleary's Horticultural Hall, on Tuesday, April 25. There will then be exposed to sale a number of new orchids offered for the first time; also quite a large consignment of plants suitable for cutting or for the trade.

James Weir's Sons, at their greenhouse in Bay Ridge, Brooklyn, have their usual quantity of lilies for Easter, and the majority of them will be in on time. There has been a large percentage to throw out on account of disease, etc., and, like all other collections of lilies, whether bought for multiflorum or giganteum, they are sadly mixed up, the collection evidently containing six or seven different types of *L. longiflorum*. Hydrangeas are in particularly fine shape here; two houses of geraniums, that are just coming into flower, are a grand lot, and will be a welcome addition to the flowering plants for Easter. Azaleas also are grown in large quantities and are timed nicely for the occasion.

Ralph M. Ward & Company, import-

half century previous, died a month ago. The couple were childless.

Jacob Wiese, a Buffalo, N. Y., florist, has been spending a few days in the city.

The plant exhibits at the club meeting last Monday evening were of a very superior order, including a fine plant of the new geranium Telegraph, from Thos. Devoy & Son, Poughkeepsie, N. Y.; Bougainvillea Sanderiana and Epiphyllum truncatum coccineum, from Pankok & Schumacher, White-stone, L. I.; several large plants of Crimson Rambler roses, from the Hinode Florist Co., White-stone, L. I. The largest exhibitor of the evening was Louis Dupuy, White-stone, L. I., who staged a very meritorious collection of Easter plants, among which were Erica ventricosa Bramplia, E. persoluta nana, E. marmosa alba, E. hybrida, E. amirabilis and E. Franklin-scens. Hydrangeas blue and pink, also H. Thomas Hogg and its red-stemmed sport, H. John Hogg. Several plants of clematis in bloom, a large standard plant of the double pink lilac, Michael Buchner, several plants of the Baby Rambler rose, Mme. Norbert Levavasseur and a dwarf yellow rose, provisionally named Pearson yellow. The two chief novelties in Mr. Dupuy's collection were *Crassula hybrida coccinea* and *Acacia plumosa cordata*, both of which created favorable impressions as being most desirable subjects for Easter work. Two specimen marguerites, bearing numerous blossoms, completed one of the most interesting exhibits ever seen in the club's parlors.

steamer was repaired temporarily, and reached this city Wednesday evening. The work of unloading went on all night, and the goods will be shipped this week.

Lord & Burnham Co., through D. T. Connor, their representative here, have sold to Lawrence Thompson, of Kennett Square, Pa., material for four houses, each 20x100 feet.

Sidney H. Bayersdorfer, the 17-year-old son of H. Bayersdorfer, is now in the store waiting on customers, and also goes out soliciting orders from the trade locally.

John Walker, of Walker & McLean, Youngstown, O., spent a few days here the end of last week, looking up Easter stock.

DAVID RUST.

Syracuse, N. Y.

Work on the parks has begun a month earlier than usual—the earliest in five years. The appropriation for this work is \$3,000 less this year, so there can be no improvements.

The pupils of Townsend School have just received 200 packages of flower seeds from Congressman M. E. Driscoll.

P. R. Quinlan has returned from Cuba.

J. B. D.

Valuable for Reading and Advertising.

Having read your publication from its inception and having secured much valuable information, both from reading and advertising matters, I desire to renew my subscription.

D. C. ALBERT F. ESCH.

SAMUEL S. PENNOCK EASTER LILIES

Extra Choice Stock—Plants or Cut

THE Wholesale Florist, PHILADELPHIA

Mention the Florists' Exchange when writing.

Carnations

F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

GARDENIAS

Strong plants, 7 and 8 inch pots, with from 15 to 30 well developed buds, \$2.00, \$3.00, and \$4.00 each.

A Splendid Easter or Spring Pot Plant

YOUNG ROSES

Own root AMERICAN BEAUTY First crop now ready from 2 1/2 inch pots. \$6.00 per 100; \$50.00 per 1000. GRAFTED BRIDES and BRIDESMAIDS on Irish stocks. \$12.00 per 100.

ROBERT SCOTT & SON
Sharon Hill, Del. Co., Pa.

Mention the Florists' Exchange when writing.

ENCHANTRESS

The most popular and best paying of all CARNATIONS. Large stock of rooted cuttings now ready.

3.00 per 100; \$25.00 per 1000.

White Lawson, 100 \$6.00 1000 \$50.00

The Queen, 2.50 20.00

Cardinal, from 2 in. pots, ready now, 12.00

The Queen, 2 in. pots 3.00 25.00

CHRYSANTHEMUMS

DR. ENGUEHARD, Rooted Cuttings, \$1.00 per 100.

LARCHMONT NURSERIES
LARCHMONT, N. Y.

Mention the Florists' Exchange when writing.

SMITH'S CHRYSANTHEMUM MANUAL
A Book That Every Grower Should Possess

PRICE 25 CENTS

A. T. DE LA MARE PTG. AND PUB. CO. Ltd.
2-8 Duane Street, NEW YORK

Mention the Florists' Exchange when writing.

Carnations SELECTED ROOTED CUTTINGS

CLEAN, HEALTHY STOCK FROM SAND AND SOIL

	per 100	1000
Enchantress.....	\$ 3.50	\$ 30.00
Queen.....	2.50	20.00
Lawson.....	2.00	15.00
Wolcott.....	2.00	15.00
Queen Louise.....	2.00	15.00
Genevieve Lord.....	1.25	10.00
Floriana.....	1.50	12.50
Fiancee.....	12.00	100.00

Careful packing. Stock guaranteed satisfactory in every way.
ROBERT C. PYE, NYACK N. Y.

The Beautiful Pink Carnation CANDACE

Dissemination 1906, \$2.00 per doz., \$12.00 per 100. \$100.00 per 1000. Early—commercial.

Indianapolis Flower and Plant Co. and John Hartje, Indianapolis Ind.

Mention the Florists' Exchange when writing.

CARNATIONS

Chrysanthemums and Violets
Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Kennett Square, Pa.
Mention the Florists' Exchange when writing.

Strong Rooted Carnation Cuttings

	Per 1000	Per 1000
Enchantress.....	\$25.00	Adonis.....\$20.00
Lord.....	9.00	Flamingo.....
Lawson.....	12.00	Peru.....
Boston Market.....	20.00	7.00

Princess of Wales Violets
Rooted Runners, \$5.00 per 1000.
Cash or C. O. D.

SOL GARLAND, Des Plaines, Ill.
Mention the Florists' Exchange when writing.

CARNATIONS GOOD STRONG CUTTINGS

	100	1000
Hill.....	\$1.00	\$10.00
Lawson.....	1.75	15.00
White Lawson.....	6.00	
Flamingo.....	6.00	
Prosperity.....	2.00	15.00
Manley.....	2.00	15.00
Roosevelt.....	1.50	15.00
Apollo.....	1.50	

CHAS. T. DARLING, Stony Brook, N. Y.
Mention the Florists' Exchange when writing.

CARNATIONS

SPECIAL PRICES

QUEEN LOUISE.....	per 1000,	\$7.50
FLORIANA.....	"	7.50
MRS. E. A. NELSON.....	"	10.00
HARRY FENN.....	"	10.00

50,000 Queen Louise ready now, the others the latter part of April and early in May.

ALBERT M. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

H. WEBER & SONS

announce the completion of arrangements whereby they will, beginning in January, 1906, disseminate jointly with

THE E. G. HILL CO.
THEIR TWO GRAND NEW CARNATIONS

MY MARYLAND AND JESSICA

MY MARYLAND is already well and favorably known, having been exhibited freely at the various flower shows and florist club meetings the past Fall and Winter, and in every case elicited the highest praise and most favorable comment. We pick this variety to quickly and easily displace all other whites for first honors, not alone in exhibition, but in commercial points as well. We claim for it a robustness of constitution quite unequalled in any other variety and an ease of culture that will delight the heart of the grower. The great vigor of both parents (Norway x Lawson) seems united and improved upon in this variety.

In JESSICA we have in the red and white variegated class, what My Maryland will prove among whites. It is descended through several generations of variegated seedlings of Helen Keller and Bradt extraction on the one side and Lawson on the other. A strong, thrifty growing variegated seedling bearing the seed. It is a trifle heavier in growth than My Maryland and just Lawson height. Aside from these differences and the color, the description of My Maryland applies to Jessica. Under favorable conditions four inch blooms are not uncommon. We pick Jessica to win over any other variegated variety.

Both of the above are free propagators. We are thoroughly familiar with them and know what they will do. We will be in a position to deliver stock early and on time, and assure the trade that no disappointments will result on that score.

We have already booked many orders. It pays to be early. Orders booked are subject to cancellation by the buyer if unsatisfied with either variety, up to the time the cuttings are received.

Price: \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

West of Pennsylvania address, THE E. G. HILL CO., Richmond, Ind.
East of Ohio address, H. WEBER & SONS, Oakland, Md.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLIS.....	\$12.00	\$100.00	LAWSON.....	\$2.00	\$15.00
CHICAGO WHITE.....	12.00	100.00	NELSON.....	1.50	12.50
RICHMOND GEM.....	10.00	75.00	MORNING GLORY.....	1.50	12.50
THE BELLE.....	5.00	45.00	JOOST.....	1.00	9.00
CRUSADER.....	5.00	45.00	HIGHNBOTHAM.....	1.00	9.00
INDIANAPOLIS.....	5.00	45.00	FLORA HILL.....	1.00	9.00
BOSTON MARKET.....	2.50	20.00	QUEEN LOUISE.....	1.00	9.00
ADONIS.....	2.50	20.00	PERU.....	1.00	9.00
ESTELLE.....	2.50	20.00	G. ANGEL.....	1.00	9.00

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA,
UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
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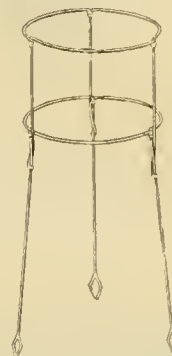
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Some Nonsensical and Improper English Names.

Editor Florists' Exchange:

A paper like The Florists' Exchange ought to do something toward securing correct and proper English or common names for plants. Probably over one-third of the plants of economic or ornamental importance are known by pseudonyms rather than by their proper names. It simply illustrates the fact that our English language is a barbaric jumble at the best, a hash composed of the mixture of all languages of earth, the same as our people.

Nevertheless, it is safe to assume that all plants of economic or ornamental importance should have some reliable name, and a leading paper like The Florists' Exchange should assume the lead in this direction.

Anyone consulting our leading catalogues would think that geraniums were among our leading florists' bedding flowers—our prevailing house plants. This is entirely untrue. There are very few geraniums in cultivation, and as far as I have ever discovered, all cultivated ones are hardy outdoor annuals or perennials, not one that I ever learned of ever being grown as an indoor ornamental or Summer bedding plant.

In looking over the catalogues we occasionally see some one advertising "pelargoniums" or "Lady Washington" or "pansy geraniums." All this simply complicates nonsense, for one would be led to think that only these few species are pelargoniums, an entirely false assumption, it being a fact that all plants called geraniums, coming originally from South Africa, are not geraniums at all, but all are pelargoniums. It is just as correct to call a strawberry a rose as to call a pelargonium a geranium. To continue calling a plant false names is simply perpetuating a lie. Of course, a pelargonium, our most common house plant and florists' flower, belongs to the geranium family; so does the strawberry to the rose family, the onion to the lily family. Shall we call strawberries roses and onions lilies?

The spelling of peony as "peony" is an unwarranted barbarism, as the word cannot be correctly pronounced the latter way of spelling. It is folly to drop an ancient and honorable name and pronunciation for a silly, unwarranted fad. Some object to preserving a diphthong in the English language. Well, if a substitute should be made, it should at least be of approximate value. I challenge any one to demon-

strate that the English long sound of "e" approximates that of "æ" in peony. It cannot be used correctly as a substitute.

Now for a bit of history of one of our most valuable hardy perennials, and then I shall give the correct pronunciation of the word. It has been assumed that the name peonia was from that of the ancient and fabled god Pæon, who, it is claimed, used the peony as medicine. It is all very true that Pæonia officinalis has long been used as a medicine. Careful research establishes the fact that, like the peach (Latin, persica—Persia), this plant derived its name from the country where it first became known to the world at large—Pæonia—a country once east of Macedonia, now a portion of Turkey in Europe. This country was known to the Romans as Pæonia, and to the Greeks as Paiones (I use Roman for Greek letters here). Now, "ai," alpha iota, is the Greek diphthong approximating the Roman "æ." Now we should consider some important facts: None of our vowels are pronounced the same in other languages as our own—in all other languages "a" is sounded as in all, "e" as in bay, "i" as e in me, and in modern English only do we find the sounds we commonly use not common in ancient English even.

Now in "æ" we have a combination of "a" as in ball and "e" as in may. In "ai" Greek "a" as in ball and "e" as in me, not just the same as the Roman sound, but its nearest Greek approximation. Now try this Roman sound and you will find it something like our common modern English long "i," but broader. Therefore, if we listen to the printers' and faddists' klicking, let us use our nearest common modern English approximate, "i" as in pine, mine, etc. Thus, not "peony," but "piony," it being evident that our English word must spring from the Roman and Greek names Pæonia and Paiones. Therefore, our grandmothers used vastly more correct language when they said "Piny," than do our modern faddists who squeal out "Peony," and dub an American association by that silly, barbaric name, so totally unwarranted by actual facts. By the way, the history of the country Pæonia is very interesting. It was a most ancient country. How it obtained its peculiar name I don't know, but it certainly gave its name to our beautiful modern flower.

Hereafter, let us be at least as approximately correct in our pronunciation of "peony" as were our grandmothers, who simply omitted one syllable, an abundant proof that our more educated English forefathers pronounced the word correctly, and pronounced it as "piony," "i," as in time, being our nearest modern approximate to the Roman "æ" in Pæonia. By the way, I should have said the Greek Paiones preceded the Roman Pæonia, the people of Pæonia being more nearly related to the Greeks than the Romans, and more ancient than the latter.

It is not correct to say "tulip poplar," there being no such tree. Neither is it correct to call *Liriodendron tulipifera*, "Whitewood," the latter properly belonging to a poplar. The tulip tree (*Liriodendron tulipifera*) is not a poplar, and no more related to one than a hazel bush is to a pansy, but of the magnolia family. Alfalfa is not a clover, but a medick, the latter coming from ancient Media—originally pronounced "May-dea."

It is not correct to say "Soy bean." The Soy is no more a bean than the strawberry is a rose. The Japanese name "Soja" is pronounced "Soya," not as we sound "j," but as our English forefathers and modern Danes, Norwegians and Swedes sound it still. In old English, "j," "i" and "y" were used for the same sounds indiscriminately. Other nations still follow the old practice, the French sounding "j" something like "zh," and Spanish like "h" in Scotch "loch," a very difficult sound for an American.

The so-called cowpea is neither a pea nor a bean, no correct English name for this Chinese plant. I suggest a name of approximate value to Latin, vign, pronounced "veen," for those of genus *Vigna* and *Dolich* (doleek) for those of genus *Dolichos*.

There is no such plant as the Irish potato. The potato is not Irish, but a pure American. The so-called sweet potato is not a potato, but relative of the morning glory; proper name would be *Batata*.

The plant so commonly called "yam" down South is not a yam, but a large variety of sweet potato or *batata*—no more like a yam than a morning glory is like an Indian corn plant. The cinnamon vine is the Chinese yam. The word corn is properly generic, not specific, or by common English practice applied to all grains of the grass family having value as food. wheat, rye, oats, barley, etc., are indiscriminately called "corn" in England. The true name of our grain is maize, not corn, long cultivated by our native Americans, mis-called "Indians." I might say that although Columbus mis-called the aborigines of our land Indians, this country was named after an aboriginal tribe, the Ameriques (Amerikes), still living not far from the Panama region—not after Amerigo Vespucci, that Spanish adventurer—as our geographers commonly teach us—commonly, but falsely. Some disgruntled individual may kick at this and call me radical, but must an honest man be compelled to perpetuate lies to satisfy popular ignorance?

Perhaps no floral name is more barbarically misapplied than that of the lily. The 45 or 50 species of the genus *Lilium* are properly lilies, but no others. Plants entirely unrelated are dubbed "lily." Plants of the genus *Castalia* (misnamed *nymphaea*—this name properly belonging to our common yellow Northern pond "lily," so called) are dubbed water lilies, and they are no more like true lilies than the sunflower

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Spring Show at Buffalo, N. Y.

The Spring flower show, given by the Sweeney Co.'s department store, under the auspices of the Buffalo Florists' Club, conducted by Chas. H. Keitsch, opened on fairly prompt time Tuesday, April 11. While a lack of some expected entries was noticeable, the space was well occupied, and quality was conspicuous, as a rule worthy of commendation. The exhibition was free, intended to progress advertising conditions.

On Wednesday, April 12, the subjoined awards were made by Judge Roderick Cameron, Niagara Falls, Ont.

Lilies, twelve in 7-inch pots—first, Scott Floral Company; six in 7-inch pots—first, Wasson Floral Company, Orchard Park, N. Y.; second, Scott Floral Company; third, same firm. Single, in 10-inch pot—first, Scott Floral Company.

Azaleas, six plants no less than three varieties—first, Chas. Sandiford, gardener to Mr. J. J. Albright, Buffalo; second, same; third, Scott Floral Company. Three plants, any variety—first, Chas. Sandiford; second, Scott Floral Company. Best single plant, any variety—first, Chas. Sandiford, second, same; third, Scott Floral Company.

Rhododendrons, three plants—first, Chas. Sandiford; Sandiford; second, same; third, Scott Floral Company.

Roses, six hybrid perpetual plants in no less than three varieties—first and second, Chas. Sandiford. Three plants of Rambler type—first and second, Chas. Sandiford.

Tulips, flat, 24x12, single red—first, Louis H. Neubeck; second and third, Scott Floral Company. Flat, 24x12 inch, single yellow—first and second, Scott Floral Company; third, L. H. Neubeck. Flat, 24x12 inch, single white—first and second, Scott Floral Company. Flat, 24x12, single, any other color—first, L. H. Neubeck; second and third, Scott Floral Company. Flat, 24x12, double, any color—first and second, Scott Floral Company. Pan, 12 inches in diameter, single red—first, Scott Floral Company; second, Chas. Sandiford; third, Scott Floral Company. Pan, 12 inches in diameter, single yellow—first and second, Chas. Sandiford. Pan, 12 inches in diameter, single white—first, Chas. Sandiford. Pan, 12 inches in diameter, single, any other color—first, second and third, Chas. Sandiford. Pan, 12 inches in diameter, double, any color—first and second, Chas. Sandiford; third, Scott Floral Company.

Hyacinths (Dutch), pan, 12 inches diameter, white—first, Chas. Sandiford; second and third, Scott Floral Company. Pan, 12 inches diameter, blue—first and second, Chas. Sandiford; third, Scott Floral Company. Pan, 12 inches diameter, pink or red—first, Chas. Sandiford; second and third, Scott Floral Company. Twelve single pots, white—third, Scott Floral Company. Twelve single pots, blue—first, L. H. Neubeck; second, Scott Floral Company. Twelve single pots, pink or red—second, Scott Floral Company.

Narcissus, flat, 24x12 inches, Von Slon—first, L. H. Neubeck; second and third, Scott Floral Company. Pan, 12 inches in diameter, Von Slon—first, Chas. Sandiford.

Lily of the Valley, three 8-inch pots—first, L. H. Neubeck; third, Scott Floral Company. Spirea, six plants—first, Scott Floral Company; second, Chas. Sandiford; third, L. H. Neubeck. Orchids, best collection in bloom—first, Chas. Sandiford. Begonias, collection no less than 12 plants—first, Theodore Venneman, gardener to Geo.

Urban, Jr., Buffalo; single plant, any variety; second, Theodore Venneman.

Stove and greenhouse plants, twelve plants in no less than six varieties—first, Scott Floral Company; second, Theodore Venneman. Best collection of forced bardy shrubs—first and second, Chas. Sandiford. VIDL.

THE GARDENER'S ASSISTANT.—It is

with great pleasure I note you advertise this book. It was first gotten up by the late Robert Thompson, superintendent of the Royal Horticultural Society's Gardens at Chiswick, London. Mr. Thompson was then one of the best and most experienced all-around gardeners in Europe, if not the very best, and his field of observation, practice and experiment was greater than that of any other man then living. It was the first book on gardening I ever owned. About 38 years ago I subscribed for it in monthly parts, 2s. 6d. a part. My wages was only 6s. a week. It was complete in 12 parts and then I had it bound, and that old and well-thumbed and blackened volume has a place of honor in my library to-day. It was my text-book for many a year. But the same Gardener's Assistant to-day is a new book, increased immensely in size, modernized in every particular, and that, too, by the Curator of the Royal Botanical Gardens at Kew, London, a man who has the best opportunities of any man on earth for knowing what is newest among plants and most modern in gardening.

The foregoing commendation, which appeared in THE FLORISTS' EXCHANGE, issue of January 7, 1905, was written by Mr. William Falconer, one of the very foremost practical horticultural experts in America. Mr. Falconer is a graduate of Kew Gardens; was Curator of Harvard Botanical Garden; Head Gardener for C. A. Dana, Esq.; then became Superintendent of Schenley Park, Pittsburg, and is now Superintendent of Allegheny Cemetery; he was also the first editor of "Gardening."

Send for Prospectus and Price.

THE FLORISTS' EXCHANGE, P. O. Box 1697, N. Y.

is like a palm tree. The African calla is dubbed "calla lily;" it is not a lily at all, but an aroid, just as much a lily as the skunk's cabbage is. Trillium grandiflorum is dubbed "white lily" or "wood lily." Is not trillium sensible enough for a common name?

Various irids, nerines, amaryllis, crinums and other plants of the great Iris and Amaryllis families are idiotically dubbed lilies. Even the common spiderwort, not even a lily, is dubbed "spider lily." Fritularias are also dubbed "lilies."

It is properly strawberry (wandering berry), not strawberry; harsh radish, not horse radish, and the horse chestnut is not a chestnut at all, but a so-called huckeye, another fanciful name, no more a chestnut than an apple tree is.

But the culmination of barbarism is reached in styling a tuber-bearing sunflower "Jerusalem artichoke." In the first place, the plant is not an artichoke—this name is properly applied only to the artichoke (Cynara scolymus), the large, undeveloped flower-heads which furnish a dainty dish when cooked—and it does not even belong to the same tribe of the great family Compositae, as does the artichoke. Furthermore, it is a genuine American, a pure native, and never saw Jerusalem, unless carried there—very doubtful. The name Jerusalem, so miserably misapplied, seems to be derived from the Italian girasol, sunflower, barbarically mutilated by unpardonable ignorance. Locust is applied to the carob, common locust, honey locust, to various grasshoppers and bugs. Some writers make a horrid mess in trying to reconcile the name locust to all these things.

And then the name cactus—a family name, comprising many legitimate genera and species—certainly enough to properly bear the name cactus—must be misapplied to every succulent of no matter what genus, tribe, order or series. In ignorant parlance, the aloes, gasterias, tillandsias, agaves, and even cactylodons, echeverias and sempervivums, are all "cacti," and none of them bear any but the remotest relationship to cacti. Some phylloceati bloom at night and they are dubbed "night blooming cereus."

The Syrian hibiscus is barbarically dubbed "Althea, Rose of Sharon." The althea is a hollyhock, and this shrub is a hibiscus, and it does not even belong to the order Rosales, let alone being a rose.

Balsam is applied to a multitude of plants. The so-called balsam of our flower gardens is dubbed "lady slipper," as are also calceolarias, cypripediums and selenipediums. And such gushing sentimental twaddle as "Black-eyed Susan" is applied to thunbergias, rudbeckias and what not!

Let us have decent, reliable, common English names and banish all false names and silly nonsense from our English nomenclature.

(PROF.) WILFRED A. BROTHERTON,
Rochester, Mich. Botanist.

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Torridor Combustion Regulator.

Editor Florists' Exchange:

The late test of the Torridor Combustion Regulator at the New York store of Messrs. Hitchings & Co. resulted in some very interesting disclosures. The device was first applied to a No. 17 corrugated boiler, but it was found that with that style of boiler steam was generated so fast that the experiment was unmanageable, and had to be abandoned. Experiments of a different character with this same style of boiler will be carried out later. But this trial demonstrated the fact that this style of boiler, old as it is, has great efficiency as a conservator of large volumes of heat of moderate temperature. Further experiments with a simple direct draft steam boiler showed that it, as well as many of the newer styles of boilers, depends for efficiency on a very intense degree of heat being generated in the combustion chamber. It was shown that, other things being equal, the more intense the heat, the greater is the relative proportion of heat absorbed. The writer has never claimed for the Torridor that it is of value in those cases where high intensity of heat is a necessity as is the case in very cold weather in undersized boilers. Heat is only thus secured by a very hot passage of gases in the chimney which is uneconomical in practice. It was shown that if a very shallow bed of fuel was carefully stoked and continually kept free from ashes, enough air for combustion can be taken through the grate to effect as complete a combustion as can be secured through the down draft through the Torridor; but this is a condition which does not exist in the case of household and greenhouse heaters where a large and thick bed of fuel is fed and then left to itself over night. In such instances, we get conditions which, with direct and free draft through the grate, produce a strong and relatively complete combustion early in the night, which, as the ashes accumulate, the air for combustion is more or less shut off, the fuel is baked and the gases driven off incompletely combined with air, and hence are unburned; there is a lesser production of heat through the latter part of the night. But if most of the air for combustion is supplied from above the fuel mass, as is the case of the Torridor supply, the combustion is more equably effected all through the night and more completely effected. Every one who has given the Torridor a careful trial agrees as to this equalizing effect in burning fuel when this device is used, and the economy which is effected must be largely due to this action, although damper and check draft effects must be given some credit for the result secured. It seems to be practically impossible to prostrate just what the economy in using this device

will be in any particular case. The only way to find out is to try it. There are cases in which it cannot be attached to a heater, but whenever it can be applied, more or less benefit can be secured by its intelligent use.

J. M. W. KITCHEN, M. D.



JOHN FARRELL

Retired After Fifty Years' Active Service as a
Gardener

Fifty Years a Gardener.

Of the many men brought into public prominence by the Madison Square Garden shows in New York, John Farrell will be remembered particularly for his grafting work on the chrysanthemum. Last month marked the thirtieth anniversary of his service at Baronald, the seat of Mr. William Barr in Llewellyn Park, Orange, N. J., and his retirement from active work after his long and faithful labors there at the age of seventy years. He had previously been in the employ of Josiah H. DeWitt, George Thorpe and Richard Purdue. Between seventy and eighty first premium cards adorn the ante-room of the range of glass houses at Baronald, and the certificates and testimonials he has received would fill a large chest. It was from here that the chrysanthemums Baronald, Miss Alice Broom, Mrs. William Barr, John Farrell (named and introduced by T. H. Spaulding), Jim Dandy, Jessie King and Cumo had their origin. Mr. Spaulding offered John Farrell \$25 for a bronze, but this and many other meritorious and unique sorts Mr. Barr still prefers to keep as his private property.

Mr. Barr's collection has been an inspiration to many, and he has welcomed flower lovers with a generous hospitality. T. H. Spaulding, when the owner of the nearby estate of "Castlewood," was a frequent caller upon John Farrell, and it is believed that he received his first knowledge of chrysanthemums from Mr. Farrell. The late Peter Henderson was also a frequent visitor and was in the habit of saying "John Farrell claims that he does not know anything, but he gets there all the same." John Thorpe, Samuel Henshaw, Wm. R. Smith and Andrew Carnegie have likewise been visitors, and the late M. Doane loved to linger among the varied plants which have always been a feature of this place.

When rheumatism made it difficult for Mr. Farrell to go out at night, the New Jersey Floricultural Society recently honored him by making him an honorary member.

J. E. D.

A recent report of the Connecticut Experiment Station contained an account of the garden flea hopper (*Halticus uhleri* Girard) injuring smilax under glass. This is a small black bug which has caused much injury to various plants in various parts of the country. The plants attacked are beans, beets, red clover, cow pea, potato, chrysanthemum, morning glory, egg plant, cabbage and pumpkin. Tobacco fumes were employed in the smilax house, but did not kill the flea hoppers; hydrocyanic acid gas was next tried, with greater success. Spraying with kerosene emulsion has been recommended as a remedy, and, says the report, doubtless common soap and water would serve the purpose if strong enough, and applied as a spray.

CARNATIONS

EASTER

Coming so late this year, there is a general opinion that plants will be too far advanced by that date. The wise Florist will send his cut flower order early to meet such an emergency.

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ROSES

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CLUB AND SOCIETY DOINGS

Society of American Florists and Ornamental Horticulturists.

Meeting of Board of Directors.

The annual meeting of the executive board was held at the New Willard Hotel, Washington, D. C., on Tuesday, Wednesday and Thursday, April 4, 5 and 6, 1905. In the absence of President J. C. Vaughan, Vice-President J. R. Freeman occupied the chair. There were present also Ex-President Philip Breiteneyer, Treasurer H. B. Beatty, Secretary Wm. J. Stewart, Directors H. M. Altick, Theodore Wirth, W. H. Elliott and E. V. Hallock, Ex-Presidents Wm. R. Smith and W. F. Gude, Professor Galloway of the U. S. Department of Agriculture, and Secretary Moseley, of the Interstate Commerce Committee.

The report of the secretary indicated a continuous prosperous condition in all departments, and the treasurer's report showed the largest cash balance on hand in the society's history. Various committee reports were presented and approved. Professor Galloway addressed the board on behalf of the Department of Agriculture, offering the co-operation of the department in the arrangement for the entertainment and instruction of the society at the convention next August.

The program for the convention, so far as completed, provides for the customary opening exercises on the afternoon of Tuesday, August 15, and president's reception in the evening. Nomination and election of officers and other routine work of the society will share the morning sessions of Wednesday and Thursday, with several papers on subjects of interest, and the evenings of these two days will be devoted to stereopticon lectures under the auspices of the Department of Agriculture. Among the papers presented will be one by Oglesby Paul, of Philadelphia, on "Landscape Gardening," or a kindred subject; one on "Helps to Floriculture in the South and Southwest" (not yet assigned), and on "American Bulb Growing," by Professor A. J. Pieters. In addition, a competition is to be arranged for, and prizes will be offered by Treasurer Beatty for the best essays on the subject of "The Ideal Employer."

The consensus of opinion in the board favored a policy of broader publicity in the society's work, closer affiliation with the daily newspapers, and for fuller press reports than heretofore, and the dissemination of general horticultural information in every community of the country, particularly through the medium of the public schools. A bronze medal was appropriated to be placed at the disposal of Miss S. B. Sipe for award to the school children of the city

of Washington for the encouragement of horticulture. Favorable action was taken toward the appointment of a committee to report on the feasibility of preparing a concise and practical text book for use by Boards of Education to be disseminated through the various florists' clubs.

The National Rifles Armory on G street, N. W., between Ninth and Tenth streets, was selected for the exhibition, the upper and lower halls to be used for this purpose, and the proffer of Carroll Hall, adjoining, was accepted for the use of the society for its meetings. Should the exhibition overflow the accommodations in the Armory, an additional hall is available in Masonic Building.

A fine special exhibit will be made by the Department of Agriculture, and a silver medal will be offered for the best display of cut flowers in vases. It was voted that the exhibition be allowed to remain open during the sessions of the society as an experiment. George H. Cooke, recommended by the Washington Florists' Club, was duly appointed superintendent of the exhibition.

Wednesday afternoon was set apart for the bowling tournament, and Messrs. Phil Hauswirth and John Westcott were appointed to act with the local sporting committee. The bowling alleys selected are located on Eighth and E streets.

The following final resolutions were unanimously adopted:

We, the members of the executive committee of the Society of American Florists and Ornamental Horticulturists, in meeting assembled, regret the circumstances that have made necessary the absence of our president, J. C. Vaughan, and that we could not avail ourselves of his experience and wisdom in the deliberation of this committee. We wish to state, however, that his place was most ably and satisfactorily filled by our vice-president, J. R. Freeman, and we hereby wish to express to him our appreciation of his many kindnesses while in and out of the chair.

We wish to extend our heartfelt thanks to each and every member of the Washington Florists' Club, and especially to the accomplished President, W. F. Gude, for their untiring kindness and courtesies, and particularly for the delightful entertainment with its most beautiful decorations.

And further to the management of the New Willard Hotel for the courtesies, and to the daily press for their full and accurate reports of our meetings.

Finally, the committee is greatly impressed with the great work the Hon. James Wilson, Secretary of Agriculture, is doing along all the lines of horticulture, and the willingness of this department to cooperate with this society in every possible manner, and for the individual interest shown by Professor B. T. Galloway during our stay.

WM. J. STEWART, Secretary.

MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—At a meeting on April 7, at Oceanic, N. J., it was decided to hold a rose, sweet pea and strawberry show on June 16. At that meeting, N. Butterbach will read a paper on "Hybrid Tea and Tea Roses for Bedding Purposes." Mr. Hale exhibited some excellent amaryllis, Enchantress of India, and two other hybrids, which scored 90 points. Mr. Brington, gardener to Mr. Hess, showed some finely colored Prosperity carnations, scoring 90 points; his Enchantress received 80 points. The prizes for the assays on "Rose Culture under Glass" were presented to the prize winners. I. A. Kettel surprised the winner of the first prize, Charles Wengert, with a beautiful silver cup, and N. Butterbach presented the winner of the second prize, J. G. P. Kennedy, with a silver shaving cup and brush. The recipients expressed their gratitude for the beautiful prizes and treated the members to two boxes of cigars. The judges of the evening were: W. W. Kennedy, J. A. Kennedy and Wm. Turner. B.

NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY.—The regular monthly meeting of this society was held at the Glen Cove greenhouses on the afternoon of April 5. The attendance was not particularly large, owing probably to the rainy weather, and the rush attending Spring work. Exhibits were plentiful, nearly every member contributing something. A vase of that grand red carnation, Robert Craig, furnished by the Cottage Gardens, Queens, L. I., graced the exhibition table. Special mention was made of a new seedling white carnation, raised by Felix Mense, Glen Cove greenhouses. Mr. Mense has named it Dosoris, and, judging from his stock, it shows itself to be a profuse bloomer and of robust constitution. The flowers are full, well built, and, apparently, non-bursting. Another new seedling carnation, dark pink, was exhibited by Mr. Myers, superintendent to G. R. Sheldon, Esq. The flower was large, full, with highly fringed petals. A beautiful specimen plant of a white Cineraria stellata showed an enormous wealth of blossoms. A dish of peas was also shown, the variety being Gradus. They had been grown under glass. The seed was sown around December 20, and pods were ready for pulling during the first week in March. A standard gardenia, profusely flower-budded, and showing the marks of high culture, was exhibited by T. Harrison, superintendent to E. R. Ladew, Esq. It was decided, until further notice, to hold the meetings in the evening. JOHN F. JOHNSTON.

EASTER

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THE KENTUCKY SOCIETY OF FLORISTS held its monthly meeting at the store of Mrs. C. W. Reimers, Louisville, with an excellent attendance present. The society decided to hold a display of sweet peas and other seasonable flowers at the June meeting, and to invite the public to attend, free. November 14 to 18 is the date set for our chrysanthemum show. A. R. B.

THE NEW JERSEY FLORICULTURAL SOCIETY.—William Reid, gardener to the estate of Sidney and Austin Colgate, Orange, N. J., read a paper upon "Herbaceous Perennials for the Open Border" at the regular monthly meeting of this society, held on April 7. The chief points dwelt upon were: Continuous bloom, backgrounds, planting for harmony and effect and massing, season of planting, soils and protection in winter. The essayist included a judicious list of plants. Mr. Reid made some particularly happy suggestions as to supplying gaps with annuals kept in reserve. The impression made by the excellent judgment displayed caused the request for a copy of the paper for publication, in addition to the usual vote of thanks.

The usual display of high-grade roses, carnations and orchids from the estates of Mr. John Crosby Brown (Peter Duff), Messrs. Sidney and Austin Colgate (William Reid, gardener), Mr. A. C. Von Gaasbeck (William Bennett, gardener), Mr. Henry Graves (Edwin Thomas, gardener), Mr. William Barr (Arthur Bodwell, gardener), and Mr. Chas. Hathaway (M. Hornacker, gardener). Of special interest were the new rose Wellesley, exhibited by John N. May; a new seedling carnation from Hornacker (certificated); Empress of India amaryllis, from Peter Duff, and Lady of Barnald amaryllis, brought from Florida by Mr. Barr in 1888, and flowered by Arthur Bodwell. Two new members—Thomas Jones, of Short Hills, and James Lang, of Orange—were elected. M. J. McKernan, secretary of the Elks Society, was made an honorary member in recognition of services to the society. A letter from Mary A. Latterbury, of the Orange Educational Society, asking for the donation of seeds and plants, was referred to individual members. J. B. D.

NEW YORK FLORISTS' CLUB.—A well-attended meeting, a beautiful exhibit, and a session which lasted until nearly midnight, were the features which characterized the gathering of the club on Monday evening, April 10. President Traendly occupied the

chair. The secretary's minutes included the reading of the new rules and regulations governing awards, made at the meetings, which are as under:

Rules Governing the Exhibition of Novelties and Disseminated Varieties.

Novelties.

The following rules governing the exhibition of novelties, etc., have been submitted by the Committee of Award of the New York Florists' Club, and adopted by that body, March 13, 1905:

Rule 1. The committee requires that the initial exhibit of new varieties of flowers or plants be made at a regular meeting of this club, and the exhibitor shall notify the secretary at least ten days prior to the meeting at which he proposes to exhibit.

Rule 2. Anyone showing a novelty with the intention of obtaining the club's indorsement in any way, the committee may recommend, shall conform to the rules laid down by them for their guidance, as herein stated.

Rule 3. Any exhibit of a novelty in cut flowers at a regular meeting, if considered of sufficient merit by the committee, they, or at least three of them, shall be empowered to visit the place where it is growing, and if, after careful examination of the same, they deem it of sufficient merit, they shall award accordingly; but if, in their judgment, it appears advisable to defer the award till a second visit shall be made, they shall be at liberty to so decide.

Rule 4. The highest award for flowers or plants shall be the silver medal of the club, the next the certificate of the club, the next "highly commended," the next "honorable mention."

Carnations.

Rule 5. In judging carnation flowers at the exhibition in the club's meeting room, the scale of points adopted by the American Carnation Society shall be adopted, as follows: Color, 25; size, 20; calyx, 5; stem, 20; substance, 10; form, 15; fragrance, 5. Should the variety judged score 85 points or more, a preliminary certificate shall be granted to it. In judging the variety where it is growing, the following scale shall be used: Condition, 15; productiveness, 15; color, 15; size, 15; calyx, 5; stem, 15; substance, 5; form, 10; fragrance, 5. Should the variety score 85 points or more, the final award shall then be made. If it fail to score 85 points or more, the preliminary certificate shall be withdrawn and public notice given of said withdrawal.

Roses.

Rule 6. In judging rose flowers at the exhibition in the club's meeting room, the scale of points adopted by the American Rose Society shall be used, as follows: Size, 10; color, 20; stem, 15; form, 15; substance, 10; foliage, 15; fragrance, 5; distinctiveness, 10. In judging the variety where it is growing, the following scale shall be used: Condition, 15; productiveness, 15; size, 10; color, 15; stem, 10; form, 10; substance, 10; fragrance, 5; distinctiveness, 10. The stipulations for award on carnations shall apply also to roses.

Chrysanthemums.

Rule 7. In judging chrysanthemums at the exhibition in the club's meeting room, the scale of points adopted by the Chrysanthemum Society of America shall be used as follows: Commercial Scale. Color, 20; form, 15; fullness, 10; stem, 15; foliage, 15; substance, 15; size, 10.

Exhibition Scale: Color, 10; stem, 10; foliage, 10; fullness, 15; form, 15; depth, 15; size, 25. The final award shall be made on chrysanthemums at the initial exhibition in the club's meeting room.

Plants in Pots or for the Open.

Rule 8. When a new plant, such as will be grown in pots or in the open ground generally is brought to this club's meeting, if the committee is sufficiently satisfied as to its distinctive merits and other qualities, they shall be empowered to give final award without further examination.

Rule 9. In judging plants or flowers other than the foregoing, the committee may use a scale of points adopted by a special society covering the exhibit, if any exists; or they may judge them by any other method at their discretion.

Rule 10. All reports of the committee shall be entered in a book kept for said reports; all reports shall be signed by the members making same.

Rule 11. The committee recommends that the expenses necessarily attending the traveling, etc., to examine novelties where they are grown shall be paid by the exhibitor. We further recommend that after the initial exhibit has been made in the club's rooms and the committee requires further investigation, that the party exhibiting such novelty shall be notified by the secretary that if he wishes the committee to go to the place for further examination he must forward the amount in cash to the secretary of this club necessary to cover mileage, etc. The chairman of this committee shall first ascertain what such expenses would be and advise the secretary of the amount, and in no case where the money is not sent in advance shall the committee be authorized to make the visit.

Disseminated Varieties.

Rule 1. Competitive exhibits of flowers or plants already disseminated shall be judged by the scales governing same as provided in the rules for novelties, excepting roses. In case of the latter, the following scale shall be used: Size, 15; color, 20; stem, 20; form, 15; substance, 15; foliage, 15.

Rule 2. The awards under the rules for disseminated varieties shall be: First, "award of excellence for culture;" second, "award of merit for culture."

Rule 3. All exhibits at club meetings not embraced in the foregoing shall be judged by a special committee appointed by the presiding officer with the approval of the club.

Rule 4. Should less than three members of the committee of award appear at a meeting when exhibits are to be judged, the presiding officer shall, with the approval of the club, appoint others to act temporarily; the power thus granted to expire at the close of the meeting.

Special.

When the committee visits the place where plants or flowers are grown, for the purpose of making final inspection.

EASTER, 1905

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ion, at least three of the committee must be present before final award is made. That all notices to visit places where plants or flowers are to be judged shall be sent out by the chairman of the committee of awards.

COMMITTEE OF AWARDS.

PATRICK O'MARA, Chairman.

Committee present, Messrs. Duckham, Miller, Lenker, O'Mara, Totty.

The foregoing rules were read section by section and adopted separately, then adopted as a whole.

CHAS. H. TOTTY, Secretary.

February 13, 1905. Professor W. G. Johnson was elected to membership, and Gerard Dryer proposed.

In making his report for the committee of awards Mr. O'Mara referred to the magnificence of the exhibition, which, he said, showed a spirit of rivalry and progress, and must benefit those bringing their displays to the meeting; it must result, also, in developing the aesthetic sense of the members, inducing a spirit of emulation among those who are growing stock. The committee gave the Hinode Florist Co., Whitestone, L. I., for Crimson Rambler roses, an award of excellence for culture. Louis Dupuy, Whitestone, L. I., a similar award for ericas, for dwarf Crimson Rambler, double lilac, blue hydrangea, marguerites, clematis, and Acacia plumosa cordata, an award of merit for culture; for Crassula hybrida coccinea, a certificate of merit. The committee was favorably impressed with the possibilities of the last-named plant. Pankok & Schumaker, Whitestone, L. I., received an award of merit for culture for their Epiphyllum truncatum, Bougainvillea Sanderiana. A similar award was made to Thos. Devoy & Son, Poughkeepsie, N. Y., for geranium Telegraph. Votes of thanks were tendered the exhibitors. In speaking of his exhibit Mr. Devoy said that the geranium shown exhibited its worth as a greenhouse plant, and it would be hard to excel it as such, in his opinion. Mr. Dupuy, referring to his specialties, said that the plants he had shown were not very plentiful in this country, neither were they very profitable; the latter was one reason why he grows the stock. (Laughter.) Heaths required in Summer a great deal of moisture which the New York climate in July and August does not practically afford. The blue hortensia he had imported two years ago from Europe; it had been sold quite extensively, but had given a good deal of disappointment because of the fact that it did not bloom well. It was a hortensia, not a hydrangea, there being quite a distinction between the two kinds of plants. The reason of its not blooming well, he thought, was because it had been propagated too fast, besides being grown indoors. Planted outside in the Spring, and given ordinary cultivation, any one could succeed with it. It could be easily forced, in six weeks, and as soon as the flowers open they show the blue

color. Asked as to the possibilities of the crassula Mr. Dupuy replied that it was a plant very common in the markets of London and Paris. The flower was of excellent substance, and the plant itself would prove very valuable for early Summer, being in full beauty about June. It could be easily propagated; from the specimen which he had obtained from a French grower about two years ago, he now had 6,000 plants; it throws out a large number of shoots. The type from which this crassula was secured was a later bloomer, not flowering before the middle of July. Mr. O'Mara asked the speaker whether the plants of the blue hydrangea, had been specially treated to get the color. Mr. Dupuy responded that the plants had been grown in specially imported soil; he had tried, in the case of ordinary Hortensia japonica, the use of alum and sulphate of iron and produced a blue color, but there was no stability to it. The water he uses is hard. Mr. O'Mara stated that some years ago Peter Henderson & Co. acquired a stock of the hydrangea called acuminata, which was afterward found to be the same as the red branched hydrangea, but his firm had had it for several years before the red branched one appeared under that name. H. acuminata he considered the best pink hydrangea. He cited a case where this plant had been set out-of-doors and grown for a number of years in ordinary soil in a Jersey garden the blooms coming a magnificent blue; with cuttings taken from that plant the flowers had all come pink. A case similar to this was mentioned by Mr. Dupuy in relation to Hortensia japonica; all over Long Island the blooms on this plant, of a blue color, could be seen in gardens, but in the case of cuttings from them the blooms were of a pink color. Mr. Butterfield asked the speaker as to whether Hydrangea azurea, so called, was a distinct variety. Mr. Dupuy replied that it was a commercial name given to the plant on account of the flowers always coming blue, with him, it being actually the Hortensia rosea, a plant which gave flowers of different colors, ranging from pink to blue; it was not a separate variety.

President Traendly called attention to the fact that he had recently seen children, ranging from 12 to 16 years of age, turned away from the greenhouses in Prospect Park, Brooklyn, N. Y., and suggested that the club take up the matter. This resulted in quite a discussion as to the beneficial effects of admitting children to flower shows and to public greenhouses, and a committee of three, composed of Messrs. Butterfield, Langjahr and Reimels, was appointed to approach the authorities of Brooklyn, protesting against the debarring order and to have it, if possible, rescinded, it being also suggested that an hour could be set apart when children could visit the greenhouses, and extra watchmen afforded to prevent any vandalism or destruction on the part of the little ones.

The questions from the question box were then taken up. The first, "Why are carnation growers more progressive than rose growers?" was answered by C. W. Ward, of Queens, as follows:

Why Are Carnation Growers More Progressive than Rose Growers?

I believe that, as a class, the carnation growers are more liberal, more energetic and determined to push their flower to the front than are the rose growers. Again, the rose grower has had the advantage of having a certain amount of self conceit owing to the fact that the popularity of the rose has been of long standing, while the carnation grower knew that in order to get a standing he had to get out and hustle and make things ring. Again, the rose grower is working under an average temperature ten degrees higher than is the carnation grower. Now you know that inhabitants of tropical climates are much less energetic than those of temperate climates. The temperature of the carnation house approximates a temperate climate, while the temperature of the rose house approximates the tropical climate; consequently I consider the rose grower a tropical inhabitant and the carnation grower a temperate one.

Again, the carnation grower has the advantage of having a better following than has the rose grower when you consider it from one point of view, and that is, that it is more plastic under the hybridizer's management, and it is much easier to produce new varieties of carnations than it is to produce new varieties of roses.

Again, the facility with which the general public has accepted the improvement in the carnation, and the promptness with which it has awarded the efforts of the carnation hybridizer has acted as a strong stimulus to the carnation men throughout the country and infused into them a degree of energy and progressive spirit that has carried them on enthusiastically in their work, and produced the splendid results in increasing business which has benefited the entire florist trade—grower, commission men and retail dealer alike. Further than this the deponent saith not.

This matter was creative of a very lengthy discussion, participated in by Messrs. O'Mara, Butterfield, Wheeler, Lenker, Scott, Wallace, Harry May, Endgren, and others, in which the rose grower and the carnationist each found his champions. It was pointed out that the carnation men had the advantage of the rosarian in the ease with which new varieties could be secured, creating greater interest in the divine flower by commercial florists, at least. On the other hand, it was stated that the rose man did not advertise his goods, through public exhibitions, as largely as he might do. It was also shown that the men who had attempted the cross-fertilization of the rose, such as E. G. Hill, John Cook, M. H. Walsh, Jackson Dawson and W. A. Manda, had secured results which showed great improvement over varieties imported from Europe. Mr. Wheeler did not believe the carnation men were really more progressive than the rose men; the former had a flower that responded more readily to progress than the rose. The discussion was an interesting one, and instructive in

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so far as it showed that the rose men were inclined to rest on prior laurels and did not seize the advantage afforded of displaying their goods to the same extent as did their brethren who cultivate the divine flower; advertising being considered a mark of progress, whereas non-advertising demonstrated a lack of the progressive spirit.

James T. Scott replied to the question "Is floriculture more advanced in this country than in Europe?" He spoke as follows:

Is Floriculture More Advanced in this Country than in Europe?

The question is a somewhat knotty one. No matter how well disposed one may feel toward the land of his adoption there is that something voiced in the words of Sir Walter Scott:

"Breathes there a man with soul so dead,
Who never to himself has said
This is my own, my native land."

An opinion thus given is liable, therefore, to be biased in a degree, no matter how honestly we may endeavor to face the question.

If we should confine ourselves solely to commercial floriculture, the answer would be a negative one. There is, no country in the universe where flowers are grown (especially in the winter months) for the millions to such perfection as they are here but the range of variety is in a great measure restricted. If we eliminate the rose, carnation, and violet, there would be little left, indeed; and looked at from the broadest standpoint, these three items could scarcely be said to cover the field of floriculture. Financially, this country is able to support these luxuries better than they are supported in Europe. The working classes over there find it a hard enough struggle to make money enough to keep body and soul together, without any of these added luxuries. Even if they had the money, it would be impossible to supply these grades of flowers at the same cost. The winters over there are cold and dull, with scarcely any sunshine, and during the summer it is necessary to keep firing constantly. Under these conditions it is impossible to produce the same grade of flowers at the same cost as we do here. The wealthy classes over there mostly rely on their own greenhouses for all their flower supplies, and the commercial florist, as we know him, is scarcely known on "the other side" at all. Covent Garden is largely a plant market, although during the early spring months lots of bulbous stock finds its way there from the Scilly and Channel Islands and from the south of France. The modest flower girl is found on the London streets in spring and summer, but there is not enough money in the operation to entice the Greek; and the millionaire commission man can only be fattened in such a broad and wealthy country as America.

To every European, the cultivation of roses, carnations and violets as done in this country is quite a revelation, but here it ends, and floriculture in its broader sense

seems to be largely sacrificed for this. Moreover, the tendency is to run to specialties, most times to carnations or roses alone, or vice versa, and the floricultural training of the young man in the business is therefore but superficial. No doubt he may be able to make just as good a living as if his knowledge were broader, but, from a floricultural standpoint, his training has never been finished. There are, of course, many exceptions to this as there are in anything, but those who have surmounted the barrier have done so from energy and strength of character in spite of the system, rather than because of it.

There are a few private places in this country where floriculture is just as far advanced as it is in Europe, instances: at Gould's, Rockefeller's, Untermeyer's, Border's, Ogden Mills', Dinsmore's, D. Willis James', J. Crosby Brown's, F. L. and Oakes Ames estates, Percival Roberts', Wanamaker's, several estates in Lenox and Newport; but the majority of private places here are run too much on a semi-commercial basis, for what can be got out of them; and everything is figured down to dollars and cents—merely a place where the floral essentials necessary for society events are produced more conveniently and cheaper perhaps than they can be produced in the open market; or because a whim of fancy or society's dictates demand that all up-to-date people must have these things to be in the height of fashion; just as the up-to-date spirits demand that the wealthy must own fast horses, or an expensive automobile. They largely own these things from a spirit of caprice to excel and outdo others less fortunate in the possession of the world's goods. A big bunch of flowers appeals to any nature however primitive, but how few of even those who own greenhouses will take up one small flower in their hand and admire it for the sake of the flower itself? In the language of the poet:

A primrose by the river's brim
A yellow primrose is to him,
And nothing more.

How few appreciate the spirit of the poet Burns as he was about to turn under with the plough-share a modest daisy, the first harbinger of Spring:
Wee, modest, crimson-tipped flower,
Thou'st met me in an evil hour,
For I maun crush among the stoure,
Thy tender stem,

To spare thee now is past my power.
Thou bonnie gem.

If we were to leave out the men who are directly interested in floriculture here for a livelihood, and the wealthy whose case has already been dealt with, what would be left? The poorer, everyday, working people have no love for rural beauty, and the flowers that clothe the roadways have not for them even a passing interest. How different from the old world homes where every cottage has its garden; where the roses and the honeysuckle mingle with the morning glories against the whitewashed walls of the humble dwellings; where the pathway that leads to the door has a border of flowers on every side! The edging may be of boxwood or oftener of the common saxifraga (or London Pride), or double daisies, or, sometimes, armerias (sea pink), *Cerastium tomentosum* (snow in summer). In the border behind, the snowdrop appears before the snow has left the ground, followed in quick succession by crocus, daffodils,

aubretias, grape hyacinths, primroses, iris, polyanthus, wallflowers, adonis, campanulas, veronicas, starworts, woodruff, pyrethrum, lupines, delphiniums, monkshood, ranunculus, anemones, phloxes, peonies, pansies, violets, trilliums, potentillas, and other things far too numerous to enumerate. In these small garden spots they contrive to have things in bloom from early spring until late in the fall, when the Christmas roses have to be protected from the keen biting winds with spruce branches. Flowers to these humble old world cottagers are a source of everyday delight. Few plants are bought or sold; their incomes deny this. But a spirit of good fellowship, largely enhanced by mutual tastes, enables them to barter backward and forward, and newer things thus find their way gradually into every garden. The children are reared in this atmosphere; they learn the names of the various flowers as they come and go; as other children become familiar with the names of the various household articles. As a boy, I could name every flower that grew in my father's garden, as well as every tree which grew in the district, and I was no exception. When the day's work is over men turn to their gardens for recreation; often also, from necessity, for all grow their own vegetables, which otherwise they would have to go without, their income often being insufficient to spend on needed staples. In every cottage window is to be found a wealth of bloom; it may be of geraniums, pelargoniums, or fuchsias only, but always enough to make the home look cheerful and bright. Every little country village has its annual flower show and the keenness of competition surpasses, in its own small way, a Madison Square Garden exhibition. The beauty of it is, that all are competent judges, and the minutest details are keenly scrutinized.

The love of flowers, and the love of the beautiful in nature, appeals not to those whose thoughts are sordid, whose one desire is to make money or to shine before the glaring footlights of a superficial society.

This is a comparatively new country, and men have been busy up till now developing it. Liberty loving subjects of all nations have flocked to these United States where aristocratic rule is unknown, and where one man is as good as another. Again the spirit of Burns prevails: "A man's a man for a' that;" but our work is just beginning. Ours is a missionary calling. There is here a fresh field for labor. There is here the material to work upon. There is here the wherewithal to work with; and if the work remain unfinished, it will be largely our fault.

Is floriculture in this country as far advanced as it is in Europe? No; not yet.

Questions to be answered next meeting are: "Are the street merchants and peddlers beneficial or detrimental to the florist business from the standpoint of the grower, the retailer and the commission man?" "What are the essential qualifications of a judge of cut flowers and plants?" "What are the most desirable features in a rubber plant?" and "Who is Job?" At the next meeting also there will be a display of bedding plants, and, probably, a talk on the subject by growers. An amendment to the by-laws, relative to the duties of the secretary and treasurer, also to increase the former's salary, will be discussed at that time.

Boston.

Effects of Past Winter.

Not in years have so many hardy plants suffered from the Winter effects as the present. While the two previous Winters have been considered the most severe on record, yet there has been something about the one just past that has caused death and destruction among many plants hitherto considered hardy enough for any New England Winter. Especially destructive has the Winter been on nearly all kinds of evergreens, rhododendrons and kalmias suffering perhaps as much as anything. Common hemlocks even, of large size, have suffered a great deal, and the common red cedar, of which many were killed a year ago, has again suffered quite badly. All of the finer evergreens have suffered more or less, and while it is yet too early to say what the death rate will be among deciduous shrubs, there is no question but that it will be heavy.

News Notes.

William Anderson, well known as the superintendent of the Bayard Thayer estate, at South Lancaster, underwent an operation for appendicitis on Sunday of last week. We are glad to hear a favorable report of Mr. Anderson's recovery, although he is still confined to the Clinton Hospital.

Joseph L. Galvin, the popular manager of Galvin's Back Bay store, is very ill at his home suffering from ptomaine poisoning. Mr. Galvin had been recovering, but we regret to hear that he had a relapse, and is now very ill.

Mayflower, the native species, has made its appearance this week for the first time this season.

E. Sutermeister, of Hyde Park, is bringing in some very fine Spanish iris.

W. H. Elliott is sending in some of the finest Liberty roses ever seen in Boston.

Welch Bros. are handling some fine Adiantum Croweanum, being the sole Boston agency for handling the same. They are also handling exceptionally fine American Beauty from cold-grown houses. This firm has been shipping large quantities of Easter lilies in cases direct from the growers.

A number of the prominent men in the trade visited the greenhouses of W. W. Edgar on Wednesday, to examine his fine stock of plants grown for the Easter trade.

Chas. E. and J. Robinson, of the firm of H. M. Robinson & Co., are visiting New York this week. The former will also go to Washington before his return.

John Walsh, manager of the Park street flower market, is confined to his home with sciatica.

Macmulkin is handling large quantities of yellow Marguerites and expects to have a cut of ten thousand blooms for Easter.

Kidder Bros., of Lincoln, are bringing in very fine single violets for so late in the season.

Doyle is handling some very well-grown plants of pelargoniums, which are quite attractive.

H. M. Robinson & Co. have on hand a fine stock of wild smilax and bunch laurel for Easter decoration purposes.

Mann Bros. are bringing in some well-grown Pink Rambler plants to the Park street market.

E. J. Harmon, of Portland Me., was in town this week, looking up plants for the Easter trade.

J. W. DUNCAN.

Pittsburg.

News Notes.

The Pittsburg Florists' Exchange, of which P. J. Demas is the proprietor, expects to be in their new quarters, at 228 Diamond street, in time for Easter business. They will occupy the entire building, which is four stories high.

Flower Shows.

Flower shows have been all the rage in Pittsburg and Allegheny the past week or more. The conservatories in the two cities have excellent exhibitions, and the private conservatories, particularly those of H. C. Frick and A. R. Peacock, which were open to the public, were very fine. David Fraser, gardener to Mr. Frick, has a fine display of orchids, besides other seasonable blooms. Although the hail-storm did a little damage to all these places, they will be open to the public until after Easter.

Alexander J. Guttman,

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Very truly yours,

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A Damaging Hail Storm.

Hailstones, the like of which have not been seen in and around the city since the memorable storm in 1893, caused several deaths, thousands of dollars' worth of damage, frightened many people, and stopped outdoor operations of every sort for about ten minutes on April 10 shortly after noon. Conservatories and picture galleries suffered most from the ice balls, which measured 5½ inches in circumference. The damage to greenhouses will be very heavy. The fine conservatories in Schenley Park and those in the Allegheny Park suffered a great deal, both by broken glass and destruction of plants. The private conservatories of H. C. Frick and A. Peacock, the finest in the city, were damaged considerably. The private places of R. H. Boggs and J. Craig, in the Sewickly valley, were also badly damaged. John Patton's and the Pennsylvania Railroad's greenhouses, at the same place, were damaged considerably. Among the commercial growers the heaviest losers were John Bader, at whose place about 1,000 lights of glass were broken, but the plants were not much damaged. Randolph & McClements on Forbes street, near the park, and also at their Highland avenue place, suffered quite a loss. A. W. Smith, on Mt. Washington, was likewise a heavy loser.

E. C. REINEMAN.



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Prices quoted are by the hundred unless otherwise noted.

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	" No. 1	5.00 to 8.00	3.00 to 4.00																									
	" No. 2	3.00 to 4.00	1.00 to 2.00																									
	" No. 3	1.00 to 2.00	3.00 to 5.00																									
	Bride, 'Maid, fancy—spe'l	3.00 to 5.00	2.00 to 3.00																									
	" extra	2.00 to 3.00	1.00 to 2.00																									
	" No. 1	1.00 to 2.00	.75 to 1.00																									
	" No. 2	.75 to 1.00	1.00 to 6.00																									
	Golden Gate	1.00 to 6.00	1.00 to 1.50																									
	Liberty	3.00 to 15.00	4.00 to 6.00																									
	Meteor	1.00 to 5.00	1.00 to 1.50																									
	Mme. Abel Chatenay	1.00 to 6.00	1.00 to 1.50																									
	ADIANTHUM	.50 to .75	25.00 to 50.00																									
	CROWNEANUM	.50 to .75	10.00 to 25.00																									
	ASPARAGUS	.50 to .75	4.00 to 6.00																									
	" Sprenger, bunches	10.00 to 25.00	40.00 to 75.00																									
	CALLAS	4.00 to 6.00	.50 to 1.50																									
	CATTLEYS	40.00 to 6.00	.10 to .25																									
	DAISES	.50 to 1.50	.50 to .60																									
	FREESIAs, per bunch	.10 to .25	4.00 to 8.00																									
	LILAC, per bunch	.50 to .60																										
	LILIES	4.00 to 8.00																										

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Advertisement for Wm. J. Baker, Wholesale Florist, 1432 S. Penn Square, Philadelphia, PA.

Advertisement for Dumont & Co., Wholesale Florists, Carnations a Specialty, No. 1305 Filbert St., Philadelphia.

Advertisement for Wm. J. Moore, Wholesale Florist, 1235-37 Filbert Street, Philadelphia, PA.

Advertisement for Edward Reid, Wholesale Florist, 1526 Ranstead Street, Philadelphia.

Advertisement for A Daily Cut from 40 Growers, Headquarters for Hardy Ferns and Wild Smilax, E. F. Winterson Co., Chicago.

Advertisement for J. B. Deamud, Wholesale Cut Flowers, 51 and 53 Wabash Avenue, Chicago.

Advertisement for Sinner Bros., Wholesale Growers and Shippers of Cut Flowers, 58-60 Wabash Ave., Chicago.

Advertisement for Geo. Reinberg, Wholesale Grower of Choice American Beauty Roses, 51 Wabash Avenue, Chicago.

Advertisement for Vaughan & Sperry, Wholesale Florists, 58-60 Wabash Ave., Chicago.

Advertisement for Charles W. McKellar, Wholesale Commission Florist, 51 Wabash Avenue, Chicago.

Wholesale Prices of Cut Flowers—Per 100

Large table listing wholesale prices for various flower varieties (Roses, Carnations, etc.) across different cities (Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburgh, St. Louis).

Advertisement for Cut Flower Boxes, Weatherproof, Corner Lock Style, The Livingston Seed Co., Box 104, Columbus, O.

Advertisement for Welch Bros., Proprietors, City Hall Cut Flower Market, 15 Province St., Boston, Mass.

Advertisement for H. G. Berning, Wholesale Florist, 1402 Pine Street, St. Louis, Mo.

Advertisement for Holton & Hunkel Co., Wholesale Florists, 457 Milwaukee Street, Milwaukee, Wis.

Advertisement for Eugene Bernheimer, Wholesale Florist, 11 South 16th Street, Philadelphia.

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Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

W. J. COWEE, Berlin, N.Y.

Sample free. For sale by dealers. Mention the Florists' Exchange when writing.

SHEEP MANURE

Pulverized. Free from all Adulteration In Bags, \$18.00 per Ton

Special price on car load lots in bulk

ROBERT SIMPSON, Clifton, N. J.

Mention the Florists' Exchange when writing.

SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.
GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.
LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.
Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. **Green Sheet Moss**—Per bbl. sack, \$2.50.
All Kinds of Florists' Supplies.
 L. J. Kreshover, 112 West 27th Street, New York
 Tel. 697 Madison Sq.
 Mention the Florists' Exchange when writing.

"Standard for Quality"

GALAX LEAVES, LEUCOTHOE SPRAYS GREEN SHEET MOSS

WM. C. SMITH, Marlton, N.C.

Sold in New York by L. J. Kreshover; Philadelphia, S. S. Pennock; Buffalo, Wm. F. Kasting; Albany, H. L. Menard; Pittsburg, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Rennie & Pino.
 Mention the Florists' Exchange when writing.



Florists!

You can make money handling
Boyd's FOUNTAIN FLOWER STANDS
 Big discounts. For particulars address
ECLIPSE NOVELTY WORKS
PULASKI, PA.
 Mention the Florists' Exchange when writing.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 100 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."

Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION
 Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS THE WHILLDIN POTTERY COMPANY

PHILADELPHIA, PA.

JERSEY CITY, N. J.

LONG ISLAND CITY, N. Y.

Mention the Florists' Exchange when writing.

Cincinnati.

News Gittings.
 At this writing, 2 p. m., April 10, a severe thunder storm, accompanied with heavy hail, is passing over us. The temperature is 72 degrees.

Chas. L. Baum, Knoxville, Tenn., was in the city on his way to Richmond, Ind. He reports a fine business, and says that at Christmas he sold American Beauty roses at \$12 per dozen, which is the highest price they ever obtained for them.

There was nothing doing at the last regular monthly meeting of the Cincinnati Florists' Society; there not being a quorum present.

The S. A. F. Trade Exhibit.

I notice in one of the Chicago trade papers a discussion going on relative to the S. A. F. O. H. awarding something substantial to the exhibitors at its meetings. As a member of the society I think the only and best award the organization could make, would be to keep the trade exhibit open at all times during the convention. The exhibitors care nothing for the honorable mention, certificates, etc. They go to the convention with their goods for the express purpose of selling them, and for revenue only. They pay their money for space, and you will find these exhibitors are not very happy and pleased when the sergeant-at-arms comes howling through the hall, endeavoring to drive the members into the meeting room.

The members who attend the annual meetings of the S. A. F. O. H. know full well the hours when the meetings are called to order, and if these men have the best interests of the society at heart, you will find them in their chairs, all attention. Give the exhibitor all that he pays for, and there will be no necessity for offering prizes, medals, certificates, etc.
 E. G. GILLET.

Kalamazoo, Mich.

Trade Items.
 Van Bochove & Bro. are now rushing the erection of their new plant and a large and increasing force of men is kept busy at work. Water has been piped through a six-inch main from the city water-works, and the firm hopes to start planting roses sometime in May. At the old plant the firm has been most successful again with roses, American Beauty being especially fine the past season.
 W. C. Cook expects to open a sales-room for Easter trade, and as a downtown office besides. Mr. Cook finds business quite satisfactory this season so far.

James Fraser, whose location brings him a large Easter and Summer trade, is this season especially well fixed for a big business right on from now. Mr. Fraser was re-elected the Eminent Grand Commander of the Knights Templar Lodge here, and according to the local papers presided with grace and ease at the annual banquet held by the order after election of officers.
 S. B.

WILKESBARRE, PA.—Ira G. Marvin has leased the property formerly occupied by Eldridge & Co., on South Franklin street, and will erect a modern new flower store on the site. The new building will be of brick, two stories high, and will be 20 by 80 feet. The front will be of French plate glass, while the interior will be furnished with a vault in the basement, with heat attachment. The first and second floors will be equipped with refrigerators, while large plate-glass skylights will be put in place on the roof.

Sphagnum Moss and Cedar Poles

Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.
 H. R. AKERS, CHATSWORTH, N. J.
 Mention the Florists' Exchange when writing.

FANCY FERNS, ETC.

TRY OUR SPECIALTIES, FRESH FROM FOREST
 Fancy Ferns, \$1.00 per 1000
 Green Galax, 80c per 1000
 Green Leucothoe, 2.50 per 1000
 Bronze Leucothoe, 4.00 per 1000
 Rhododendron Sprays, 2.50 per 1000
 All fresh stock, Ten years' experience. Cash with first order.

J. N. PRITCHARD, ELK PARK, N. C.
 Mention the Florists' Exchange when writing.

MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000.
 DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.
 Mention the Florists' Exchange when writing

FIVE MILLIONS Hardy Cut Ferns



fancy and dagger, now being over stocked, have to reduce my price from \$1.50 to \$1.25, cash with all orders. Princess Pine Roping, for Easter. Laurel Roping, hand made, first quality. Elm and Maple Trees for planting, fine Sphagnum Moss, 50c. per bbl., first quality; second quality, 30c. per bbl. All orders by mail, dispatch or long distance telephone promptly attended to.

THOMAS COLLINS, Hinsdale, Mass.
 Mention the Florists' Exchange when writing.

FERNS

FANCY, \$1.50 per 1000. DAGGER, \$1.25 per 1000.
 GALAX, brilliant bronze or green, 75c. per 1000; \$3.50 per case of 10,000.

Laurel Festooning, hand-made, full sizes, 4c., 5c. and 6c. per yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle.
 Southern Wild Smilax, \$5.50 per 50 lb. case.
 Laurel Wreaths and Prince's Pine Wreaths
 Made all sizes and prices.



Prince's Pine and made into roping. Tell us your wants and we will name you price.
MILLINGTON MASS.
 Telegraph Office: New Salem, Mass.
 Mention the Florists' Exchange when writing

JAPANESE MOSS

Packed in paper cartons. "Moss and nothing but Moss"; no sticks or dirt. Less than half the price of German Moss.

L. WERTHEIMER & CO.,
 Foreign & Domestic Specialties,
 39 Barclay St., New York.

Mention the Florists' Exchange when writing.

SPHAGNUM MOSS

\$1.50 per 8-bbl. bale; in burlap, \$2.00

PEAT

\$1.00 per 1-bbl. bag.
 F. O. B., New York City. Cash with all orders.
 Pler 34 N. E.
E. R. BAKER, NEW YORK CITY

Mention the Florists' Exchange when writing.

EXTRA QUALITY

Moss for Easter

THE NEW JERSEY MOSS & PEAT CO.
 Barnegat, N. J.

Established 1890 **IRVING FREDMORE, Prop.**

Wholesale and Retail Dealers In MOSS and PEAT

10,000 Bales On Hand for 1905

We trust you will take time to read this advertisement and be benefited by it. We have been in the Moss and Peat business for fifteen years, so in dealing with us you are sure of getting the benefit of our long experience in this line.

NATURAL GROWTH MOSS Bales of 5 barrels, \$2.25; bales of 10 barrels, \$4.25. This grade is for fine design work.
SELECTED STOCK MOSS Bales of 5 barrels, \$2.60; bales of 10 barrels, \$5.00. This grade is for very fine design work and special occasions. For Nursery Stock Moss please write us for prices. If cash accompanies order we will allow 6 per cent. off.
 Extra quality Moss the whole year.

LEAF MOULD Fibrous and Rotted Peat, per 1 barrel sack: Lots of 1 to 5 sacks, \$1.00; 5 sacks, at 90 cts.; 10 sacks, at 80 cts.; 15 sacks, at 75 cts.; 20 sacks, at 70 cts.; and 25 sacks, at 65 cts.
 Did you ever try any of our Leaf Mould, Fibrous or rotted peat? If not, order at once, as it is one of the easiest things known for growing grass flowers and plants. It is used very extensively in parks and cemeteries for these purposes.

GREEN CLUMP MOSS per sack, 1 to 5, \$1.50; 5 sacks, \$1.25 10 sacks, \$1.12; and 20 sacks, \$1.00.

SILVER SAND Per barrel, 1 to 5, \$1.75; 5 barrels, \$1.50; 10 barrels, \$1.25; 20 barrels, \$1.12; 25 barrels, \$1.00.

NOTICE. Say you saw this advt. in THE FLORIST'S EXCHANGE when you send the cash and have your choice of these

SPECIAL OFFERS

Natural Growth.	Selected
1-10 barrel bale for.....	\$3.90 \$4.50
2-10 " " " " " "	" 7.75 8.75
3-10 " " " " " "	" 11.50 13.50
6-10 " " " " " "	" 22.50 25.50
10-10 " " " " " "	" 37.00 40.00

This offer will expire on June 1.
HONORABLE MENTION.
 "Society of American Florists. This is to certify that Irving Fredmore is entitled to Honorable Mention for having clean and well packed Sphagnum Moss and Peat. Exhibited at Cleveland, Ohio, August 13-21, 1893. William Scott, Pres., Wm. J. Stewart, Secy."

The New Jersey Moss & Peat Co.

REFERENCES: Geo. M. Stump, Ches. A. Darde, J. M. Hodgson, J. M. Thoburn & Co., of New York; Jas. Weirs' Sons, 324 Fulton St., Brooklyn.

Mention the Florists' Exchange when writing.

SCRANTON FLORIST 201 North Seventh Ave. SCRANTON, PA.

Importers and Manufacturers of All FLORISTS' SUPPLIES, RIBBONS AND CHIFFONS
 Send for Catalogue

HARDY CUT DAGGER AND FANCY FERNS

\$1.50 per 1000.

WILD SMILAX, \$4.00 and \$7.00 per case.
GALAX, New crop. Green and bronze, \$1.00 per 1000.

Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelles, Cyca Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 84 1/2 Province St., Boston, Mass.
 L. D. Telephone, Main 2618.
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BAMBOO CANE STAKES

Choice Western, length 5 1/2 to 8 feet, 500 for \$2.50; 1,000 for \$4.50; 5,000 and over at \$1.00 per 1000.

TOBACCO POWDER (Strong) For Fumigating: 100 lbs. \$2.25; 1,000 lbs. \$27.00. For Dusting (Impalpable Powder) 100 lbs. \$2.75; 1,000 lbs. \$26.00.

WOOD, STUBBS & CO., Seedsmen, Louisville, Ky.

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CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY

Window Glass. Painters' Supplies.

82 Washington Ave., 31st Ward, **Pittsburg, Pa.**

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Oyster Shell Lime

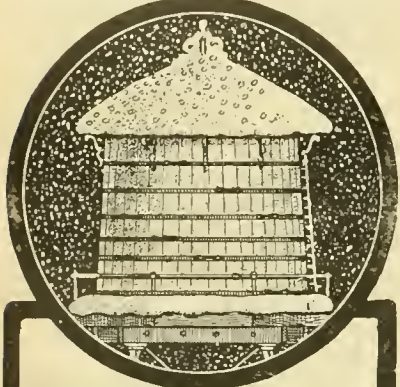
The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

HASLAM LIME CO.

Manufacturers of ONLY OYSTER SHELL LIME

118 to 130 Cliff St. **Scranton, Pa.**

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Absolutely Safe and Reliable. Ask your friends.

No Surplus Material goes into our

TANK and TOWER PLANTS

That is why they are so graceful.

But every inch of material used has been tested to at least four times the utmost strain that can be applied in service.

W. E. CALDWELL CO., Louisville, Ky.

TRADE PAPER ADV. AGENCY, N. Y. NO. 593
Mention the Florists' Exchange when writing.

The Florists' Mail Association

of America has paid 840 losses in 18 years amounting to over \$70,000. For particulars address **JOHN C. ESLER, Saddle River, N. J.**

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CYPRESS IS FAR MORE DURABLE THAN PINE

CYPRESS SASH BARS UP TO 32 FEET OR LONGER.

GREENHOUSE AND OTHER BUILDING MATERIAL. MEN FURNISHED TO SUPERINTEND ERECTION WHEN DESIRED. Send for our Circulars.

THE A.T. STEARNS LUMBER CO., NEPONSET, BOSTON, MASS.

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"It is never too late to learn."

If you have never used **Syracuse Red Pots** send sample order and find why they excel all others. Your order can be shipped to-day.

Syracuse Pottery Co., SYRACUSE, N. Y.

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Holds Glass Firmly See the Point See the Point **FULL SIZE No. 2**

PEERLESS

Clipping Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER, 114 Chestnut St., Phila., Pa.

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HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.

C. S. WEBER & CO.

10 Desbrosses St., New York

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	6.25	60 8 " " "	8.00
1500 2 3/4 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
600 3 1/2 " " "	4.50	24 11 " " "	4.80
500 4 " " "	4.50	24 12 " " "	4.80
320 5 " " "	4.51	12 14 " " "	4.60
144 6 " " "	4.16	6 16 " " "	4.60

Seed pans, same price as pots. Send for price list of cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N. Y.

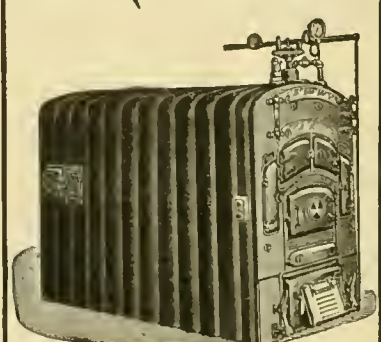
August Rolker & Sons, Agts. 81 Barclay St., N. Y. City



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"Entirely Satisfactory" That's what prominent Florists say of the celebrated

Furman Boilers



Particularly well adapted for **GREENHOUSE HEATING**

Write us for Illustrated Catalogue and Special Florists' Prices. Address

The HERENDEN MFG. CO. Dept. F. GENEVA, N. Y.

Mention the Florists' Exchange when writing.

Washington, D. C.

Beneficial Bacteria.
Dr. G. F. Moore, pathologist in the Department of Agriculture, delivered a very interesting lecture last Saturday afternoon at the National Museum, under the auspices of the Biological Society, on beneficial bacteria. He gave a detailed account of the experiments made by the Department in the distribution of nitrogenous bacteria to farmers. It is in the form of dried bacteria that this new fertilizer is furnished to the farmer in order that the experiments might be conducted under favorable conditions, packages of salts and other foods for the bacteria are sent with it. The contents of the Government packages are mixed in a gallon of water, and with this water the seed is wet. When sown it carries the bacteria with it, so that when the roots begin the bacteria can produce the nitrogen-producing nodules. Dr. Moore stated that out of 5,000 reports on experiments made last year, 80 per cent. were favorable, the failures being due to disobeying directions or similar causes.

Club Meeting.

There was a good attendance at the club meeting last Tuesday night, when four new members were admitted. The secretary announced that Miss Sipe, of the Normal School, an active member of the society for cultivating backyards and otherwise promoting a love of flowers among the city juveniles, had written him offering to give an illustrated talk before the Florists' Club at any time or place the club might designate. Miss Sipe's offer was accepted, but as the club room is on the fourth floor of Schmidt's Hall, it was proposed to try and obtain a hall for the occasion which would be more easy of access.

The Florists' Club entertained the board of directors of the S. A. F. O. H. at a banquet at the New Willard on Wednesday night, April 5, when about forty members were present. Small & Sons kindly decorated the table for the occasion. A vase of Peter Bisset's new rose stood on the sideboard, and was very favorably commented upon. Vice-President Freeman acted as toastmaster. Among those whom he called upon for a few remarks were: Professor B. T. Galloway, of the Department of Agriculture, who spoke of the cultivation among children of the love of flowers. W. R. Smith spoke of the good the florists had accomplished; E. A. Moseley, secretary of the Interstate Commerce Commission, told of the good the commission was doing with reference to railroad rates which would eventually benefit the shippers. W. H. Elliott, Philip Breitmeyer, W. F. Gude, Peter Bisset, John Hammer and several others were called upon. At the conclusion Philip Breitmeyer thanked the club on behalf of the board for the courtesies shown them during their visit.

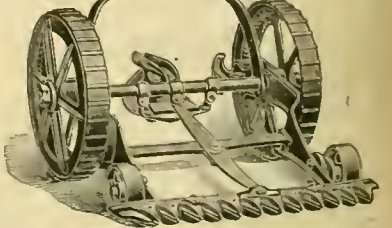
A Very Common Result.

I have received more orders through your paper than any I advertise in.

C. A. BENNETT.

Clipper Lawn Mower Co. DIXON, ILL.

The MOWER that will Kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealers for them. If they have not got them, below is the price: No. 1-12 in. Mower, \$5; No. 2-15 in. Mower, \$8; No. 3-18 in. Mower, \$7; No. 4-21 in. Mower, \$8. Send draft, money order or reg. letter. Mention the Florists' Exchange when writing.

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE **NICOTINE FUMIGANT**

WIDELY IMITATED BUT NEVER EQUALED

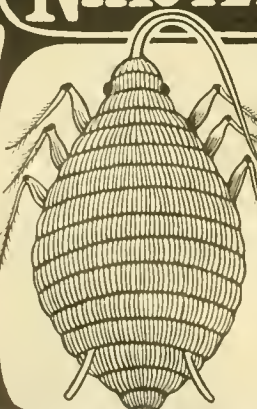
UNIFORM AND ALWAYS EFFECTIVE

DONT ACCEPT INFERIOR IMITATIONS

PRICE 60¢ PER BOX OF 12 SHEETS \$6.50 PER CASE OF TWELVE BOXES.

NICOTINE MFG. CO. ST. LOUIS, MO.

Mention the Florists' Exchange when writing.



GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction.

We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us.

Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO. LOCKLAND, O.

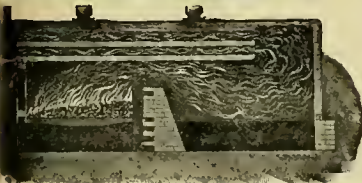
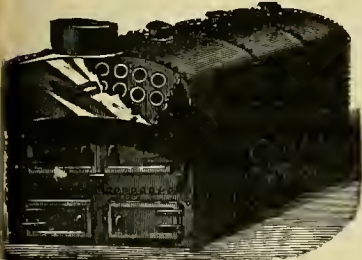
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Kroschell Bros. Co.

IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox, cast and heads of steel, water space all around front, sides and back. Write for information. Mention the Florists' Exchange when writing.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

GIBLIN & CO., Utica, N.Y.



Evans Improved Challenge

Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO. RICHMOND, IND.

Mention the Florists' Exchange when writing.

CEMENT BENCHES

NIAGARA CEMENT & CONCRETE CO. NORTH TONAWANDA, N.Y.

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THE AMERICAN GARNATION

Price, \$3.50

FLORIST'S EXCHANGE, 2 DUANE ST., NEW YORK

EUREKA GREENHOUSES

Send for catalogues Get the best

Greenhouse Material, Composition Posts

DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

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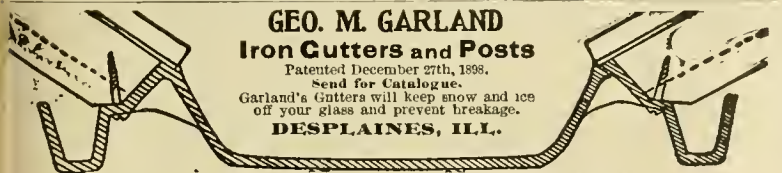
GEO. M. GARLAND Iron Gutters and Posts

Patented December 27th, 1898.

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Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

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Greenhouse Material



Hot Bed Sash

of Louisiana Cypress and

Washington Red Cedar

OUR FACILITIES INCREASED

OUR GRADES INVARIABLY THE BEST

OUR PRICES RIGHT

Write for Catalogue and Estimate, when figuring on your new houses.

DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.

Mention the Florists' Exchange when writing.

BUILD THE BEST GREENHOUSES

And so Increase Your Profits



WRITE TO-DAY TO OUR NEW YORK OFFICE for Construction Catalogue of "up-to-date" Greenhouses.

WE make them with both iron and wooden frames. We can erect your houses or supply the material fitted. Our houses are light and durable. Perfectly heated and ventilated.

LORD & BURNHAM CO.

New York Office: St. James Bldg., 1133 Broadway
General Office and Works: Irvington-on-Hudson, New York



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TILE DRAINED LAND IS MORE PRODUCTIVE



Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N.Y.

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THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

DILLER, CASKEY & CO.

Successors to JENNINGS BROS.

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

Heating! Heating! Heating!

A FEW REASONS WHY I HAVE SO MANY COMMERCIAL HEATING CONTRACTS ON HAND

THE satisfactory results obtained in the past. THE most competent greenhouse mechanics employed. THE boilers I install are a guarantee of satisfaction and economy. THE best figures on your work that can be secured.

AN OPPORTUNITY TO ESTIMATE ON YOUR HEATING OR REPAIR WORK WILL BE TO YOUR INTEREST

WM. H. LUTTON

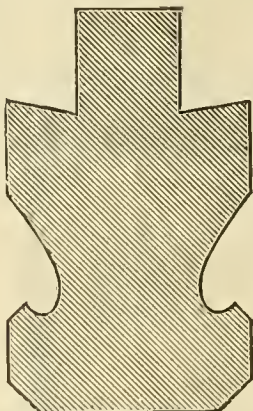
West Side Ave. Station (Tel. 174) BERGEN JERSEY CITY, N. J.

Eastern Agent Furman and Kroschell Boilers

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GULF CYPRESS Greenhouse Material

Cut and Spliced Ready for Erection



Hot Bed Sash

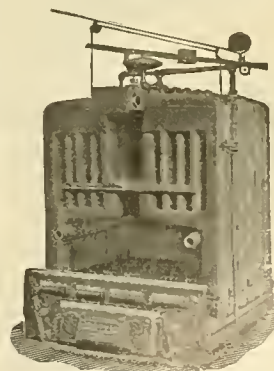
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GREENHOUSE GLASS

We furnish everything for Building

Heating Installed

Send for Prices and Catalogue



S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N.Y.

Mention the Florists' Exchange when writing.

KING CONSTRUCTION COMPANY

North Tonawanda, N. Y., and Toronto, Canada.

New Greenhouse Catalogue ready for distribution. Send for it.

Mention the Florists' Exchange when writing.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St., NEW YORK




Mention the Florists' Exchange when writing.

The Standard Ventilating Machinery

The original machine with self-rolling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.



Mention the Florists' Exchange when writing.

WHOLESALE TRADE LIST

ASPARAGUS PLUMOSUS SPRENGERI and **DECOUMBENS**, 3 in. pots, 75c. per doz., \$5.00 per 100.
AMELOPSIS VEITCHII, 3 in. pots, 75c. per doz., \$5.00 per 100; 4 in., \$1.60 per doz., \$10.00 per 100.
CLEMATIS, large flowering variety, 2 years old, 5 in. pots, \$3.00 per doz.
DRACENA INDIVISA, 3 in., 75c. per doz., \$5.00 per 100; 4 1/4 in. pots, \$2.00 per doz.; 6 in. pots, \$3.00 per doz.
GERANIUMS, scarlet, pink and white, 3 in. pots, 60c. per doz., \$4.00 per 100.
HONEYSUCKLE (Halleena), 5 in. pots, \$1.50 per doz.; \$10.00 per 100.
IVY, hardy, large leaves, 3 in., 75c. per doz., \$5.00 per 100; 4 in. pots, \$1.50 per doz.; \$10.00 per 100.
MOON VINES, 3 in. pots, 75c. per doz., \$5.00 per 100.
VINCAS, Variegated, 3 in., 75c. per doz., \$5.00 per 100; 4 1/4 in. pots, \$1.50 per doz., \$10.00 per 100.
MYOSOTIS, clumps from open ground, 60c. doz.; \$4.00 per 100.
PANSIES, separate colors, yellow, white and blue, \$2.00 per 100.
POINSETTIAS, stock plants, dormant, 6 in. pots, \$1.50 per doz., \$10.00 per 100.
 Plants from 2 1/4 in. pots, \$3.00 per 100.
Asparagus Plumosus, Comorensis, Sprengeri and Decumbens, Alyseum, Little Gem, Antirrhinum white, Abutilon Savitri, Ageratum, blue and white; Celosia, Vorchadellii, Golden Bedder and fancy varieties, Cobaea Scandens, Clematis Paniculata, Dracena Indivisa, Fuchsias, double and single; Feverfew, Little Gem, Geranium Mme. Sallerol (strong) and Mrs. Parker; Lobelia, dwarf blue; Nasturtium, dwarf; Petunias, double white; Phlox Drummondii, dwarf; Salvia, Sansiviera Zeylanica, Swainsona alba, Verbena, mammoth varieties.
CHRYSANTHEMUMS, best standard varieties, rooted cuttings, from soil, \$2.00 per 100.
CARNATIONS, pot grown, per 100. Enchantress, \$4.00; Boston Market, \$2.50; Red Sport, \$4.00; Flamingo, \$3.00; The Queen, \$3.00; Mrs. Fisher, \$3.00. Strong rooted cuttings from soil, per 100. Flora Hill, Queen Louise, Scott, Joost, Crocker, \$1.50; Crane, \$2.00; Enchantress, \$3.00. Summer Flowering, Mrs. Fisher, white; Vulcan, red; strong rooted cuttings from soil, \$2.00 per 100.
CLEMATIS PANICULATA, 4 in., \$1.50 per doz.; \$10.00 per 100.
 11th & Jefferson Sts.,
C. EISELE, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

Hitchings' NEW MOGUL BOILERS

For Hot Water or Steam
 HOT WATER Radiation from 4,200 Square Feet and Up.
 STEAM Radiation from 2,500 Square Feet and Up.

Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.

HITCHINGS & CO.
 Horticultural Architects and Builders
 233 Mercer St., NEW YORK.
 ESTABLISHED 1844.



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WE DESIGN, MANUFACTURE AND ERECT

Galvanized Steel Patent U Bar Greenhouses
 Flat Rafter Iron Framed Greenhouses
 First-class Low-priced Cypress Greenhouses

PIERSON BOILERS FOR WATER AND STEAM

PIPE, FITTINGS and VALVES for Greenhouse Heating
 VENTILATING APPARATUS, Self-Locking, Self-Oiling
 Hot Bed Sash, Benches, Special Hand-made Putty

THE PIERSON-SEFTON CO., West Side Ave. South, JERSEY CITY, N. J.

Plans and Estimates Furnished for Complete Structures or Material only



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GREENHOUSE MATERIALS

The Best Quality and Work Guaranteed.

CYPRESS SASH BARS
 Absolutely clear, sun dried; cut to exact sizes.

TENN. RED CEDAR POSTS
 In lengths as wanted.

PECKY CYPRESS BENCHES
 Economical and lasting. Coming into general use.

Get our Estimates, Plans and Suggestions on Structures Proposed. Illustrated Catalogue sent postpaid.

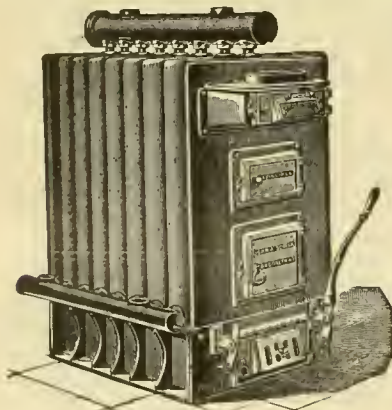
FOLEY MFG. CO., 471 W. 22nd St., CHICAGO.

HOT-BED SASH and FRAMES
 Various styles and sizes. Ready for prompt shipment.

VENTILATING APPARATUS
 It works like a charm.

PIPE, FITTINGS, GUTTERS, GLASS
 And all supplies needed in new or reconstruction work.

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Scollay Invincible Boilers

FOR HOT WATER AND STEAM.
 Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.
 Horticultural building of every description.

JOHN A. SCOLLAY
 72-74 Myrtle Ave., Borough of Brooklyn
 NEW YORK CITY.

Established 42 Years

Mention the Florists' Exchange when writing.

GLASS For GREENHOUSES, GRAPERIES, HOTBEDS CONSERVATORIES, and all other purposes. Get our figures before buying. Estimates freely given.

N. COWEN'S SON, 392-94 W. Broadway, NEW YORK

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A. HERRMANN
 Manufacturer of Floral Metal Designs

IMPORTER AND DEALER IN FLORISTS' SUPPLIES

FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK

OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.

WRITE FOR NEW CATALOGUE

Mention the Florists' Exchange when writing.

GROWERS

YOU want to have the reputation for PERFECT BLOOMS. YOU want your TRADE TO INCREASE and your REPUTATION to spread. You can secure all this by using NICOTICIDE in your houses, either as a fumigant or spray. It will clean out the pests, no doubt of that, and the experience of users through many years shows it is SAFE. The cost per can is not so low as some other preparations, but the WORK DONE is so great—THAT'S THE POINT! Send along your address and we will see if we cannot make you one of our customers.

The name of OUR preparation is NICOTICIDE.
TOBACCO WAREHOUSING & TRADING CO.,
THE MAXWELL MFG. CO., Successor, Department F., LOUISVILLE, KY

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COLUMBIA TUBS

Are for sale by all the leading Seedsmen this season. Be sure to specify **COLUMBIA TUBS** when you order if you want the best plant tub made. Manufactured by

INVALID APPLIANCE CO. 629-631 N. Halsted St. Chicago, Ill.

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Our Gallery of Fine Specimens

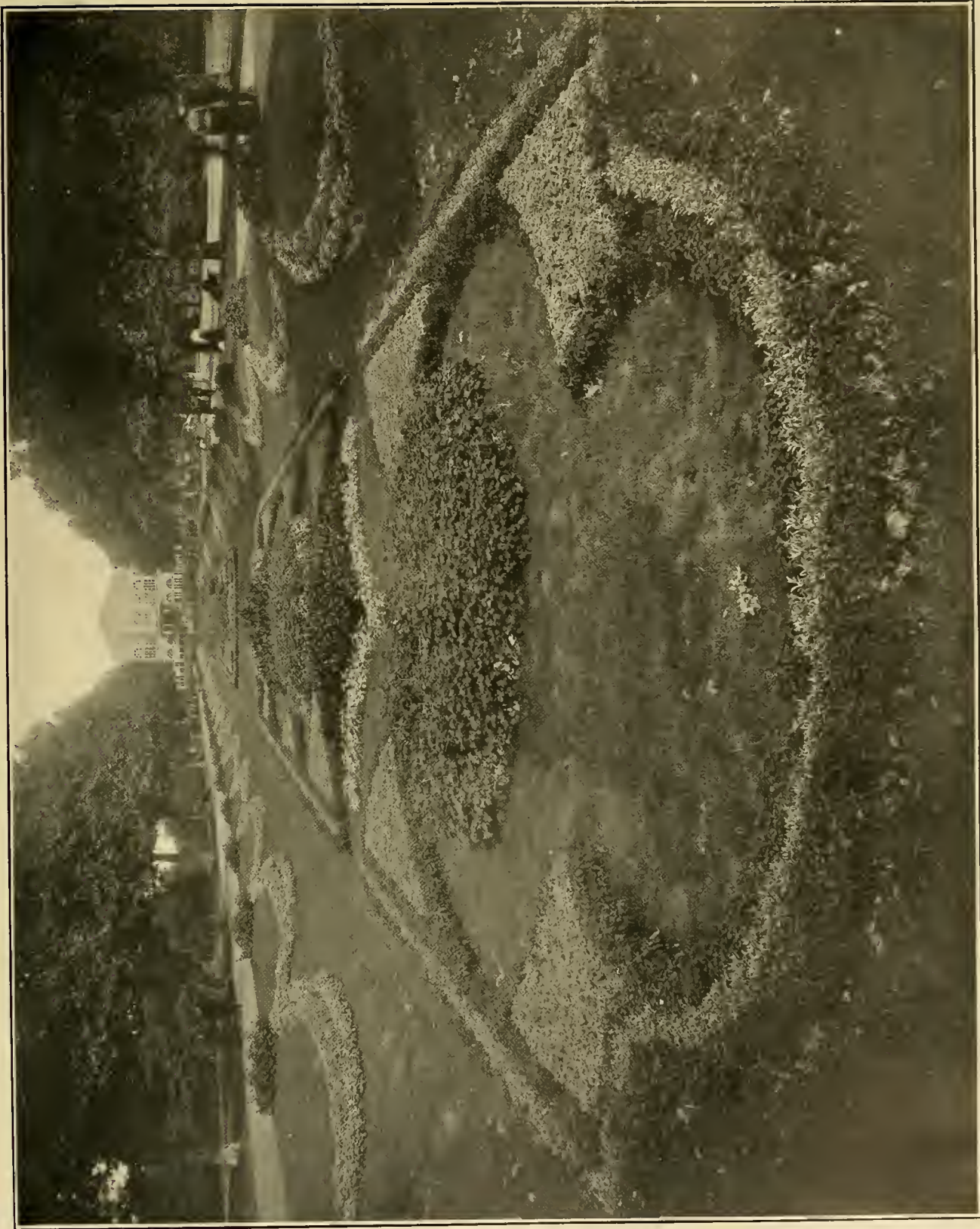


Plate 97

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THE SUNKEN GARDEN, FAIRMOUNT PARK, PHILADELPHIA, PA.

One of the remaining attractions of the Centennial of 1876. Its original conception has been maintained, different plants being used from year to year. The festooning of the banks, the ends of the festoons meeting in little circular beds of flowers, adds to the chief attraction—the central mass of bloom. The fine avenue of trees lining the bed is of the Oriental Plane. They are in exactly the position such a tree demands.

THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 16

NEW YORK, APRIL 22, 1905

One Dollar Per Year

Hardy Field-Grown Roses

Extra Strong Two-year-old Plants in Splendid Condition

Strong plants, which if planted at once will bloom freely this summer. We offer a list of extra choice varieties at \$2.00 per dozen; \$12.00 per 100, as follows: Margaret Dickson, Baronesse de Rothschild, Ulrich Bruemer, Magna Charta, Mrs. John Laing, Prince Camille de Rohon, Capt. Christy, Jules Margottin, Perles des Blanchers, White Rose, Crested Moss, Rugosa Alba, Rugosa Rubra, etc., etc. Also

FRAU KARL DRUSCHKI This is a queen among white roses, of the very largest size, pure snowy white, long pointed buds with shell-shaped petals, opening large and full. A continuous and free bloomer. The finest hardy white rose in cultivation. \$5.00 per dozen; \$30.00 per 100.

CAPT. HAYWARD Extra choice. Bright carmine-crimson. Very large. \$2.50 per dozen; \$16.00 per 100.

MRS. R. G. SHARMAN-CRAWFORD Deep rosy pink. \$2.50 per dozen

SOLEIL D'OR Golden orange-yellow. \$2.50 per dozen.

MONTHLY AND HYBRID TEA ROSES Strong field-grown plants. \$2.50 per dozen; \$16.00 per 100, as follows: La France, Gruss an Tepiltz, Maman Cochet, Belle Siebrecht, Hermosa, Gloire de Dijon, American Beauty, Kaiserin Augusta Victoria, etc., etc.

New Dwarf Perpetual-flowering

CRIMSON, OR BABY RAMBLER (Mme. Norbert Levasseur). Strong field-grown plants. \$6.00 per dozen.

STANDARD, OR TEA ROSES 12 best named sorts; fine collection. \$5.00 per dozen; \$35.00 per 100.

AMPELOPSIS VEITCHII. Extra strong field-grown plants. \$12.00 per 100.

ARISTOLOCHIA SIPHO (Dutchman's Pipe). Strong field-grown plants. \$3.50 per dozen.

HYDRANGEA PANICULATA GRANDIFLORA. Strong field-grown plants. \$12.00 per 100.

CLEMATIS Jackmanni, Henryi, Duke of Edinburgh, Hybrida Sieboldi, etc. Strong two-year-old field-grown plants. \$3.50 per dozen; \$25.00 per 100.

CLEMATIS Ville de Lyon. Few large red-flowered clematis. \$9.00 per dozen.

AZALEA MOLLIS. Fine bushy plants, well budded. \$4.50 per dozen; \$30.00 per 100.

Also large stocks of **Colorado Blue Spruce, Retinosporas, Boxwood** in bush and Pyramidal form, **Hardy Phloxes**, etc., etc.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

SURPLUS PERENNIALS

OF HERBACEOUS PLANTS For Present Planting

We have a few thousand extra plants of the following desirable Standard Varieties of Perennials, most of which are suitable for Florists' use either as pot plants, cut flowers, or outside planting, etc. Can make shipment promptly on receipt of order. Mention this ad. and we will ship 10 of any one variety at 100 rates

HARDY PERENNIAL PLANTS

	Per 100		Per 100
Achillea, The Pearl, 3 in. pots.....	\$1.00	Funkia undulata media pleta, field-clumps.....	\$9.00
Agrostemma coronaria, field-grown.....	4.00	Gaillardia grandiflora, 4 in. pots.....	4.50
Ajos-Jovis, field-grown.....	5.00	Gypsophila monstrosa, 3 and 4 in. pots.....	10.00
Alyssum saxatile compactum, field-grown.....	6.00	Heuchera sanguinea, 3 in. pots.....	7.50
Anthem. tinctoria, 3 in. pots.....	4.00	Hibiscus moscheutos, field-grown clumps.....	5.00
Aquilegia canadense..... One-year, field-grown.....	5.00	Crimson Eye, field-grown clumps.....	5.00
chrysantha..... " " ".....	5.00	Heperia natronalis field-grown clumps.....	4.00
alba..... " " ".....	5.00	candidissima, field-grown clumps.....	4.00
corulea..... " " ".....	8.00	Hypericum Moserianum, extra strong divisions.....	8.00
hybrida..... " " ".....	6.00	Iris Germanica, in 22 named varieties, dormant roots.....	3.00
nival grandiflora..... " " ".....	6.00	Lychnis chalcidonica, field-grown.....	6.00
Sklaueri..... " " ".....	6.00	Monarda didyma, 3 in. pots.....	6.00
vulgaris..... " " ".....	5.00	Myosotis alpestris, field-grown.....	4.00
alba pleua..... " " ".....	6.00	Victoria, field-grown.....	4.00
Chrysanthemum maximum, 3 in. pots.....	6.00	palustris semperflorens.....	4.00
Coroopsis lanceolata grandiflora, 4 in. pots.....	4.00	Nepeta glechomum hederacea variegata, 2 1/2 in. pots.....	5.00
Delphinium Argosy, 3 in. pots.....	15.00	Physostegia virginica, field, strong divisions.....	6.00
Belladonna, 3 in. pots.....	15.00	Phlox decussata, 22 named vars, 3 in. pots.....	5.00
Fernosium, field-grown.....	8.00	suffruticosa, named var, 2 1/2 in. pots.....	5.00
slatoni hybridum, field-grown.....	8.00	Poppy Orientale, 3 in. pots, in variety.....	5.00
zaili, 3 in. pots.....	15.00	Primula aequalis large plants.....	6.00
Daisy, Shasta, 3 in. pots.....	4.00	Rudbeckia fulgida field-grown.....	6.00
Dianthus barbatus, field-grown clumps.....	4.00	Golden Glow field-grown.....	2.50
Napoleon III, hardy pink, 2 1/2 in. pots.....	10.00	Salvia argentea.....	8.00
plumarius, Scotch pink, 2 1/2 in. pots.....	5.00	Santolina incana.....	4.00
Eupatorium ageratoides, field-grown clumps.....	5.00	Thalictrum aquilegifolium, 2 1/2 in. pots, extra strong divisions.....	8.00
Funkia aurea var., field-grown clumps.....	5.00		

ROSES DORMANT BUDED and OWN ROOT FIELD-GROWN H. P. & H. T. See our advertisement in previous issues. We have a quantity of nearly all varieties to serve you from at low prices.

CLUCAS & BODDINGTON CO. 812-814 GREENWICH ST. N. Y. CITY
 Corner Jane Street. Telephone, 1063 Chelsea.
PALISADE NURSERIES, SPARKILL, N. Y.
 Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

GRAFTED STOCK NOW READY.



Kaiserin, Carnot, Bride, Bridesmaid, \$15.00 per 100; \$120.00 per 1000

OWN ROOT STOCK.

Kaiserin, Carnot, Bride, Bridesmaid, 2 1/4 in. pots \$4.00 per 100; \$35.00 per 1000

AMERICAN BEAUTY, 2 1/4 in., \$6.00 per 100; \$50.00 per 1000
 My plants are all clean, healthy and vigorous. Send for sample.

W. H. ELLIOTT, Brighton, Mass.

New Scarlet Carnation Cardinal

SPECIAL OFFER Having been very favorably impressed with this Carnation, we purchased a large stock of it, securing early delivery, with the intention of growing it for the New York Market, but we have received such a large number of orders for our new Carnation **ROBERT CRAIG** that it has become necessary for us to devote the space intended for the Cardinal to stock plants of Robert Craig for propagating purposes. Therefore, our selected stock, consisting of 3,000 plants from 2-inch pots, is now for sale. It is in especially fine condition and we are certain will prove a very profitable investment for any florist who needs a first-class fancy scarlet.

PRICES

25 Plants, - - -	\$3.00	100 Plants, - - -	\$12.00
50 Plants, - - -	6.00	250 Plants, - - -	25.00
1000 Plants or more, \$100.00 per 1000			

Remember that you can secure a Discount of 5 per cent. from the above prices by sending Cash with the order.

COTTAGE GARDENS COMPANY
 G. W. WARD, President Queens, L. I., N. Y.

With the Advent of Spring

at your very door, you will want these items

Asparagus Plumosus Nanus

Per 1000 seeds, \$5.00.



- SMILAX..... per oz., 35c
- MUSA ENSETE..... per 100 seeds, 90c.
- DRACENA INDIVISA..... per oz., 30c.
- ASTERS..... trade pkt., 25c.
- PERUVIAN GUANO, just received, per 100 lbs., \$2.25.
- Sterilized and Pulverized SHEEP MANURE, arrived to-day, per ton, \$20.00.
- TOBACCO STEMS, per 100 lbs., \$1.25; per ton, \$17.00.
- NICO FUME, can of 24 sheets, 75c.; can of 144 sheets, \$3.50.
- APHIS PUNK, per box, 12 rolls, 60c.; per case, 12 boxes, \$6.50.

TO CLEAN UP

- LILIUM ALBUM..... per 100, \$6.50
- LILIUM RUBRUM..... per 100, 6.25
- Berlin and Hamburg LILY OF THE VALLEY PIPS, per case, (2500), \$20.00.
- HAMBOO CANES..... per 1000, \$6.00

WM. ELLIOTT & SONS, NEW YORK.

Mention the Florists' Exchange when writing.

WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

Florists' Flower Seeds
NEW CROP NOW READY.
Catalogues free on application.
WEEBER & DON, Seed Merchants and Growers,
114 Chambers Street, NEW YORK

Summer Flowering BULBS

- | | | |
|---------------------------------|--------|---------|
| | 100 | 1000 |
| Ismene Grandiflora | \$5.00 | \$50.00 |
| Madeira Vines | 1.00 | 8.00 |
| Spotted Callas | 3.00 | 25.00 |
| Tritoma Picta | 7.00 | 60.00 |
| Gladiol, mixed, 1 1/4 in. diam. | .60 | 5.00 |

HEADQUARTERS FOR LILIES, APIOS, CALADIUMS, ETC.

Eight per cent. discount for cash. Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.

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NEW SEEDS

- Cineraria,** Gold Medal Mixture, Tall or Dwarf, 1/2 tr. pkt., 60c.; tr. pkt., \$1.00.
- Primula,** Fringed Chinese, Alba-magnifica, Chiswick Red, Blue, Kermesina splendens, striped or mixed, 1/2 tr. pkt., 60c.; tr. pkt., \$1.00.

ALL OTHER SEASONABLE SEEDS.

Let us figure on your wants in

FALL BULBS
HENRY PHILIPPS SEED CO.
Toledo, Ohio

Mention the Florists' Exchange when writing.

TUBEROSES



Double Dwarf Pearl, Hand-Picked Bulbs, Blooming, Size 3-4 in., Special Offer, F. O. B. New York:

- 1,000 for \$3.00
- 2,000 for 5.50
- 3,000 for 7.50
- 5,000 for 11.00

- | | |
|--------------------------|---------|
| | Per 100 |
| LILIUM RUBRUM 7-9 in. | \$6.00 |
| 9-11 in. | 8.00 |
| 11-13 in. | 11.00 |
| LILIUM ALBUM 7-9 in. | 6.00 |
| LILIUM MELPOMENE 7-9 in. | 6.00 |

84 Randolph St. CHICAGO **VAUGHAN'S SEED STORE** 14 Barclay Street NEW YORK

Mention the Florists' Exchange when writing.

Gladiolus Bulbs

MIXTURES		NAMED VARIETIES	
	Per 100	Per 100	1000
Groff's Hybrid Seedlings, mixed	\$2.00	\$15.00	\$30.00
Meadowvale, mixed	1.00	10.00	14.00
General, mixed	.75	7.00	12.00
Lemoine's, mixed	3.00	15.00	15.00
Lemoine's, extra fine mixed	2.50	20.00	20.00
Childsall, mixed	2.00	18.00	18.00
Pink and Rose, mixed	1.25	11.00	12.00
Yellow and Orange, mixed	3.50	30.00	30.00
Striped and Variegated, mixed	2.25	20.00	22.00
White and Bright, mixed	1.40	12.00	45.00
Scarlet and Red, mixed	1.15	10.00	25.00

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK
Branch Store, 404 East 34th Street, New York

SEED BAGS For The Trade

We manufacture a full line in Manila, White, Amber or Colored Laid Papers. Also print in quantities. Samples on application. Send list of requirements for estimate.

THE BROWN BAG FILLING MACHINE CO.
Bag Dept. FITCHBURG, MASS.
Mention the Florists' Exchange when writing.

SPECIAL OFFER LILIES—CLEMATIS

Lilium Anatum bulbs, sound and in prime condition. Per 100 1000
Good sized bulbs..... \$5.00 \$45.00
Large bulbs..... 6.00 50.00

CLEMATIS. Home-grown plants in good condition. Per 100
Jackmani, 2-year old..... 18.00
" 2-year, medium..... 10.00
Henry II, 2-year old..... 18.00
" 2-year old..... 14.00
Mme. Ed. Andre, 2-year old..... 18.00
" 2-year old, medium..... 15.00

V. H. HALLOCK & SON, QUEENS, N. Y.

LEONARD SEED CO. CHICAGO
WRITE FOR PRICES WE ARE HEADQUARTERS FOR ONION SETS
Flower Seeds and Bulbs
WHOLESALE SEED GROWERS
Seeds for present requirements ready to ship. Contract orders for delivery after harvest 1905 are being booked now. Beans, Peas and Garden Seeds. Write for Prices

HAVING BEEN AWARDED THE GRAND PRIZE For My Exhibition of GLADIOLI AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable. Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
Mention the Florists' Exchange when writing.

PRIMROSE SEED

Improved Chinese Primrose. Finest grown, large flowering fringed, single and double, mixed, 500 seeds, \$1.00; half pkt., 50cts. Have also the varieties separate.

PANSY, FINEST GIANTS
The best large flowering varieties, critically selected. Mixed, 5000 seeds, \$1.00; half pkt., 50 cts.; highly praised by our many florist customers.
500 Seeds of GIANT "MME. PERRET" added to every \$1.00 pkt. of Giant Pansy Seed.
CINERARIA. Finest large flowering dwarf, mixed, 1000 seeds, 50 cts.
PANSY PLANTS. Finest Giants, mixed, strong, in bud and bloom, \$1.50 per 100.
JOHN F. RUPP, THE HOME OF PRIMROSES, Shiremanstown, Pa.
Mention the Florists' Exchange when writing.

Clearing Out Sale. Need the Room!
H. P. ROSES in fine condition, as long as stock on hand, \$70.00 per 1000; \$40.00 per 500; \$9.00 per 100, in the following varieties: Baroness Rothschild, Duke of Edinburgh, Magna Charta, Perle des Blanches, Paeonia, General Jacqueminot, Victor Verdier.
CRIMSON RAMBLERS extra strong, \$12.00 per 100.
CANNAS Dry roots, Austria and Burbank, \$15.00 per 1000.
Prices on all other Summer and Fall Stock cheerfully given by
F. W. O. SCHMITZ, Prince Bay, N. Y.
Mention the Florists' Exchange when writing.

COLD STORAGE VALLEY THE YEAR ROUND

Philadelphia Florists pronounce them the **FINEST ON THE MARKET.**
Write for prices.

SAGO PALM STEMS (Cycas Revoluta)

Just received an importation of splendid, shapely stems, ranging in weight from 1 to 5 lbs. and 5 to 10 lbs. each. Per lb., 12c.; 10 lbs., \$1.00; 25 lbs., \$2.25; 100 lbs., \$9.00. Special quotations on case lots of 300 lbs.

JOHNSON & STOKES'

Evergreen Velvet Lawn Grass Seed

Put up in very attractive pint, quart, 2-quart and 4-quart lithographic cartons.

Liberal Discount to Florists and Dealers.

JOHNSON & STOKES, 217-219 Market Street, SEEDSMEN PHILADELPHIA, PA.

SPRING BARGAINS

JAPANESE MAPLES

Every florist should have some of these for his customers. If planted in pots now they will leaf out shortly and the sight of the exquisite foliage will bring customers. We have all colors, Blood Red, Claret Color, Golden, Variegated, Brilliant Green. 18-30 in., each 40c., doz., \$4.00; 21-30 in., each 60c., doz. \$6.00.

BRAZILIAN CALADIUMS

Unsurpassed in beauty and riches of coloring, rose leaves with black stems, white with green stems. Dreams of foliage. Rarest Novelties, each 60c., doz. \$6.00; Beautiful Sorts, each 30c., doz. \$3.00.

RHODODENDRONS (Cheap)

A small surplus from an import, 24-28 in. high, each \$1.25, doz. \$12.00.

H. H. BERGER & CO., 47 Barclay St., New York

Mention the Florists' Exchange when writing.

NARCISSUS For Early Forcing

Golden Spur, \$17.50; Princeps, \$5.50; Emperor, \$12.50; Ornatus, \$4.50. Above prices are per 1000.

HUBERT & CO. N. LE PAGE, Rep. Mt. Vernon, N. Y. Mention the Florists' Exchange when writing.

NEW Flower Seeds

ASTERS—Best German Grown

Queen of the Market..... 15 Oz. \$.50
Victoria..... 50 1.75
Hiant Victoria..... 60 2.00
Snoxy Fl. Perfection..... 45 1.50
Temples' Branching, Home-Grown.. 20 60
Above in Separate Colors or Mixed.
Fresh Tobacco Stems..... \$1.50 per bale of 300 lbs.

W. C. BECKERT, Allegheny, Pa. Mention the Florists' Exchange when writing.

LOUISIANA

The Grand Prize Canna

We exhibited at St. Louis 34 varieties of Cannas, all of which were originated and introduced by ourselves. On this exhibit we fairly won the Grand Prize, the only Grand Prize awarded to Cannas at the St. Louis World's Fair.

LOUISIANA is a Giant Orchid-Flowering Canna. It was exhibited at St. Louis as an untraced seedling and attracted much attention. The flowers are enormous in size; vivid scarlet in color, and covered with a glowing velvety sheen. It is a great bloomer and has splendid green foliage.

65 cts. each; \$5.00 per doz.; \$35.00 per 100

Including Mont Blanc, the only white canna; Buttercup, the very best yellow canna; Brandywine, the best crimson-flowered bronze-leaved canna; Gladiator, the most striking yellow-spotted canna; Betsy Ross, the best pink canna; we offer 65 varieties, the most complete and largest stock of Cannas in America. Ask for list and prices.

The Conard & Jones Co. WEST GROVE, PA. Mention the Florists' Exchange when writing.

PRIVATE

California, 12-15 in.....	Per 100	1000	IVY	Per 100
" 18-24 in.....	\$1.25	\$9.00	3 1/2 in. pots.....	\$8.00
" 2-3 ft., good.....	1.75	15.00	2 in. pots.....	3.00
" 2-3 ft., 3 years.....	2.50	20.00	Field grown plants, 18-24 in.....	5.00
" 3-4 ft., heavy.....	2.75	25.00		
" 4-5 ft.....	4.50	40.00		
	7.50	65.00		

HYDRANGEAS	Per 100
P. G., 2-3 ft., good.....	\$6.00
" 3-4 ft., fine.....	9.00
" 3-4 ft., XX fine.....	11.00

ELIZABETH NURSERY COMPANY, Elizabeth, N. J. Mention the Florists' Exchange when writing.

Michell's Superior Branching Asters

Our selected strain of Semple's Late Asters is a money maker. Seed saved from the finest and largest double flowers, solid colors, with long stiff stems, which command top-notch prices. Try them with following colors:

Lavender, Pink, Purple, Red, White and Mixed
Per Tr. Pkt., 30c.; per oz., \$1.00

For Select List of FLOWER SEEDS—BULBS—SUPPLIES and everything for the Florist, see our Wholesale List. Mailed on request.

HENRY F. MICHELL CO., 1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.

W. W. RAWSON & CO. Seedsmen, 12 Faneuil Hall Square, BOSTON, MASS.



We are Now Booking Orders for

Lilium Harrisii

for the coming season and florists are invited to send us a list of the sizes and quantity wanted, that we may quote them prices.

J. M. THORBURN & CO. 36 Cortlandt St. New York. Mention the Florists' Exchange when writing.

1905 Crop Now Ready ASPARAGUS SEED

Plumosus nanus, lath-house grown, \$1.75 per 1000. Sprengerl, 75c. per 1000. SMILAX SEED, \$1.25 per lb. E. FLEUR Oak Grove Nurseries 406 North Los Angeles Street, LOS ANGELES, CAL. Mention the Florists' Exchange when writing.

CANNAS

True, sound, selected roots, 2, 3 and more eyes, Allemands, Austria, Italia, P. Marquand, Robustus, red leaf, \$2.00 per 100; \$15.00 per 1000. Mrs. Kate Gray, new, orchid-flowered, 6-7 in. across, scarlet overlaid with gold; Martha Washington, dwarf, finest pink; Black Beauty, etc.; \$3.00 per 100; \$25.00 per 1000. DAHLIAS field-grown, leading kinds, for cut-flowers named whole roots, \$3.50 per 100; \$30.00 per 1000. Shalfrood Greenhouses, Grange P. O., Ballou, Md. Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA Blue List of Wholesale Prices mailed only to those who plant for profit. Mention the Florists' Exchange when writing.



NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J. Mention the Florists' Exchange when writing.

LAWN GRASS SEED in Bulk and Packages
Dickinsons, Evergreen, and Pine Tree Brands
SPECIAL MIXTURES SEED FOR GOLF GROUNDS
MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO
Mention the Florists' Exchange when writing.

CRIMSON RAMBLER **OWN ROOTS.**
 3500 No. 1 1/2 \$7.50 per 100
 6300 " 2 5.00 "

1000 PÆONIA TENUIFOLIA \$16.00 per 100.
HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.
 Ask for Price List for full assortment.

HIRSH T. JONES, Union County Nurseries ELIZABETH, N. J.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.

BURBANK'S PHENOMENAL BERRY TIPS \$2.00 Per Dozen
 \$10.00 Per 100

Send for Price List, Illustration and Description to

A. MITTING

Kennon Street SANTA CRUZ, CALIF.

Mention the Florists' Exchange when writing.

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 that print RARELY. That's the kind we make—have been since '73.

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 706 Chestnut Street, PHILADELPHIA, PA.

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Onion Sets

CHOICE STOCK

Samples and Prices on Application

VAUGHAN'S SEED STORE

84-86 Randolph St. CHICAGO
 14 Barclay St. NEW YORK

Mention the Florists' Exchange when writing.

FISCHER'S

GRAND FREESIA PURITY

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Bulbs no larger than dried wax beans of this grand Freesia make as large a flower as the large bulbs, only the stems are shorter. All growers should try some of this Queen of Freesia, for when "once grown always grown." Price for large bulbs, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y.

Mention the Florists' Exchange when writing.

ONION SETS

BLOOMSDALE FARM STOCK

Very Superior, hard, dry, not sprouted, clean. Few if any equal in these respects.

ASK FOR SAMPLES AND PRICES

D. LANDRETH SEED COMPANY

BRISTOL, PA.

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION.

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

FLORAL PARK, N. Y.—John Lewis Childs has secured possession of Frank Banning's new seedling gladiolus, known as Reuben H. Warder, and expects to offer it to the trade next season.

NEWPORT, R. I.—The George A. Weaver Company is advertising largely sweet peas that have been treated with "nitro-culture." Both gardeners and seedsmen alike are watching the results of this matter with much interest. The Weaver company has also offered prizes to its customers for the best bunches of this flower grown from this treated seed.

PORTSMOUTH, VA.—There are few people in Portsmouth who know that just beyond the city limits there is one of the finest and largest flower farms in this country. Started two or more years ago as an experiment, by an English firm, it is now an established business and yields a large revenue. The idea of ten acres in nothing but flowering narcissi, is one that is hard for the average mind to grasp. The farm is owned by the Hubert Bulb Company. Every day, at this season of the year, Manager J. Guille may be seen at the express offices supervising the shipment of the most remarkable truck that is shipped out of Norfolk county, famous, although it is for everything the soil produces.

He states that there is an excellent market for the product of his farm and that just about this time of year he is shipping every day about 25,000 blooms to New York, Baltimore, Boston, Pittsburg, Philadelphia and other points. Good prices are realized, too. About \$1 per 100 is the present ruling price, and at some seasons this is higher.

Mr. Guille says that the soil hereabouts is very fine for the purpose to which he is adapting it. After a search all over the country, the firm he represents selected this point on account of its equable climate and soil conditions. It was necessary to make extensive experiments before this decision could be reached. These experiments, as stated, however, have resulted most successfully and the future of the industry is assured.—Star.

ROSES! CLEMATIS!

To close out our surplus on these Items we are making low quotations on
Strong 2 Year Dormant Plants—Crimson Rambler, White Rambler, Pink Rambler, Yellow Rambler, Mme. G. Luizet, Magna Charta, Fran Karl Druschki.

Strong 2 Years—Clematis Jackmanni, Henrylli, Mme. E. Andre, Ramona Ampelopsis Veitchii. Write for prices.

Bride, Perle, Cochet Pink and White, Golden Gate and many others, from 5 in. pots, at \$10.00 per 100.

W. & T. SMITH COMPANY, Geneva, N. Y.
 Mention the Florists' Exchange when writing.

DILL AND PARSLEY SEEDS.—In the protest of Harry Hawley against the assessment of duty by the collector of customs at the port of Galveston, on the authority of G. A. 5272, the Board of General Appraisers sustained the importer's contention that certain dill and parsley seeds should have been classified under paragraph 548, tariff act of 1897, relating to aromatic seeds which are drugs.

CORN IMPROVEMENT IN INDIANA is the title of Bulletin 105 (March, 1905,) of the Purdue University Agricultural Experiment Station. It is stated that "much of the seed corn sold by so-called seed corn dealers is nothing more than crib corn. This state of affairs can be remedied only by the purchasers insisting on being supplied with corn on the ear, and accepting it only after they have satisfied themselves as to its quality and germinating power. All honest dealers will guarantee their corn. There are a number of good dealers in the State who breed their own corn, and these men deserve to get a good price for what they offer for seed."

European Notes.

Our dreams of a complete termination of the Winter have been rudely dispelled by an attack of cold north winds accompanied to-day with a heavy fall of snow. It is to be hoped that this check will be but temporary, for vegetation is now so far advanced that the destruction would be terrible in its effects both on seedlings and yearling plants. The March and April broccolis are now in full head, and are showing signs of serious injury inflicted by night frosts. The later and more valuable varieties are so well protected by their foliage that they may be accounted safe. Early and delicate sorts of turnips cause us the greatest anxiety, as they are dying off without any apparent cause. Rutabagas of the Monarch and Best-of-All type are also doing so badly that holders of reliable stocks decline to sell except at an advanced price.

The heavy trade in garden seeds done during the months of February and March has been succeeded by the inevitable slump. As a result, the timid dealers are falling over each other in their efforts to dispose of any small surplus they may have on hand. Consequently, the advertising columns of the trade papers teem with quotations which, assuming the goods are genuine (quite an assumption, by the way, in many cases), are far below the first cost. Only the greedy bargain hunter benefits by this folly, and they not infrequently find that they have paid too dear for their whistle.

English horticulture has just lost one of its few remaining grand old men in the person of William Paul, the eminent nurseryman and seedsman of Waltham Cross. While he was truly an all-round man, he will be chiefly remembered for his work as a rosarian in which he achieved a distinction second to none. An untiring worker, a diligent student, combining with a keen intellect a most gentle and affectionate disposition, a man whose word was his bond both in its letter and its spirit; the soul of honor, utterly incapable of anything sordid or mean; his long life of 83 years has closed serenely and beautifully as a perfect autumnal day.

EUROPEAN SEEDS.

P. S.—The extraordinary heat now prevailing in Southern Spain (112 degrees F. in the shade), is quite out of the seed growing region.

Large Evergreens

All the leading kinds from 2 to 7 feet high, perfect form. Write for prices.

OAK PARK NURSERIES, Patchogue, L.I., N.Y.
M. F. TIGER, Proprietor.

Mention the Florists' Exchange when writing.

100,000 STRONG

One and two-year Palmetto Asparagus; 3 varieties of Strawberries; Ward Blackberry (send for descriptive circular) one of the most reliable for family or market; other small fruits. Peach and other fruit trees. Low Prices for First-Class Stock.

CHAS. BLACK, Hightstown, N. J.
 Mention the Florists' Exchange when writing.

KOSTER & CO.

Hollandia **BOSKOOP, HOLLAND** Nurseries
 Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.
RHODODENDRONS, H. P. ROSES, Etc.
 Catalogue free on demand.

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.

Mention the Florists' Exchange when writing.

RHODODENDRONS

Maximum, per 100, 6 in., \$5.00; 12 in., \$10.00; 20 in., \$15.00; 30 in., \$20.00; 40 in., \$25.00; 60 in., \$40.00, one or more stalks, with grub, 60c. to \$1.00 each. Choice plants. Cash with first order. Send for price list of trees, plants, etc.

J. N. PRITCHARD, ELK PARK, N. C.
 Mention the Florists' Exchange when writing.

AT BARGAIN PRICES

175 Magnolia Purpurea, from 2 1/2 to 6 feet high, very bushy.
 60 Magnolia Kobus, 4 to 8 feet tall, 3 to 5 feet through.

J. R. FREEMAN
 612 13th STREET, N. W., WASHINGTON, D. C.
 Mention the Florists' Exchange when writing.

TREES

Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country.

Gold Medal—Paris—Pan-American—St. Louis, 102 prizes New York State Fair, 1904.

Illustrated Descriptive Catalogue FREE on Request.

ELLWANGER & BARRY
 Mt. Hope Nurseries, Rochester, N. Y.
 Drawer 1044 U Established 65 Years.

Mention the Florists' Exchange when writing.

Dormant Cannas

We have yet unsold, in good condition, the following varieties of DORMANT CANNAS:

USTRIA	Per doz.	100
AUL MARQUANT	\$0.30	\$2.00
RAUD ROUGE	30	2.00
ORUSTA	30	2.00
IRGINIA	50	2.50
EACHBLOW	50	2.50
LEMANNIA	30	2.00
DEEN OF HOLLAND	50	3.00
APA	75	4.00
ONG ISLAND	75	4.00
ORTE DE BOUCHARD	50	3.00
INNEBAR	75	4.00
ENNYSON	75	4.00
D. CABOS	75	4.00
RONUS	75	4.00
D. AVELLAN	50	3.00
D. EISELE	50	3.00
USAFOLIA	75	3.50

Glucas and Boddington Co. 812-814 Greenwich St., N. Y. City, Cor. Jane St. Telephone 1063 Chelsea. Palisade Nurseries, Sparkill, N. Y. Importers Exporters and Growers of Seeds, Bulbs and Plants. Mention the Florists' Exchange when writing.

then in Europe come and see us and inspect our extensive Nurseries. Gouda is our railroad depot hardy, Fancy Ornamental Nursery Stock

J. BLAAUW & CO.

BOSKOOP, HOLLAND Catalogue free on demand. Headquarters for the most Colorado Blue Spruces—purest, bluest strain mention the Florists' Exchange when writing.

A FEW THOUSAND SEEDLING BERBERIS THUNBERGII, ROSA RUGOSA and ROSA LUCIDA Write for prices.

DNEY LITTLEFIELD, North Abington, Mass. mention the Florists' Exchange when writing.

Vegetable Plants

Large transplanted plants of Cabbage, celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants. Write for price list.

J. E. HUTTON & SON

CONYNGHAM, PA. mention the Florists' Exchange when writing.

Hardy Native Pennsylvania RHODODENDRONS

50,000 Rhododendron Maximum, selected clumps, 3 to 6 feet; 2000 Kalina Latifolia, 2 to 3 ft. clumps, very fine, especially suited for fancy lawns and estates where immediate and beautiful effects are wanted. Seed gardeners and florists who are in need of this class of stock will do well to write us. Special prices for the next 30 days; shipments can be made from now until May 21. Address

THE RIVERSIDE NURSERY CO. Confluence, Pennsylvania mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street WEEHAWKEN HEIGHTS, N. J. P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES Rhododendrons, Azaleas, Spiræa Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts. PRICES MODERATE mention the Florists' Exchange when writing.

LARGE TREES AND SHRUBS

MAI'LES, Norway, Silver, Negundo, Scarlet, 2 to 4 inches. LINDENS, American, European, 2 to 4 inches. POPLAR, Lombardy, Bolesaea, 1 1/2 to 2 1/2 inches. BETULA ALBA, Tulip, 6 to 7, 7 to 8 ft. PRIVET, 2 years. Very low price.

OAK PARK NURSERIES, Patchogue, L.I., N.Y. M. F. TIGER, Proprietor. Mention the Florists' Exchange when writing.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

PETERSON NURSERY 506 W. Peterson Ave. CHICAGO, ILL. mention the Florists' Exchange when writing.

BOBBINK & ATKINS

Nurserymen and Florists VISITORS INVITED.

Ask for Wholesale Catalogue. RUTHERFORD, N. J. mention the Florists' Exchange when writing.

CALIFORNIA PRIVET CHEAP

100,000 well grown plants, 3 to 4 ft., selected \$4.00 per 100; \$25.00 per 1000. 2 1/2 to 3 1/2 ft., 7 or more branches, \$2.50 per 100; \$17.50 per 1000; 20 to 30 in., 6 or more branches, \$2.00 per 100; \$13.00 per 1000. 18 to 24 in., light, 2 years, 3 or more branches \$1.50 per 100, \$7.00 per 1000. All of the above boxed, f. o. b. here. For car or large lots write before placing your orders.

CHAS. BLACK, - HIGHTSTOWN, N. J. mention the Florists' Exchange when writing.

OAKS

MACROCARPA, PIN, RED WILLOW OAKS. Fine trees, 8 to 12 feet. Ask for Price List of Trees and Shrubs.

SAMUEL C. MOON, Morrisville, Pa mention the Florists' Exchange when writing.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS

ROCHESTER, N. Y. mention the Florists' Exchange when writing.

Eisele's Privet NONE BETTER

50,000 3-year, cut back, heavy, 2 1/2 to 3 1/2 feet at \$25.00 per 1000. 50,000 2-years, cut back, heavy, 2 to 2 1/2 feet at \$18.00 per 1000. 25,000 Golden Elder, 3-year plants at \$60.00 per 1000. 30,000 Euconymus, strong branched, 12 to 15 ins. high, \$60.00 per 1000. 25,000 Box-Edging, 3 to 4 ins. at \$30.00 per 1000. Achillea, the pearl, \$5.00 per 100. Aquilegia, \$5.00 per 100. Achillea Rose, \$4.00 per 100. Santolina, large, \$8.00 per 100. Boltonia Aeteroidea, \$8.00 per 100. Clematis, white, strong, \$6.00 per 100. Coreopsis, Lancelots, \$1.00 per 100. Dianthus Barbatus, \$5.00 per 100. Helianthus, Maximiliana, \$4.00 per 100. Delphinium Formosum, \$3.00 per 100. Golden Glow, \$3.00 per 100. Lychnis Chalcedonica, \$5.00 per 100. Monarda Rosea, \$6.00 per 100. Anthemis Tinctoria, \$5.00 per 100. Stokesia Cyanea, \$5.00 per 100. Pyrethrum Roseum, \$5.00 per 100. Veronica Longifolia, \$8.00 per 100. Digitalis Gloxiniflora, \$6.00 per 100. Agrostemma Coronaria, \$5.00 per 100. CASH WITH ORDER.

W. G. EISELE, CEDAR AVE. West End, N. J. mention the Florists' Exchange when writing.

WHAT DO YOU WANT?

2000 Hydrangea Paniculata Grandiflora, 2 ft. 8c., 1 ft. 5c. 2000 Hydrangea Otakua, for 4 in., 6c.; 3 in., 4c. 2000 Spiraea Anthony Waterer, 2 years, strong, bushy, 8c.; medium, 4c. 1000 Clematis Paniculata, 3 years, heavy, 10c. Clematis Jackmanni, 2 years old, very fine, 20c.; medium, 15c. 1000 Ampelopsis Veitchii, 2 years, field grown, 8c.; 4000 pot-grown tops, 3 to 4 ft., 4c. 5000 Stokesia Cyanea, field-grown, \$3.00 per 100. 5000 best shrubs and vines, dahlias, etc. Send for list.

BENJ. CONNELL West Grove, Pa. mention the Florists' Exchange when writing.

700,000 CAL. PRIVET

	Per 100	Per 1000
3 years, 2 1/2 to 3 ft., extra heavy	\$3.25	\$28.00
3 years, 2 to 2 1/2 ft., well branched	2.50	23.00
3 years, 18 to 24 in., well branched	2.00	15.00
3 years, 12 to 18 in., 4 to 8 branches	1.50	10.00
2 years, 3 1/2 to 4 ft., very heavy	3.00	25.00
2 years, 2 1/2 to 3 ft., well branched	2.25	18.00
2 years, 2 to 2 1/2 ft., well branched	2.00	15.00
2 years, 2 to 2 1/2 ft., 3 to 8 branches	1.50	10.00
2 years, 18 to 24 in., 5 to 8 branches	1.50	10.00
1 year, 10 to 14 in., 1 to 2 branches	1.25	7.00
Cutting, strong	1.00	5.00
Tree form, 3 years, heads 4 to 6 feet	25c.	each.

All the above plants have been transplanted and cut back except one year, which makes them a clean, good stock. Parties wanting 5000 or over will write and get better rates.

J. H. O'HAGAN River View Nurseries, Little Silver, N. J. mention the Florists' Exchange when writing.

Cannas, Dahlias, Strawberries, Tobacco Dust, Etc.

2000 Florence Vaughan, \$7.00 per 1000, \$1.00 per 100. Choice Mixed Dahlias, \$2.00 per 100. These are names that have gotten lost, Ohan and Park Jewell, \$1.00 per 100. 150 varieties Strawberries, including Mark Hanna, Beidler, Thompson's No. 2, 3 and 4. All the very choicest. Send for catalogue. 1000 Golden Glow, \$2.00 per 100, 100,000 Tagged Robin or Corn Flower, Coreopsis Grandiflora, \$3 per 100. Fine Tobacco Dust, \$1 per 100. MARK T. THOMPSON, Rio Vista, Va. mention the Florists' Exchange when writing.

F. & F. NURSERIES

Wholesale Growers TREES AND PLANTS in full assortment Trade Catalogue Free mention the Florists' Exchange when writing.

August Rölker & Sons, 31 BARCLAY STREET, New York

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornaments Nursery and Fruit Stock. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Deliveries. mention the Florists' Exchange when writing.

CALIFORNIA PRIVET!

Very fine stock of above at extremely low prices. Trees, Shrubs, Vines, etc., in assortment. SEND FOR WHOLESALE LIST. SHREWSBURY NURSERIES, Eatontown, N. J. mention the Florists' Exchange when writing.

AMERICAN TREE SEEDS AND PLANTS	Our Descriptive Catalogue of American Seeds and Plants ready for mailing. Ask for it. OTTO KATZENSTEIN & CO. Tree Seeds and Plants Specialists, ATLANTA, GA.
--------------------------------	--

mention the Florists' Exchange when writing.

CALIFORNIA PRIVET

I still have a good stock of fine plants which must be moved this Spring and have decided to offer the following low prices— 13 to 18 in., 2 years, \$5.00 per 1000; 18 to 24 in., 2 years, \$7.50 per 1000; 2 to 3 ft., strong, 2 years, \$12.50 per 100; 3 to 3 1/2 ft., strong, 2 years, \$18.00 per 1000. Packing Free.

RED BANK NURSERIES, JAMES McCOLGAN, Red Bank, N. J. Proprietor mention the Florists' Exchange when writing.

Privet Will Burn

BUT I don't want to be the one to burn it. I still have a surplus in all sizes in 2 and 3 year stock. If you will send me your list you will not need to get prices elsewhere. I grow PRIVET to SELL.

C. A. BENNETT, ROBBINSVILLE, N. J. mention the Florists' Exchange when writing.

PIN OAKS SPECIAL LOW OFFER

Will move, this spring, a block of fine stocky trees; twice transplanted. In good roots, stems, caliper and tops they will please critical buyers. Low rates for March and April orders. Sizes 6 to 7, 7 to 8, 8 to 9, 9 to 10, and 10 to 12 feet.

ASK OUR PRICE AND SAVE MONEY ANDORRANURSERIES, Wm. Warner Harper, Prop. CHESTNUT HILL, PA. mention the Florists' Exchange when writing.

CHOICE CALIFORNIA PRIVET

3 years old, 2 to 2 1/2, heavy, \$2.00 per 100, \$18.00 per 1000; 1 1/2 to 2, well branched, \$1.50 per 100, \$13.00 per 1000; 1 to 1 1/2, well branched, \$1.00 per 100, \$8.00 per 1000. Lots of 3000 and up, 10 per cent reduction. Cash with order; packing free; prompt shipment. ATLANTIC COAST NURSERIES, Office 606 4th Ave., Asbury Park, N.J. mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED. THE WM. H. MOON CO., Morrisville, Pa.

FOR SPRING

We offer a general assortment of NURSERY STOCK, including a fine assortment of Apple, Pear, Cherry, Plum and Peach in all grades. Shade and Ornamental Trees, Shrubs and Roses. CALIFORNIA PRIVET, 1 & 2 yr Smock Peach Pitts

Send List for Prices. Franklin Davis Nursery Co. Baltimore & Paca Sts., BALTIMORE, MD. mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

P. W. Kirkpatrick, McKinney, Tex., president; C. L. Sauer, Des Moines, Ia., vice-president; George C. Sauer, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

Lonicera Tatarica Grandiflora.

But few shrubs are better known in collections in this country than the Tartarian honeysuckle, *Lonicera tatarica*. It is to be found among old shrubs planted thirty years ago, and, to-day, it is still called for when planting lists are being made up. It is not that this bush bears large and showy flowers, for it does not; but they are very pretty, and they come in early Spring, and are unlike the flowers of any other shrub blooming at that time. The flowers of the common Tartarian honeysuckle are light pink in color. Those of the one before us, the variety grandiflora, are also pink, but they are of double the size of those of the common one, and being arranged nicely along the length of the shoots, as is the case with all of the species, it is a bush admired by everyone. As said heretofore, it is still called for on planting lists, because of its dissimilarity to other shrubs in habit of growth and style of flowers.

Spread of San Jose Scale.

In a recent issue of *The Florists' Exchange*, Alexander MacLellan suggests that the spread of San Jose scale is done by bees, the scale attaching itself to the legs of the insects when they are visiting the flowers of fruit trees. As the young of the scale are not hatched until some time after the trees are out of flower, they could not be carried from tree to tree at that time, but, later, when the trees are in fruit and the fruit tempts the bees, it may be that some scale insects would be carried about in that way. In the vicinity of cities, such as Philadelphia and New York, fruit trees are daily visited by English sparrows, and this bird more than any other is the cause of the spread of the scale. A cat may occasionally climb a tree, and a robin or some other bird will visit it at times, but the sparrow is daily hopping from branch to branch and from tree to tree, spreading the scale.

Situation for Trees Not Wholly Hardy.

Those in the Northern States who desire to experiment with trees from a warmer climate would have the best chance of success were they to plant them in not over deep soil and on high ground, where the wood would have a chance to ripen up thoroughly before Winter set in. This is already followed by many in the case of fruit trees. It is known that peaches grow very late in low ground, and not being over hardy it is an undesirable thing to have occur. These trees are, therefore, not set out in deep ground, where it is known they will have severe weather to encounter in Winter.

one has done. And it was a cold one, freezing, and freezing hard every day almost. But with all the cold there was a deal of snow. The ground was well covered with it, and it was not in one or two great storms, but in over twenty falls. This made the air moist and kept the ground covered. Practically, there are no losses among the trees. Small evergreens were snow-covered, and the larger ones were preserved by the moist air. Even yews, which are often browned badly on their southern sides, are in good condition this year.

Last Autumn one of our neighboring planters set out several hundred American Arbor vitae, bushy, three-foot specimens. The rows ran east to west. The block is in very good condition, excepting the outside row on the north, which is badly hurt, as it caught the sweep of the wind. It shows what protection would have done for them had it been given. As it is, they were sacrificed to save the others.

A few rhododendron leaves are scorched here and there, but not many. And this brings me to say, is there one among all the rhododendrons with such hardy, grand foliage as *R. Everestianum*? To me, it seems one of the very best for foliage.

Get Seeds Sown.

At this time of the year nurserymen are at their wits' ends to know which thing to do first. Planning in Winter is a help, but, plan as one may, all that should be done, and in rotation, it is impossible to do. The seasons are not always the same, and when one comes rushing along, as this Spring has, right on the heels of Winter, it is hard to follow the best of planning. This all leads me to the subject of sowing tree seeds. Nearly all firms have some to sow, and nothing so conduces to success as getting them into the ground early. As an example, look under any maple tree that had seeds on it last Fall, and the little seedlings will be found already making their leaves. What acts against the success of the seeds growing when sown late is that the heat of the season comes on them before they have started their growth, and the moisture, too, has been lost. The present time, early April, is an ideal period to sow. In fact, it could have been done still earlier to advantage this season, the ground permitting it. Those nurserymen are wise who prepare their beds in the Fall, as so many do. They lay out the ground, smooth it off roughly, leaving nothing to be done in Spring but a final smoothing before the seeds are ready. Then in go the seeds the very first days the soil can be worked into proper condition.

Evergreen seeds are greatly helped by early sowing. The little seedlings will do far better in Summer if well advanced in Spring, as they will be if sown early. And not nearly as much damping off occurs in April as in May.

Transplanting Hollies.

A great deal of the trouble met with in transplanting hollies, evergreen magnolias and many other broad-leaved evergreens, comes from not cutting off the foliage. Many of these trees are almost without roots, and when transplanted with leaves left on them there is no way to sustain the foliage and tree, and the latter dies. When the leaves are taken off it places the tree in the position of a deciduous subject, and then, well pruned, as a deciduous tree should be, its chances of living are very good.

Many a specimen of the English holly is sold to parties for Christmas. If these trees are kept in some cool, damp place for the Winter, the leaves being first cut off, and the pruning then done before planting in Spring, their chances of living will be very good.

It is customary for southern nurserymen to cut off the leaves of *Magnolia grandiflora* before delivering them to their customers, and it has been suggested that trees of it in the North would winter better were the leaves cut off on the approach of cold weather.

Many have tried the transplanting of hollies direct from the woods, and, usually, have failed. But this need not be. If dug and kept damp from the time they are taken out until replanted, well-pruned, and the leaves cut off, success will follow, as many an experiment has proved. The holly will break freely from the old wood.

JOSEPH MEEHAN.

A Handy Device.

Since the adoption of wire stakes for roses, growers have felt the great necessity of a better method of fastening the stake to the small guy wire that is run overhead for the purpose of steadying the stakes, and holding them in an upright position.

Through the courtesy of Mr. Blake, 26 Boerum place, Brooklyn, we illustrate herewith a patented device called Blake's Patent Lever Clip, which will prove a great boon to all growers. The device is so constructed that it can be placed in position on the stake and the guy wire in an instant, and becomes at once immovable. All who have spent time in wiring, or tying the rose-stakes to the guy wire, will at once see the great advantage this clip will afford over the old method of tying. The cost of the clip is very small in comparison to its utility, and it only needs to become known to be used by every grower.



LONICERA TATARICA GRANDIFLORA

The bush illustrated is of rather less upright growth than usual, but it is none the less beautiful because of this. To bring about the shape seen, but little pruning must be done, for when cut back closely it forms strong shoots, of an upright growth, with but few of the smaller twigs which give grace to such a bush.

In addition to the grace of bush and the attraction of its flowers, berries succeed the blossoms, which, in some cases, are valued more than the flowers are. In nearly all varieties the berries are red in color, which is the case with those of grandiflora. As the berries are not ripe and of their brightest color until Summer comes, the attraction of the bush at that season is more noticeable than at its period of flowering. And in many nursery catalogues it is the berry-bearing quality that is dwelt on rather than that of flowering when mention is made of these *Loniceras*. This is the case with *Morrowi*, *bella candida*, *Ruprechtiana* and others, as well as those before named. In *Standishii* the berries, red in color, form and ripen in a very short time, embellishing the bush as early as the close of May. *Standishii*, and another, *fragrantissima*, are valued for their very early sweet-scented flowers, which open in the first days of Spring; and in addition to this *fragrantissima* is very near a true evergreen.

JOSEPH MEEHAN.

A correspondent wrote me recently from Minnesota of his efforts in testing the sweet gum there. In the first place, he should get his supply from trees growing as far North as he possibly can, and he should then plant them on dryish ground, where the growth will be short, stocky and well ripened by the time Winter comes. All trees from warmer countries demand this. The evergreen magnolia from the South will live in the vicinity of Philadelphia in such a situation, but when in deep soil it grows so late that its wood is too immature to stand the cold of Winter.

High ground and not over rich is the place for every tree regarding which doubt exists as to its hardiness. Give them such a position, and then mulch the ground well on the approach of Winter, and if they do not live through it nothing more could have been done for them.

Effects of the Winter.

Now that buds and blossoms are on our trees, the time is here when we can say what harm, if any, the Winter has done us among trees and shrubs. So far as concerns Eastern Pennsylvania the harm is almost imperceptible. I have no recollection of a recent Winter which left so little evidence of its passing as this

Dreer's Select List of HARDY PERENNIALS

We offer here only the most Showy and Decorative Sorts, including varieties suited for CUT FLOWER purposes. These varieties are marked with an asterisk (*)

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List.

This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

Table listing various plants such as Acanthus Mollis, Achillea Filipendulina, Adonis Pyrenaica, Agrostemma Coronaria, Ajuga Reptans, Alyssum Saxatile, Anemone Japonica, Aquilegia Blandia, Chrysantha, Coreopsis, Dianthus, Digitalis, Erigeron, Geranium, and others, with columns for price per doz and per 100.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

ROSE PLANTS 6000 KILLARNEY

From 2½-inch pots, \$12.00 per 100.

Also a fine lot of BRIDESMAID, BRIDE and AMERICAN BEAUTY From 2½ and 3½ inch pots. Write for Prices.

JOHN YOUNG, 51 W. 28th St. New York City

Telephone 4463 Madison Square

Mention the Florists' Exchange when writing.

New Rose Wellesley

Own Root Plants, \$25.00 per 100.

Waban Rose Conservatories, NATICK MASS.

John N. May, Summit, N. J. Mention the Florists' Exchange when writing.

ROSES

From 2½ in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000. Clothilde Soupert, best bedding and pot rose. Pink Maman Cochet, fine for Summer blooming. White Maman Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio

ROBT. CRAIG & SON

JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

PANSIES

Extra fine transplanted, from cold frame, in bud and bloom, \$1.50 per 100; \$12.00 per 1000.

COLEUS

Rooted cuttings, Golden Bedder, Crimson Verschaffeltii, 60c. per 100; \$6.00 per 1000.

Cash with order.

PETER BROWN, Lancaster, Pa.

Mention the Florists' Exchange when writing.

ROSES

CARNATIONS and CHRYSANTHEMUMS

Write For Prices

JOHN N. MAY, Summit, N. J.

Mention the Florists' Exchange when writing.

READY NOW

Gen. MacArthur

The most prolific flowering Red Rose in the market to-day. Grows fluely in same temperature as Bride or Bridesmaid, and will produce fully as many first-class flowers as either.

2½ in. pot plants, own roots, \$10.00 per 100; \$80.00 per 1000.

Strong grafted stock, from 3 in. pots, \$12.00 per 100.

THE STORRS & HARRISON CO., Painesville, O.

Mention the Florists' Exchange when writing.

60,000 GRAFTED ROSES For Forcing

Extra fine healthy plants, free from mildew.

LIBERTY, Rose pots, \$15.00 per 100; 3½ inch pots, \$18.00 per 100

BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN

Rose pots, \$10.00 per 100; \$95.00 per 1000

3½ in. pots, \$15.00 per 100; \$145.00 per 1000

500,000 VERBENAS 60 Varieties

Perfectly healthy, in bud and bloom

2½ in. pots, our selection, \$2.50 per 100; \$20.00 per 1000

2½ in. pots, purchaser's selection, \$3.00 per 100; \$25.00 per 1000

COLEUS

VERSCHAFFELTII, GOLDEN BEDDER, FIREBRAND

Rooted Cuttings, 75c. per 100; \$6.00 per 1000

SEND FOR PRICE LIST

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Mention the Florists' Exchange when writing.

ROSES

2-year old, 4 in. pots, \$8.00 per 100. American Beauty, 4 in. pots, \$10.00 per 100. Roses, 2½ in. pots, \$2.25 per 100, \$20.00 per 1000. Carnation Richmond Gsm, 2½ in., \$10.00 per 100. Asparagus Pinmosus, 2½ in., \$2.50 per 100

4 in. 10.00 "

" Sprenger, 2½ in. 2.50 "

Alternantheras, \$2.00 per 100; \$18.00 per 1000.

Hardy Phlox, 3 in., \$4.00 per 100; 2 in., \$2.50 per 100.

Bellotropes, Salvia, Periwinkle,

English and German Ivy, Fuchsias, Ageratum,

Flowering Begonias, Sweet Alyssum,

Shasta Daisies, \$2.50 per 100; Violets, Swanley

White, Marie Louise, Princess of Wales, 2½ in.,

\$2.50 per 100. White Moon Vines, 2½ in. pots,

\$3.00 per 100; Lobelia Crystal Palace Compact,

stocky plants, 2½ in., \$2.50 per 100. Send for list.

THE NATIONAL PLANT CO., Dayton, Ohio

Mention the Florists' Exchange when writing.

ROSES

BRIDE, BRIDESMAID, IVORY, GOLDEN GATE, MME. ABEL CHATENAY

\$3.00 per 100; \$25.00 per 1000

GEORGE REINBERG

51 WABASH AVE., CHICAGO, ILL.

Mention the Florists' Exchange when writing.

ROSES

Marie Van Houtte Maman Cochet White Cochet Yellow Cochet Hermosa Marechal Niel Meteor Climbing Meteor Burbank Clothilde Soupert Etolles de Lyon Ivory Golden Gate Bride Bridesmaid Duchesse de Brabant Bon Silene Agrippina Pillar of Gold

Solfaterre Gruss an Teplitz Marie Guillot F. Kruger Perle des Jardins Mme. Welch Safrano Lamarque White La France Striped La France Climbing Wootton Duchess of Albany Helen Gould Papa Gontier Chatenay Folkestone Media Antoine Rivroire Malmaison Clara Watson

From 2½ in. pots, clean, healthy stock; packed light and free; satisfaction guaranteed. Terms Cash, please.

Do not send personal checks.

Price \$2.50 per 100; \$20.00 per 1000.

R. H. MURPHEY & SON, Urbana, Ohio

Mention the Florists' Exchange when writing.

ROSES

From 2½ inch pots

Especially fine lot of Hybrid Perpetuals, Climbers and Ramblers.

Send for price list. Use printed stationery. We send it only to the trade.

JACKSON & PERKINS CO. NEWARK, N. J. MENTION THE FLORISTS' EXCHANGE WHEN WRITING.

KAISERIN

ROOTED CUTTINGS

\$15.00 per 1000

S. S. PENNOCK

THE WHOLESALE FLORIST OF PHILADELPHIA

Mention the Florists' Exchange when writing.

50,000 ROSES

Kaiserin, La France, Perle, Hermosa, Clothilde Soupert, Cochet (pink and white), Ivory, 3 in. pots, \$4.50 per 100; \$40.00 per 1000.

5,000 MOON VINES

3-in. pots, \$6.00 per 100; 2½-in., \$3.50 per 100.

10,000 COLEUS

\$2.50 per 100; \$20.00 per 1000

SIX BEST BEDDING VARIETIES

J. D. BRENNEMAN Box 24 HARRISBURG, PA. MENTION THE FLORISTS' EXCHANGE WHEN WRITING.

Grafted Roses

Bridesmaid, Bride, Bon Silene and Safrano. \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbold, \$2.50 per 100. STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses NEWTONVILLE MASS. MENTION THE FLORISTS' EXCHANGE WHEN WRITING.

CARNATIONS

Chrysanthemums and Violets

Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Kennett Square, Pa.
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SPECIAL PRICES

QUEEN LOUISE.....per 1000, \$7.50
FLORIANA....." 7.50
MRS. E. A. NELSON....." 10.00
HARRY FENN....." 10.00

50,000 Queen Louise ready now, the others the latter part of April and early in May.

ALBERT M. HERR, Lancaster, Pa.
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Carnations

F. DORNER & SONS CO.
LA FAYETTE, IND.

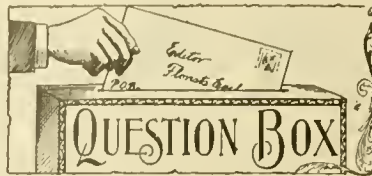
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RED SPORT CARNATION

The great "bread and butter" holly-berry pink. Early and continuous, sure crop for Christmas, never splits, strong healthy grower. 2 1/2 to 3 in. flower on a long wiry stem that well supports the bloom; an easy doer and an all around money maker. Nough said. Price, immediate delivery, 12 for \$1.60; 25 for \$2.50; 50 for \$4.00, all postpaid. \$6.00 per 100; \$60.00 per 1000.

Queen Louise The standard white, strong healthy, well-rooted stock \$1.25 per 100, postpaid; \$10.00 per 1000.
We Guarantee Satisfaction.

A. B. DAVIS & SON, Carnation Specialists, Purcellville, Va.
Mention the Florists' Exchange when writing.



Heating.

(144) I wrote you about heating greenhouses a week ago. The house in which I have a three-inch flow and three two-inch returns on each side, heats the distant end of the house all right, but the end where the return enters is about 5 degrees colder. The house is 17x100 feet, three-foot walls. Would it do to run a three-inch flow to house, on entering house, divide three-inch into two two-inch pipes, running under purlins one-half way down roof to far end, and returning three two-inch pipes on each side? I name two-inch pipe as I have plenty of it. I desire a temperature of 40 degrees in zero weather. Wouldn't this give me a better temperature at the near end of greenhouse, instead of being 5 degrees colder, or would I lose too much heat by using two-inch pipe? W. C. P.

—This difficulty is not unusual in heating jobs of this kind. It can be overcome in your case by increasing the returns on the boiler end of the house. You have at present three two-inch returns on each side. We would suggest that at a point 50 feet distant from the boiler end you place an extra return on each side, making four returns on each side for the 50-foot run nearest the boiler. This will increase the temperature five degrees and your house will have more uniform heat. These extra pipes can be run in the form of a separate coil from the overhead main at a 50-foot point distant; or the present return could be enlarged to four pipes by the use of a side branch in the shape of a Y piece. I would not advise dividing the three-inch overhead main into two-inch. Make your connections from the present three-inch main. U. G. SCOLLAY.

I have a small tubular boiler, 6 feet in height, grate 2 feet in diameter. I have two small houses I wish to heat with steam. They are 17 1/2 by 35 feet each, even span, 9 feet to ridge pole, 5 feet to eave of house, 18 inches of glass on sides. The temperature never falls below 16 degrees. I want to keep a night temperature of 60 degrees in both houses; all pipes under benches, if possible. I would like to know if this boiler will do at all for heating one or both houses. If so, I would like some information on piping, size of pipe, placing of boiler, height of smokestack, etc. SUBSCRIBER.

—The capacity of the boiler named is about good for 1,800 feet of one-inch pipe. It is, therefore, more than large enough to do the work mentioned. As it is desired to run all the pipes under the benches, I would advise running a 1 1/2-inch main to the far end of each house, dropping toward the far end, and placing a coil of one-inch pipe on each side of the houses, said coil to consist of four one-inch pipes. Have these one-inch coils drop from far end to boiler. It will be well to place a one-inch valve on each of the one-inch pipes, both on the far end and the end nearest the boiler. This will allow shutting off as many pipes in each coil as the weather demands. The main return entering the boiler can be 1 1/2-inch pipe. Place the boiler in the pit, so that the top of the boiler will be about one foot below the return end of the one-inch coils. The height of smoke pipe will be governed by surrounding conditions. Two feet above ridge of houses will do, if nothing prevents good draft. U. G. SCOLLAY.

Greenhouse Building.

(145) I am contemplating the erection of some greenhouses very shortly, and would like to ask you a few questions regarding same. 1. Is there such a thing as an opaque or yellow-colored glass that would obviate whitewashing in Florida, and what would it cost per square, say 40,000 feet? Would it be an advantage, as 80 to 90 degree weather is the rule and not the excep-

tion, even in Winter? 2. Would you set the system of houses broadsides north and south, or east and west? 3. Would low pressure steam heat be preferable to hot water heating in this climate of sudden low temperature down to 20 degrees, lasting usually three to four days? 4. Could I save the expense of an irrigating system of pipes by converting by means of a shut-off valve the steam-heating pipes into water pipes, using both alternately, as the case required? C. F. S.

—In the matter of using opaque or yellow-colored glass to shade the house, and obviate the use of whitewash, I would say that in cases of this kind ground glass has been used. It is usual, in palm houses, to use ground glass, and to sometimes even whitewash or paint it. There is a glass, ribbed on one side and ground on the other, which has been used to some advantage. This does not even require painting or whitewashing. Using yellow-colored glass, we would not advise. Prices for this glass can be obtained from the various advertisers in The Florists' Exchange.

The correspondent does not state for what purposes he intends to use these houses, so that our reply must be somewhat guarded. Regarding the aspect of the houses, they may run either north or south, even span, or east and west, three-quarter. Hot water heat would be preferable, in my opinion. The system of piping may be arranged that some of the pipes in the various heating coils can be connected up, and arranged with valves to the water supply, and these pipes used in connection with bibb cocks to supply the house for watering purposes. In doing this, however, great care must be used in the valve arrangement, as trouble might result. U. G. SCOLLAY.

Soil for Mignonette.

(146) How many years after having been used in greenhouse for mignonette must soil be left in grass before fit to use again in houses? Given a good soil from newly plowed sod, could all fertilizing of mignonette be done by a top dressing or by liquid feeding for A1 cut flowers? S. E. B.

—Soil that has been used in the greenhouses and put back on the land should remain there three years before being used in the greenhouse again. It would be better to mix the manure with the soil than to depend altogether upon a top dressing. If one can have a constant supply of liquid manure, and knows how and when to use it, there is no better method of feeding any kind of plant; and mignonette could certainly be grown to perfection in that way.

American Beauty in Open Ground.

(147) Will it be suitable to plant out American Beauty roses in the open ground, and how should I fix the soil? I have also plants in hotbed from seed; they come up but they rot away at the root. Can you give me a remedy for this? L. K. N.

—For planting roses outdoors, the soil should be worked deep and have a heavy dressing of manure mixed with it. If the land is at all moist, it should be properly drained. For this purpose, American Beauty is no better than many of the other hybrid varieties; neither will it produce as good flowers as when grown indoors. The reason the seedling plants are rotting is no doubt because they have been left in the seed bed too long, and have become too crowded. To avoid this, transplant them into other soil as soon as they are large enough to handle; also see that they get ventilation whenever possible.

Decorative Asparagus.

(148) Can Asparagus plumosus and A. Sprengeri be field grown for seed or cutting in Southern Virginia; and would they stand the Winters? How soon will strong seedling plants bear seed; or how soon would they be large enough to commence cutting? What is a string, as commercially sold, and how prepared for sale? B.

—Whether or not the varieties of asparagus mentioned can be grown profitably for seed or cutting in the South can only be answered by actual

H. WEBER & SONS

announce the completion of arrangements whereby they will, beginning in January, 1908, disseminate jointly with

THE E. G. HILL CO.

THEIR TWO GRAND NEW CARNATIONS

MY MARYLAND AND JESSICA

MY MARYLAND is already well and favorably known, having been exhibited freely at the various flower shows and florist club meetings the past Fall and Winter, and in every case elicited the highest praise and most favorable comment. We pick this variety to quickly and easily displace all other whites for first honors, not alone in exhibition, but in commercial points as well. We claim for it a robustness of constitution quite unequalled in any other variety and an ease of culture that will delight the heart of the grower. The great vigor of both parents (Norway x Lawson) seems united and improved upon in this variety.

In JESSICA we have in the red and white variegated class, what My Maryland will prove among white. It is descended through several generations of variegated seedlings of Helen Keller and Bradt extraction on the one side and Lawson on the other. A strong, thrifty growing variegated seedling bearing the seed. It is a trifle heavier in growth than My Maryland and just Lawson height. Aside from these differences and the color, the description of My Maryland applies to Jessica. Under favorable conditions four-inch blooms are not uncommon. We pick Jessica to win over any other variegated variety.

Both of the above are free propagators. We are thoroughly familiar with them and know what they will do. We will be in a position to deliver stock early and on time, and assure the trade that no disappointments will result on that score.

We have already booked many orders. It pays to be early. Orders booked are subject to cancellation by the buyer if unsatisfied with either variety, up to the time the cuttings are received.

Price: \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000

West of Pennsylvania address, THE E. G. HILL CO., Richmond, Ind.

East of Ohio address, H. WEBER & SONS, Oakland, Md.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS	\$12.00	\$100.00	LAWSON	\$2.00	\$15.00
CHICAGO WHITE	12.00	100.00	NELSON	1.50	12.50
RICHMOND DEB	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIGINBOTHAM	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
BOSTON MARKET	2.50	20.00	QUEEN LOUISE	1.00	9.00
ADONIS	2.50	20.00	PERU	1.00	9.00
ESTELLE	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA,
UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	PERLE VON GODES-		
ROSALIND ORR			BERG	\$5.00	\$40.00
ENGLISH	25.00	200.00	BRIDESMAID	3.00	25.00
LA DETROIT	6.00	50.00	BRIDE	3.00	25.00
AMERICAN BEAUTY	6.00	50.00	IVORY	3.00	25.00
LIBERTY	5.00	45.00	PERLE	3.00	25.00

AMERICAN BEAUTY, bench plants, \$6.00 per 100; \$50.00 per 1000.

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central

PETER REINBERG, 51 Wabash Av., Chicago

Mention the Florists' Exchange when writing.

ROBT. C. PYE Carnations NYACK, N. Y.

The Lewis Conservatories MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist

CARNATIONS

Rooted Cuttings, strong healthy stock, ready now.

G. F. NEIPP, AQUADUCT, L. I.

Mention the Florists' Exchange when writing.

CARNATIONS GOOD STRONG CUTTINGS

Table with 2 columns: Variety, Price. Includes Hill, Lawson, White Lawson, Flamingo, Prosperity, Manley, Roosevelt, Apollo.

CHAS. T. DARLING, Stony Brook, N. Y.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

Table with 2 columns: Variety, Price. Includes Queen, Queen Louise, Enchantress, Lawson, Fair Maid.

S. J. REUTER, Westerly, R. I.

SURPLUS STOCK CARNATIONS

From Soil

Table with 2 columns: Variety, Price. Includes Estelle, Enchantress, White Lawson, Queen Louise, Lawson, Gomez, Ethel Croker, Norway, Roosevelt, Dabheim, Flamingo, Glacier.

RAWSON, The Florist, Elmira, N.Y.

ENCHANTRESS

The most popular and best paying of all CARNATIONS. Large stock of rooted cuttings now ready.

\$3.00 per 100; \$25.00 per 1000.

White Lawson, \$6.00 \$50.00

The Queen, 2.50 20.00

Cardinal, from 2 in. pots, 12.00

The Queen, 2 in. pots, 3.00 25.00

CHRYSANTHEMUMS

DR. ENGUEHARD, Rooted Cuttings, \$4.00 per 100.

LARCHMONT NURSERIES

LARCHMONT, N. Y.

Mention the Florists' Exchange when writing.

experiment. We believe, however, that the thing could be done with the aid of a mulch of litter to cover the plants during the coldest weather.

Worms Eating Ferns.

(149) I am troubled with small worms eating the tops off fern leaves when they first come up.

-This looks more like the work of snails than of any worms that we are acquainted with.

Leaf Spot on Roses.

(150) I send you some rose shoots affected with some kind of leaf disease.

-I have your letter of April 12 inclosing diseased rose leaves.

The trouble is due to a common leaf spot caused by the fungus Cercospora rosicola.

Carnation Flowers Not Opening.

(151) I send you some buds of carnations Admiral Cervera and Mrs. Frances Joost.

-The arrested development in the petals of the carnations comes from some local cause or other which it would be impossible for us to specify unless we knew how the plants had been treated lately.

English Ivy.

(152) What is the botanical name of English ivy? Is there any of it in New York?

-The botanical name of the plant often called here English ivy is Hedera helix.

CHICAGO CARNATION CO. JOLIET, ILL.

Rooted Carnation Cuttings

Table with 2 columns: Variety, Price. Includes Flamingo, Albattross, Enchantress, Queen, Boston Market, Queen Louise, Lawson, J. H. Manley, Challenger.

Write for prices on large lots. 5 per cent. discount for cash with order.

JAMES D. COCKCROFT, Northport, Long Island, N.Y.

Mention the Florists' Exchange when writing.

BIG BARGAIN IN ROOTED CARNATION CUTTINGS TO MAKE ROOM.

Fair Maid, Alpine Glow, Henry Fenn, Challenger, Frances Joost, Queen Louise, Prosperity, \$10.00 per 1000.

HANSEN & LUNSTED, PASSAIC, N. J.

J. D. THOMPSON CARNATION CO. JOLIET, ILL.

Carnations Our Specialty

CHRYSANTHEMUMS

ROOTED CUTTINGS

Lord Hopetoun, Ben Wells, Lella Filkins, E. Bonnetford, Ocell Cutts, Vivian-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberley, Nellie Pockett, Percy Plumridge, A. J. Balfour, M. Lamond, Thirle, White Bonaffon, Mrs. Chamberlain, C. H. Diederichs, Dr. Enguehard, Obeloni, Ida Barwood, S. T. Wright, Chevrant \$3.00 per 100.

Bonaffon, Mrs. Jerome Jones, Yellow Jones, Col. Appleton, Mrs. Robinson, Lady Harriet-Halliday, F. S. Yalla, Mrs. Coombes, Chinas, Mrs. T. M. Pockett, Marie Liger, M. Donliet, Paul Sahut, R. H. Pearson, Dalskov, Ivory, Bocasse, M. Richard, son, Tancred Bastet, Fee Du Champsaur, Mrs. Perrin, Mrs. Weeks, Col. Powell, Mayflower, C. J. Salter, White Maud Dean, Golden Wedding, Marian Newall, Moutier, \$2.00 per 100.

CARNATIONS, ROOTED CUTTINGS.

Table with 2 columns: Variety, Price. Includes The Belle, Flamingo, Nelson Fisher, Ferns, Pierson.

W. J. & M. S. VESEY, Fort Wayne, Ind.

CHRYSANTHEMUMS

ROOTED CUTTINGS

It is cheaper to buy rooted cuttings now than pot plants next month.

Table with 2 columns: Variety, Price. Includes Wm. Duckham, Black Hawk, Appleton, Oremo, Gizzler, Glory of Pacific, Lady Fitzwygram, Bonaffon, Maud Dean, Miss Alice Byron, Nellie Pockett, Mrs. Coombes, Mrs. H. Robinson, Mutual Friend, October Sunshine, Polly Rose, Timothy Eaton, White Bonaffon.

GRAFTED BRIDE AND BRIDESMAID ROSES

\$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR, SOUTHPORT, CT.

CARNATIONS

ROOTED CUTTINGS.

Table with 2 columns: Variety, Price. Includes White Lawson, Lady Bonntiful, Mrs. M. A. Patten, Nelson Fisher, Flamingo, Enchantress, Boston Market, Gen. Macco, Darning Glory, Mrs. G. M. Bradt, Melba, Queen Louise, White Cloud, Adonis, Alpine Glow, Chicago, Gold Nugget, Golden Beauty, Mrs. Theo. Roosevelt, Mrs. F. Joost, White Bradt.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as desired. Bride, Bridesmaid, Golden Gate, Carnot, Katerin, Testout, La France, Wootton, Whiteville, Albany, from 2 1/2 inch pots, \$12.00 per 100.

WOOD BROS., Fishkill, New York

The Beautiful Pink Carnation CANDACE

Dissemination 1906, \$2.00 per doz., \$12.00 per 100. \$100.00 per 1000. Early-commercial.

Indianapolis Flower and Plant Co. and John Hartje, Indianapolis Ind.

MODEL EXTENSION Carnation Supports

Wire Rose Stakes and Tying Wire

IGOE BROS., Manufacturers, Brooklyn, N. Y.

ROOTED Carnation Cuttings

Table with 2 columns: Variety, Price. Includes Enchantress, Fair Maid, Alpine Glow, Lawson, Nelson, Flamingo, Estelle, Lady Bonntiful, Vesper, Bride, Mackinn, Moonlight, Queen, Queen Louise, Boston Market, Judge Hinsdale, Mrs. Patten, Prosperity, Bartowarden.

MISCELLANEOUS

Can furnish Cuttings of all the Standard Varieties

THE LEO NIESSEN CO., 1217 Philadelphia Arch St.

CARNATIONS

ROOTED CUTTINGS

Table with 2 columns: Variety, Price. Includes Prosperity, Lawson, Miscos, Queen Louise, Gov. Wolcott, May Naylor, Joost, Eldorado, Bradt, Enchantress, Scott.

GRAFTED BRIDE AND BRIDESMAID ROSES

\$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR, SOUTHPORT, CT.

CARNATIONS

ROOTED CUTTINGS.

White Lawson (5000 ready now) \$7.00 \$50.00, Lady Bonntiful, Mrs. M. A. Patten, Nelson Fisher, Flamingo, Enchantress, Boston Market, Gen. Macco, Darning Glory, Mrs. G. M. Bradt, Melba, Queen Louise, White Cloud, Adonis, Alpine Glow, Chicago, Gold Nugget, Golden Beauty, Mrs. Theo. Roosevelt, Mrs. F. Joost, White Bradt.

FINE HEALTHY STOCK

OWN ROOT, FINE STOCK. Bride, Bridesmaid, Golden Gate, 2 1/2 in pots, \$4.00 per 100; \$36.00 per 1000. From 3 in. pots \$7.00 per 100; \$60.00 per 1000.

VERBENAS

Best Mammoths, rooted cuttings, \$1.00 \$3.00

CHRYSANTHEMUMS

Send for catalogue for varieties and prices.

MISCELLANEOUS

Ageratum, Cope's Pet, White Cap, P. Pauline, S. Gurney, L. Bonnet, Achyranthus, four sorts, Canas, dry roots, named varieties, Collins, best bedding and fancy sorts, Cypripis, double and single, Fuchsias, double and single, Feverfew, double white, Germau Ivy, Heliotrope, light and dark, Impatiens Sultan, Moon Vine, true white, Salvia, Splendens and Bodman, Salvia, new early flowering sorts, Vinca Variegata and Elegans, 4 in. pots, SMILAX, 2 1/2 in., ASPRAGUS SPRENGERI, 4 in. pots.

FOUNDED IN 1888



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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 545

News of the Week in Brief.

A Grand Rapids (Mich) florist has a white sport of Mme. Abel Chatenay rose.

George Cook, of Washington, D. C., is superintendent of the S. A. F. Trade Exhibit this year.

Lily flowers are being shipped from the Bermudas to the United States for Easter, as usual.

Fred Burki, of the Bakertown (Pa.) greenhouses, has some promising sports of Asparagus plumosus.

T. P. Langhans, president of the Pittsburg and Allegheny Florists' Club, lost his father by death last week.

On April 7 the widowed mother of Luther Burbank celebrated her 92d birthday at their home in Santa Rosa, Cal.

Carl Jurgens, Jr., son of the well-known bulb grower, of Newport, R. I., was married on Monday last to a Washington (D. C.) lady.

The suitability of Porto Rico as a locality for the growing of the Farquhar lily, is being investigated by R. & J. Farquhar & Co., of Boston.

P. C. Reynolds, a writer on horticultural subjects, and at one time secretary of the Western New York Horticultural Society, is dead at the age of 78 years.

Hail storms occurred the past week in Kansas, Kentucky and Ohio. Some greenhouse glass was broken, most of which was insured in the Florists' Hall Association.

The Illinois State Florists' Association has been incorporated. A report states that an appropriation by the State of \$15,000 (half the amount asked for) has been made for the purpose of this organization.

The A. H. Hews Company, flower pot manufacturers of Cambridge, Mass., have offered a silver cup, valued at \$25, as a prize to be competed for at the Boston show of the American Carnation Society next January.

The cool weather of the past week has been helpful to forward plants, and a drawback to those retarded. Still there is every indication of a plentiful supply of stock for Easter. Some azaleas in the East are reported passe.

The Boston Gardeners and Florists' Club discussed the subject of alleged degeneration of the rose and carnation at its last meeting. The majority of the members were of the opinion that improvement rather than deterioration is the order of the day.

The Eckford Testimonial.

Subscriptions acknowledged.

The Florists' Exchange..... \$10
Burpee, W. Atlee, & Co..... 10

New York's Plant Market.

It is gratifying to note that the recent remarks concerning a plant market for New York, appearing in our issue of April 8, are receiving consideration from the metropolitan daily press. The following are some of the comments thereon that have appeared:

For years the wholesale florists who supply the New York trade have urged the city to build and lease to dealers a public market, but without success. Now the hope of getting a municipal building is weakening, and The Florists' Exchange, a trade paper, has been investigating the flower and plant sections of Covent Garden Market, London, to show the practicability of establishing a similar institution here. Covent Garden Market is a proprietary exchange, and the flower and plant sections are very profitable to its owner, whose principal difficulty appears to be to furnish room enough to meet the demands for space in the buildings. The plant and flower trade in New York is an important and remunerative branch of commerce. Many of the dealers have acquired wealth in it, and the capital to build a great central market could be raised without difficulty. Properly conducted, such a market in New York would unquestionably prove profitable, and sooner or later it will be established. At present the plant growers meet their customers in the open air, or under a tent, and their facilities are entirely out of proportion to the volume of the business they do.—New York Sun.

Spring and Easter, the season of flowers, makes a certain editorial in The Florists' Exchange appeal as particularly timely. A London correspondent of that periodical had written an article on the workings of the Covent Garden flower market. The editor of the local paper queried "Why has New York no Covent Garden?" Why, indeed, when we want to buy Easter lilies and Spring flowers with which to remember our friends, may we not honor the flowers by our prettiest clothes, and make a real nice social occasion of it by going to market, seeing everybody we know, and choosing our blooms in comfort. I know just one smaller Western city in which that is done. In Cincinnati every woman who dresses her prettiest Saturday afternoon to do the matinees or Fourth street—their miniature Broadway—invariably visits the flower market before she takes her car to the hilltops. It is a quaint, beautiful brown building on Sixth street, occupying a block in length—a monument to one of the smoky city's many philanthropists. Every Saturday afternoon in the Winter is a notable reception to various blooms, but the Saturdays before Easter and Palm Sundays are veritable social crushes. Carriages crowd the block as if at society's smartest wedding, while pretty girls, women, and men in all classes of life make their way to honor the flowers. Such little sentimental customs are not bad, and even busy New York would have time for them if the conditions were suitable. One can scarcely picture a social occasion at Canal or West streets; still even that situation might do if the environment were made sufficiently attractive. New Yorkers have a way of going far to find what they like.

Now, if they would only all stop talking about who should give and who shouldn't, and all such tiresome details about money, but just seek some kind philanthropist here who wanted to give us a flower market.

The hopes of the city erecting such a building seem as remote as ever. This year again the florists present their wares under the tents of Canal street. Yet the flowers, are not they all and more of the decorative part of Easter? Surely they brighten the lives of everybody through the year. They cannot be sufficiently honored.—The Globe.

A New Publication.

THE COUNTRY CALENDAR.—This is another addition to the latter-day list of periodicals devoted to the subject of outdoor employment and enjoyment; life in the country in its many and varied phases, civic improvement and kindred matters that, happily, are at present largely engaging the attention of the American people. The scope of the journal is not at all conveyed by its title, which seems to us a most inept and meaningless one for the purpose intended. The Calendar is a handsomely illustrated work, its initial number covering a diversity of subjects from the favorite sport of ex-President Cleveland to Lobsters under Government Management, the Truth about Lightning Conductors, and Horace Greeley as a Farmer. Yachting also finds a place in its pages; and automobiles are not forgotten. The gardening end of the magazine is represented by an article on Growing Roses in the Garden, by M. H. Walsh; notes on the vegetable garden and orchard, pruning shrubs, and others. There is a wealth of excellent reading in the periodical, enhanced by the beautiful accompanying illustrations; in fact, pictorial effect rather than purely practical instruction seems to be the aim, pictures being often more convincing and informative than the written word. Covering such a multiplicity of subjects as does the magazine, it is just possible that full justice cannot be done to any one of them; yet the Country Calendar, in our opinion, augurs well to take a foremost place among the periodicals of its class. We wish it every success in its varied mission. It is published by The Review of Reviews Book Company, New York, at \$3 a year; 25c. a copy.

PAMPHLETS RECEIVED.

THE AMERICAN CARNATION SOCIETY.—The report of the proceedings of the fourteenth annual meeting of this society, held at Chicago, Ill., January 25 and 26, 1905, is being distributed by Secretary Herr. It contains the reports of the judges on exhibits, a stenographic account of the society's deliberations, a list of the carnations registered in 1904-05, and a list of the members of the organization. All the papers read at this meeting were valuable, the one on carnation diseases and the ensuing discussion being particularly interesting. The volume gives in itself full value for the yearly dues, which are \$2. A fine portrait of President Hartshorne forms a frontispiece.



Jonathan B. Morey.

Hon. Jonathan Barnhart Morey, an old and highly-respected citizen of Dansville, N. Y., died at his home on April 10, 1905, of consumption, after an illness lasting for a year. For many years he was a member of the large nursery firm of Sweet & Morey. In 1885 they dissolved partnership, Mr. Sweet continuing the business, and Mr. Morey forming a co-partnership with his son, J. B. Morey, Jr., the new firm being known as Morey & Son. Mr. Morey was 68 years of age. He served as Assemblyman from his home district with distinction, was a leading citizen of Dansville for many years, and active in the business and political life of the village. Besides his widow, he leaves one daughter, Mrs. Herbert Chase, of Huntsville, Ala., and two sons, J. B. Morey, Jr., and Sidney Morey.

Platt C. Reynolds.

Platt C. Reynolds died April 13, 1905, at his home, 35 Meigs street, Rochester, N. Y., April 13, 1905, aged 78 years. Deceased was born in Northeast, Dutchess County, N. Y. He was a son of Isaac and Sarah Reynolds, with whom he removed to Palmyra when a boy of 10 years. He went to Rochester in 1864. For a third of a century he held editorial positions on several of the leading farm journals of the State, among them the American Home Journal, of which he was agricultural and horticultural editor for about twenty years. He contributed frequently to the columns of Green's Fruit Grower, of which he was horticultural editor for several years; the New York Tribune, Ohio Farmer, New England Farmer, the Country Gentleman, and others. He held the place of secretary for the Western New York Horticultural Society until his illness compelled him to retire. He leaves a widow and three daughters.

The Late William Paul, V.M.H., F.L.S.

An Historical Review.

By the death of William Paul, at the age of 83 years, British horticulture has sustained a loss similar to that of the American confraternity on the decease of Thomas Meehan. William Paul was born a few years prior to the date when the steam engine on a railroad was established, and the introduction of the hot-water heating system for greenhouses was coeval with his entry into the world. His father was Adam Paul, a Scotsman, and in this connection it is remarkable to notice that our Veitchs and Laings, Russells, Wallaces and Barrs—all of them leading London firms at the present day—were originally started by native-born Scotchmen. William Paul was early acquainted with the leading men of horticultural fame sixty years ago. Loudon, a Scotsman, who was father of British horticultural journalism, and that is the earliest of all horticultural journalism, was at the height of his great fame in 1830-1840, and Mr. Paul knew him intimately, having dined with him at his home in Bayswater, then a center for the fashionable dilettante of the thirties. Loudon died in 1843. The deceased gentleman was also contemporary with, though much younger than, Dr. John Lindley, Sir Joseph Paxton, Robert Fortune, the renowned collector of Chinese plants and introducer of the tea plant into India; the Rev. J. M. Berkeley, the fungologist, and Dr. Robert Hogg, the pomologist.

Being of an active, enterprising mind, Mr. Paul was in the forefront of all the progressive movements during his time. He was a member of the committee of the National Floricultural Society which became established in 1851, and was the sole surviving member of that body at the time of his death. The formation of that society was owing to the suspicion that arose against George Glenny, the most noted and influential florist of that and a slightly prior date. His word was practically law, and awards to novelties were not always impartially bestowed; hence the society. This society became the Floral Committee of the Royal Horticultural Society in 1858, which still exists.

Mr. Paul's young manhood coincided with the changed practices in fruit tree culture, with the introduction of mowing machines, and with the earliest distinctive achievements in cross-breeding and hybridizing. What changes have been wrought since the application of the knowledge of sexuality in plants is amply demonstrated in the gardens all over the world to-day, and it is gratifying to find that the achievements by hybridization and selection have lately been greatly augmented by the skillful work of an American citizen, Luther Burbank. However, it was in England that the earliest work of this nature became known. Regarding fruit tree culture, which the Anglo-Saxon race in the United States is developing so rapidly and so extensively nowadays on true

scientific lines, it may be remarked that when William Paul was over 20 years of age, root-pruning was all but unknown and rarely practiced as an aid towards producing fruitfulness. Grafting on the Paradise and on the quince stocks for apples and pears respectively had only shortly before begun to be practiced, and the methods attempted for the suppression of insect and fungoid pests, most of the latter being only slightly understood, were often extremely ludicrous. But the forerunner of your American Emory fumigating box was surely our grandmothers' crinoline of 60 years ago, which, we are assured, were used over gooseberry bushes, which could then be fumigated from below.

These things I mention to show how varied, and, we may say, advanced, have been the changes experienced during the lifetime of one representative horticulturist. From the days when science was not, to these latter days when science probes all—it is a step.

French roses long held sway in England, but Mr. Paul was one of the earliest to begin crossing and raising good, improved English varieties, and his fame and that of the firm he founded, rests largely on roses. He separated from his elder brother after the father's death, so that the present extensive general nursery and seed business at Waltham Cross, a few miles from London, was entirely built up by himself, assisted latterly by his son, Arthur William Paul, who will carry it on without change. The camellia, the hyacinth and the hollyhock were other plants upon which the late Mr. Paul spent a great deal of labor.

As an author he will be best remembered by his *magnus opus*, "The Rose Garden," the first edition of which appeared in 1848, a notable date in many respects, political and social; and the tenth edition of the same work was published last year. It remains as a monument to him, and is the most complete and exhaustive book on roses. Some of his books have been translated into several languages, his list, as an author, comprising with the above, "Roses and Rose Culture," the "Rose Annual," extending from 1860 to 1881; "The Handbook of Villa Gardening," "American Plants, Their History and Culture," and numerous shorter essays and articles. I believe his collection of old horticultural, floricultural and arboricultural books was the most complete private assortment in this country, numbering hundreds of volumes, and all catalogued.

J. HARRISON DICK.

OUR READERS' VIEWS

The Needs of the Rose.

Editor Florists' Exchange:

What is called for more than anything else in rose culture, it seems to me, is the development of hardiness and free-blooming qualities, combined with beauty of flower and fragrance. Much is being done in this respect already. In time we shall have a class of roses with all the free-blooming qualities of the teas, joined to the sturdiness of the hybrid-remontants. Then, when a sure catholicon for the thrips out-of-doors, is invented, the rose millenium will have arrived.

GEORGE H. ELLWANGER.

Rochester, N. Y.

A Branching Tulip.

Editor Florists' Exchange:

In your Question Box, on page 406, I note that C. C. had a tulip bulb of the Proserpine variety that produced two blooms. May I be permitted to say that this is of frequent occurrence with this variety, especially if very large bulbs are planted in good soil. Two years ago I had fully 10 per cent. with two flowers in my own garden, which in a clump of nine bulbs planted in a specially favorable position and left until they ripened off, six developed this peculiarity. It is of no commercial value, as the later bloom is always very small.

S. B. DICK.

London, Eng.

The Torridor.

Editor Florists' Exchange:

Our late experiments at Hitchings have led us to conclude that much of the benefit we have received from the use of The Torridor for the past four years in our greenhouses is due to the equality of the rate of combustion during the whole night by a non-interrupted air supply delivered to the top of the fuel mass. If a thick mass of fuel is not kept free from ashes, the air spaces are clogged, and much of the gaseous fuel is unconsumed, because sufficient air is not supplied. Hence, to get a sufficient temperature in the latter part of the night, a too high early evening temperature and a larger supply of fuel must be provided.

J. M. W. KITCHEN.

Growing Freesia.

Editor Florists' Exchange:

A few weeks ago I promised to give your readers my method of freesia culture, and I think the present will be a good time for a few remarks on the subject, as growers of freesia, and, perhaps, others who have never grown it but intend doing so, will soon be thinking of laying in their stock of bulbs. And, perhaps, my way of treating freesia will be of interest to some.

I have grown freesia ever since I have been in business, and have always found it profitable, as it can be grown where a great many other things cannot. This year, which has been a very poor one indeed for most all sorts of cut flowers, I had no trouble in disposing of all my freesia, at a good profit; in fact, one dealer took all I had, which was from 250 to 350 bunches, nearly every day, showing that for fine freesia there is always a good market, as there is a scarcity of first-class stock.

Freesia is a plant that has a certain time for growing, and if good flowers, with long stems, are wanted, it must be planted at that time, or as near as possible, which is in August. It has often been advised to plant freesia at different times to prolong the cut of bloom. Now those who advise that have evidently never grown freesia, or are not acquainted with its habit of growth. Freesia will start naturally to grow in August, whether planted or not, and the longer it is kept out of the soil after its natural growing time the more it suffers in loss of vigor. The freesia has to make its full growth of foliage before it starts to form its new bulb, which it does in early November; then all growth practically ceases until the bulbs have nearly reached full size. It then commences to throw up its flower stem, which comes from the new bulb and not from the old one. The only apparent use of the old bulb is to grow the foliage stem until the new bulbs begin to form, which commences like a swelling around the base of the stem, where it is connected to the old bulb. As soon as the swelling takes the form of a bulb, it throws out one and sometimes two large, thick roots, from which it supports itself, and then is entirely independent of any support from the old bulb, which commences to dry up, as its usefulness is at an end. The new bulb then devotes its energies to sending up the flower stem and growing the family of young bulbs, which are found clustering around it.

Our belief to-day is, so far as the season's work has demonstrated, that we have derived the best results from your paper.

H. BAYERSDORFER

Philadelphia, April, 1905.

So much for the habit of the freesia. Now I will tell you how I grow it. About the end of July I commence to get my benches ready for planting, which latter is done in August. I use all my benches under the long span, in which I put five inches of rotted sod (but any good light loam would do as well) with one part manure to three or four of the rotted sod. After leveling I make marks by pressing a piece of plaster lath edgewise across the bench, six inches apart, the entire length of the bench. These marks are made for the purpose of keeping the rows straight. Over these marks I make seven circles with an inverted three-inch pot. That many circles is for a bench 3½ feet wide; a wider bench will hold more, a narrower one less. The edges of the circles in the rows will be about two inches apart, and between the rows three inches apart. Now, on these circles I press six bulbs one inch apart, so that they are from a half to an inch below the surface, or far enough so that they won't be knocked out when the bench is covered, which is done by merely rubbing over the top with the hand. After covering, the bench is thoroughly watered. Freesia requires lots of water; the plants can never be given too much, for wherever there is a drip on the bench all winter the best flowers and the largest bulbs are found.

Then the first step toward the support is taken. I nail sticks on both sides of the bench, on the outside, which project above the bench about eighteen inches. It is dropped (four-inch mesh). It is lowered as far as it will go, so as not to interfere with the weeding of the bench, until the freesia, which grows up through the wire, needs to be supported. The wire is then raised very easily any desired height, by merely lifting it up at each stick, as it isn't fastened. The wire makes the finest support imaginable. When once stretched in place, there is no further trouble. It can be got in any width and of any sized mesh. I intend to use as a carnation support a seven or eight-inch mesh.

Freesia can also be grown in boxes five or six inches deep, but the great danger in growing them that way is from dryness. They cannot get the water they require grown in boxes or pots, unless given extra attention.

Now, a few words about the time of blooming. They can be brought into flower by growing them in a rose temperature (I usually cut my first blooms from the 8th to the 12th of January) in a temperature of 45 degrees at night. Those in the warm houses bloom first. I started cutting on March 15th in a house that was planted at the same time as those I cut in early January; the difference in temperature made the difference in time of blooming. The late blooming house was kept just above freezing; the flowers in it were grand in March. Freesia should be heavily shaded to keep the flowers from becoming small.

R. FISCHER.

The Commission Man and His Defects.

Editor Florists' Exchange:

I have no desire to prolong the discussion of a subject which can but prove as profitless, as the original accusation which caused it is without foundation, so far as, in my opinion, the commission man who is up-to-date and knows his business is concerned. But I would just like to point out that Mr. Birnie's second contribution is as illogical as his first effort, when he attempted to tell the New York Florists' Club the chief characteristic in a carnation, by offering a criticism of the commission man's methods of handling the flowers, a criticism, too, which seems to have been based on "average" work, and not on superior service in this respect, which latter is largely available and in operation, if one will only look for it.

It is not clear what Mr. Birnie means when he says that the matter "is of such importance that the American Carnation Society ought to take it up." If he refers to the keeping qualities of the flowers, I might inform him that that subject has been considered by that society time and again, as well as other important subjects designed to benefit those who support the society, and those who don't. But neither the American Carnation Society nor the commission man can be held responsible for the inefficiency that produces flowers which will not last.

True to my motto, I have gathered a few remarks that will show the other side of the commission man. The following is from a paper, also read before the New York Florists' Club, by Mr. Shaw:

"And you wholesale florists, what has Easter in New York been to you through all these more than thirty years? You who have demonstrated your necessity, and by your tact and energy have added a thousand-fold to the prosperity of the grower, and covered the wide land with glass thereby until every hamlet has its greenhouse and the reflection from the sea of crystal can be seen from every hilltop! Your nath has not been and is not all roses. You have established centers of distribution, through which the retail business of this city has been developed to its present wonderful proportions, and by your system only could such results have been accomplished. I know much of your faithfulness to duty, your watchful devotion to your growers' interests, your promptness, your generosity, your frequent sacrifice of self that those who entrust their welfare to your care may be content. And I believe you are appreciated more and more as your value and necessity are realized. Time seems to be with you an after consideration. I never hear you complain of long hours, and I have seen you hustling often through the live-long night. Where would the retail florist business be without you? A plimpy gasping for existence! In such a city as ours your value, your power, your necessity are dovetailed into the growing and retailing departments of the trade so thoroughly, so harmoniously, that you are a fixture as long as plants grow and flowers bloom. And you deserve to be; we cannot do without you."

What follows further is taken from the editor's "say" of the new horticultural paper published at Boston:

"The distribution of the vast quantities of flowers used for the Easter festival would be an impossibility without this agency (the cut flower commission men), which by energy and industry has widened the market for the grower and brought the remote dealer in direct touch with the sources of supply. The commission dealer is the producer's best friend and prosperity for one means prosperity for both."

These citations seem to be the outpourings of hearts fully convinced that acknowledgment of worth should be made, and from their similarity the honest convictions of "two minds but with a single thought." So far as my knowledge and belief goes, the words were uttered and written by men who know whereof they speak, men who would spurn to act as a cats-paw, men with no axe to grind.

And I submit to any reasonable reader if the results attained and the conditions brought about, as these are set forth above, could have been reached, were the commission dealer the careless, reckless handler of stock which your correspondent tries to hold him up to be?

THE GATHERER.

THE NEWPORT (R. I.) HORTICULTURAL SOCIETY has just completed arrangements for two exhibitions this year. For several years past the exhibitions of this society have been held in Masonic Hall, but the growth of the society and the greatly increased number of exhibits each year, together with a generous increase of interest on the part of the Summer residents, gave reason to suppose that if a more commodious as well as a more fashionably located place for these exhibitions could be obtained, still greater success would result. With this end in view the Casino, the great rendezvous of fashion, on Bellevue avenue, has been secured for the society's exhibitions. The first, an exhibition of roses, fruit, flowers and plants, will be held in June; the other, a grand exhibition, embracing all the main features of former ones, with several new and attractive classes in addition, the whole to make the greatest horticultural show ever held in this city, will be held in August. The premium schedules are to be printed and issued to the number of three thousand. David McIntosh, Ledge Road, Newport, R. I., is secretary of the advertising committee.

Impressions of Canadian Horticulture.

(Read by Edgar Elvin before the Montreal Gardeners and Florists' Club, April 1, 1905.)

I seem to have been allowed down to the above-mentioned topic. If I were to take any cultural subject, which one would much prefer, you would no doubt meet me with the general retort that "It would not do for this country." I am further informed that one must be at least two years here before one has attained the necessary conditions of plant life. To both sweeping generalizations one feels inclined to respond with a equally emphatic protest. As to the first I admit that to any man whose life has been a continual study of changing environments the phrase to greet him with is not radical revolution of his past, but gradual adaptation to his present. As for the two years' probation, that depends altogether on the man and the use he makes of his opportunities. But may I say at the outset that there is no profession where dogmatism on either side is so utterly out of court. There may always be some incidental detail out of sight which may change or modify one's whole position. My duty to-night is to act as a sort of mirror to all present. Whether you will be perfectly pleased with your own reflection is as yet an open question. It is not usual in good society to tell a man at first sight what you think of him; neither is it always good policy to put a window in one's own mind for all to gaze into; but you will bear with me for a few moments, and perhaps I shall be doing you some small service. In any case, it is a good thing sometimes to be seen with fresh eyes, from the point of view of an outsider. Scotchmen, since the time of Burns, have been asking for some power to see themselves as others see them; they will not readily take offence or need conciliating.

I admit at the outset that my qualifications to act

union and a larger trade with Great Britain. It would be a good thing if in matters horticultural we could have free trade within the Empire, and as wide a door as may be compatible with self-protection to all outsiders. At any rate, we ought to seek deliverance from all narrow and short-sighted methods; our views ought to be as generous as Mother Nature, as wide as our business, that is as broad as the world from which our materials are drawn.

A Spacious Country.

My first impression of Canada was that of spaciousness. Things are on the grand scale. One has the feeling of breathing a larger ampler air. This factor of mere size alone it seems to me has reacted on the Canadian mind. His mental faculties seem to take a wider sweep than the usual island-bound Britisher. This applies not only to his outlook on life but is vigorously applied in his business. He thinks in continents and is at home in the wholesale trades. Your born or naturalized Canadian gives the impression of great physical vigor. A sharp grip of life, a breezy optimism seems to possess him; a certain attitude of self-confidence betrays itself in his speech, walk and general aptitudes. How much he owes to a bracing climate, to a freedom of opportunity, or a growing consciousness of prosperity and consequent independence, are questions which might well set the ball rolling in debate.

The Canadian's Capabilities.

While I admire your Canadian in many respects, I do not think the average man in our business is as well informed in all-round horticulture as those at home. He is a good specialist; but his general knowledge has been largely limited by his opportunities. Then, again, I might briefly point out what seems to

these exceptions, I have a great admiration of his business capabilities, and, taken all round, he is a very fine fellow, indeed.

The Canadian Florists' Stores.

After the men, we come to the stores. One is immediately struck with the really magnificent carnations and roses. For length of stems, richness of coloring, largeness of blooms and general aristocratic appearance, they quite outclass those usually seen in florists' shops in the old country. Cyclamen, too, with long flower-stalks well up above the foliage, were very good; only from Kerr's of Liverpool have I seen finer. Poinsettias and chrysanthemums were fine, but not extraordinary. Lorraine begonias had some fine examples. Spring bulbs are of good quality, and well handled. Foliage plants are only of medium quality. The Christmas dressing of the stores and windows was in good taste, and the trade done a revelation. But, speaking generally, the conditions of the windows leave much to be desired. With one or two conspicuous exceptions, they present a slovenly and often bedraggled appearance. In this respect you are behind the florist in the old country, who always looks well to his windows. The introduction of a little pleasing novelty, and a more pleasing blending of the material to hand, would be fully appreciated by the flower-loving public. As to floral and decorative work I can hardly speak; but from what little I have seen, and the catalogues I have reviewed, there appears to be greater originality of design here than in the old country, though in this respect there has been a great awakening during recent years across the water. The tendency in both cases is toward a more open and natural arrangement and simplicity in designs. The Boston laurel and southern smilax as decorative subjects were both new to me; both are very effective on a large scale.

The Plant Houses.

We turn now to the plant houses. These are spacious, admirably fitted for flower-growing by the bench method, insuring, as they do, the maximum of light and air. But for plant growing I prefer smaller houses, as in the old country. The question of steam versus hot water for all subjects is a debatable one. While I quite see the necessity of a brisk heat for flowering and forced stock in a Winter like this, my opinion is that for an ideal plant atmosphere there is nothing like hot water heating, insuring greater equilibrium of temperature for growing subjects and not drawing too much on the reserve forces of so many that need a partial rest during Winter. Then there is the question of the hose pipe. My own feeling is that there is a temptation to overdo it in the Winter time; especially does this apply to pot plants. Whether it is harmful to use the cold water direct from the mains, or whether aired water would not give better results, is a question I should like answered. I am persuaded that you have here in Montreal as fine a plant-growing climate as can be desired, with a water which has traversed every strata and holds in solution almost every kind of plant food. There is, perhaps, a danger in these advantages to induce a certain disregard of detail which in a less favorable state of things would lead only to a moderate success. To point to only one example: Everything seems to be grown in one soil, and that not always of the best. A more exact scientific method of working might give the highest possible results. Given a man with capital, capability and courage, there is here a splendid opportunity to show what can be done in the way of pot plants; especially in choice ferns and fine foliage stock. What a magnificent climate for crotons and other stove subjects! How dendrobiums would thrive and ripen up in this brilliant sunshine! What splendid vine canes could be produced! I feel certain that even such Winter and Spring subjects as cinerarias, herbaceous calceolarias, streptocarpus, etc., could be well done, in spite of certain obvious difficulties. Sutton's and Dickson's new dwarf, star-shaped pink and white cinerarias would be well worth a trial.

More Variety Needed.

I should like to put in a plea for more variety. The position of the rose and carnation we may regard as unassailable. We hope so. But perfection itself may become icily faultless, splendidly nil, when it is reproduced to satiety; and I feel sure the people would respond to something that would combine and associate well with the Queen of Flowers. Further, in this connection, I share with you a growing faith in the boundless possibilities of progress in this great Dominion. In its train there is sure to come that development of the arts and luxury of life which is the basis of our business. There will probably grow up a civilization which will eclipse all the courtly and artistic splendors of the old world. Horticulture will open up a new field by supplying a large private garden trade, as in the old country. A few years hence, we who are on the ground will be regarded as the pioneers of our profession. It is our duty to keep our eyes on that future and anticipate its needs. The man who can add to the enjoyment of life will not only do a good thing for himself but he will earn the lasting gratitude of his kind. We may not be able at present to lead the way in hybridization, but it is possible to make experiments with the innumerable



BENCH OF CARNATION ELBON. Grower J. H. A. Hutchison, Oxford, Pa.

as guide, philosopher and critic are of the slenderest type, having only been with you some four months; on the other hand, it has been my privilege to see much that is best in British horticultural life.

I shall endeavor to be to the point, and I trust that at any rate we shall be able to raise a first-class debate, which may be of some service to all and the greatest to him who now speaks with you.

Comparisons are Odious.

To begin with, I should like to protest against the fashion in some quarters of making odious comparisons with British methods, usually to the depreciation of the latter. The chief duty of a born Britisher is not to sow or perpetuate rival antagonisms with our old countrymen. Such an attitude in any son of the Empire is not worthy the grand old race from which we have sprung. As a newcomer, may I say that horticulture in Britain is not yet in extremis; on the contrary, it was never so full of vigorous life as today. It is true there has been a certain metamorphosis in the trade. The great old firms, perhaps, do not do the same business as of yore; but there has sprung up a host of small growers and florists to meet an increasing demand. The love of flowers was never so strong as now, as witness the magnificent shows so well patronized in London and the great provincial cities, and also the increased attention to gardening subjects by the weekly newspapers and monthly magazines.

The United States Canada's Model.

I note that the model of Canadian florists is the United States. That is natural and, perhaps, inevitable; but with its turbine steamers reducing the passage time there may come what is to be desired—a closer

me certain defects in his constitution. In the first place, he is inclined to impatience with all who do not conform to his own type. "Wanted, a Hustler," is a common advertisement. Now your hustler may be, and often is, a mere bustler, or a bungler, and sometimes a mixture of both. Your hustler is set over against the man with quiet but clear intelligence, and often with a single superficial view. The latter is outclassed, and suffers temporary eclipse. Now, I put it to you, that there is no business where an exact, well-balanced judgment is as often required; where a little carelessness and inattention to detail count for so much, as in ours; where a seemingly trivial error will leave most ruinous marks on the year's account. There is not an uncommon type of mind which is not given to glibness or quickness of reply; it may be slow, not because it cannot see, but because it sees so much. This man sees not only the subject in hand, but is seeking and seeing its inter-relations also. Thoroughness is his motto and perfection his aim; everything counts with him, but being sure of his ground and certain of his feet, he will pursue it with all the energy he may possess. The sort of man who is not always in frenzied haste, he can afford to pause and wait. The sort of man who always wins in the long last, but not readily understood by your Canadian.

Then, too, I have noticed the danger of a bragging, boastful egotism which so often spoils the man who has achieved a partial success. You may retort that too often it is a too bumptious Britisher who is the innocent cause of these outbursts. Not always; it seems to me rather like the reflector, of the time spent on this side of the water. There can be no objection to the statement of facts as facts. It is the irrelevant trotting of them out to the disadvantage of the listener which is so offensive. There is a specially strong temptation to overstatement in our business, but nowhere perhaps has it been so exalted as one of the virtues of the trade as on this continent. With

good things which are being raised, or introduced, by others across the seas. While your climate will always limit the area of your choice, especially in hardy subjects, seeing that you have an extreme Winter and a tropical Summer, still there is here, as well as indoor, a wide field for investigation.

Canada vs. Great Britain.

You may ask what do I think of Canadian horticulture at present, as compared with that of Britain? Well, I feel inclined to agree with a gentleman of high standing over there, who said to me before I set out that I was going to a land where horticulture was in its infancy. I do not think he had adequately gauged the progress already made; but, having seen a little, and heard more, I should indorse his statement. When I look to the future I cannot but feel we are in the embryonic stage. This Canadian seedling will become a mighty tree at length, wherein all horticultural interests may find room beneath its spreading branches. It is to that future that those of us who are young, or on the right side of Dr. Osler's age limit, naturally turn; and, in closing, I should like to point out lines which we may take in shaping that part of it which may come within our reach. In the first place, we should emphasize the need of a greater pride in our profession. Yes, gentlemen, profession; not trade. Horticulture has not as yet received that public and social respect which has been the lot of other professions, and to which we are justly entitled. We do much to sweeten and refine public life. We have a grand business, and we ought to take a more legitimate pride in it.

ourselves, I am sure we should say that, in our best moments, our greatest pleasure was our joy in this work; the luxury of creating and overcoming. In our business, it is true, as the old proverb has it, "The virtue is in the struggle and not in the prize." Or, as Emerson so finely puts it, "The best reward for a thing well done is to have done it."

Leaders Wanted.

Then there is the duty of doing our level best to make horticultural exhibitions a greater success. It is a pity that the metropolitan city of Canada cannot do better things in the way of shows.

Then, too, what a miserable show in the way of horticultural news in Canada. There surely is room in this vast Dominion for a first-class national paper. When it appears, we ought, by subscriptions and contributions, to support it. I am convinced that what is needed now is capable leaders—men who will gather up and focus all the aspirations of their less able brethren; men of wealth and influence to devote both to the advancement of horticulture in the way that Sir Trevor Lawrence and Baron Schroder are doing in the old country; statesmen of the front rank to do for some flower what Mr. Chamberlain has done to popularize the orchid; growers like the Rochfords, May, Paul and Veitch; hybridizers like Heal, Kelway, Suttons, and Dicksons of Ireland. Given such leaders, the people, with their deep love for novelty in flowers, will readily respond.

In conclusion, I feel I ought to say how I appreciate the work which this club is doing, as also the general

Carnation Elbon.

We are indebted to J. H. A. Hutchison, of the Locust Greenhouses, Oxford, Pa., for the accompanying illustration showing a bench of this new carnation, which has been named Elbon by the grower. Mr. Hutchison says the variety was originated by Roney Bros., West Grove, Pa. He has been growing it for two years. The flower is a deep red, of medium size, strong stem, very fragrant, and a good keeper. The plants root easily. He finds it does best in a warm house. Mr. Hutchison further informs us that the picture does not do the variety justice; the wealth of bloom not showing up well. "It is the greatest bloomer I ever grew. From one bed, 3x40 feet, we have been cutting from 250 to 300 flowers a week."

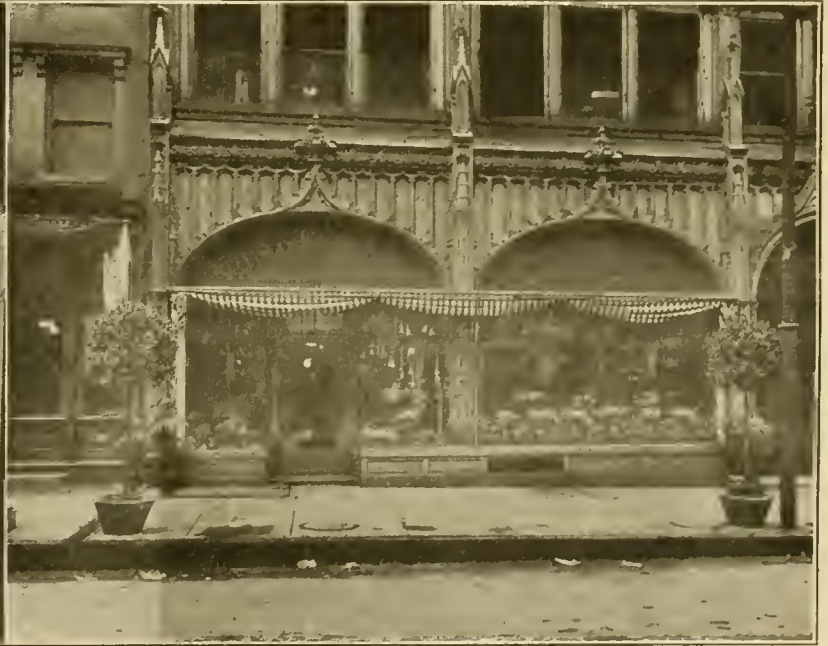
Nephrolepis Piersoni Elegatissima.

The Gardening World, London, England, in its issue of March 25 last, has a very interesting article on the development of some of the various forms of *Nephrolepis exaltata*—viz., the Boston fern, *N. Piersoni*, and latterly, *N. Piersoni elegantissima*, or the Tarrytown fern. Of the latter, the following technical description is furnished:

"We should say the frond is ovate bipinnate-pinnatisect; that is, it is twice pinnate and the pinnules are divided again nearly to the base. The result is a frond of remarkable density. The internodes of the leaf-stalk have not become developed in proportion to the enlargement of



INTERIOR VIEW



EXTERIOR VIEW

THE NEW STORE OF JULIUS BAUER, CINCINNATI, O. (See page 402, March 25 issue.)

There is, perhaps, no profession that calls out so many faculties and so ministers to that many-sidedness of our common nature as ours. Horticulture has produced some of the grandest possible types of character. One needs both character and brains to be a first-class horticulturist. The day is past when any man who devotes his life to this work should be looked upon as a social inferior. Our compensations are not at all commensurate with what we put into our business, on the material side, without this added indignity. Somebody put it tersely by saying that an all-round gardener was expected to have the knowledge of a king's counsel, with the wages of a laborer; and we all know that a florist millionaire is about as rare as a white crow. If we do not achieve this distinction of making money, we may all make our business minister to that character which is the only true aristocracy. It is for us to lift our business to its proper place in the life of the community.

A Plea for Idealism.

Then I should like to put in a plea for idealism. We ought to be satisfied with nothing less than the best. We possess this in degree, for it was the love of the beautiful that first drew many of us into it. We need it in large measure as the days pass. The man who does not love plants for their own intrinsic worth will not get the best out of his material. To quote again, Dean Hole's classic saying: "He who would grow beautiful roses must first have beautiful roses in his heart." In a word, the ideal must be incarnated in thought before it can be materialized. What are we all after? Not merely the pleasure of counting the numbers on certain dirty pieces of paper, necessary as that may be. If we were to ask

friendliness to strangers that I have noted among its members. It is surely a good thing to meet in this way in such a genial atmosphere, to talk over without bitterness those things that pertain to our common interest. May the club prosper as it deserves! I rejoice in the freedom of this land. It is a goodly land and a large, and if not exactly a land flowing with milk and honey—or dollars for that matter—it is at least the land of an equal opportunity. It is a great privilege to be on the ground in this, the experimental stage. It is an honor to take any part, however small, in putting in the foundation of what will one day become one of the greatest English-speaking nations. Here, if anywhere, may be realized Thomas Carlyle's ideal dream of freedom. Let every man become what is possible for him to be. Let him expand to his full growth. Let him cast off all artificial conventionalities, and especially all noxious adhesions. Let him show himself at length in his own shape and stature, be they what they may.

WINDOW GLASS.—The demand for glazing purposes has been increased by the more settled weather conditions, accompanied with warmer days. The car-load trade from factory is reported as continuing somewhat light. The fact that prices were reaffirmed the last of March, that labor troubles may be anticipated among glass workers, and the high price of foreign glass lead some to believe that no lower glass prices will rule this year. Local quotations are as follows: First two brackets, single, 90 to 90 and 15 per cent. discount; larger sizes, both single and double strength, 90 to 90 and 10 per cent. discount from jobbers' list.—The Metal Worker.

the pinnæ; consequently, we find the latter greatly overlapping each other, and at the same time placed one over the other almost horizontally, so as to give them the proper space to flatten out. The result is a frond of great depth from back to front, and this can only be appreciated by looking at the frond sideways.

"We may still further notify our readers that we have not yet seen the end of development, even in this remarkable plumose form of *N. exaltata*, for a fourth form has arisen in the nursery of the same firm, and is even more finely divided than the Tarrytown variety."

TEA GROWING IN SOUTH CAROLINA.—Stimulated by the experiments at Pinehurst, S. C., the American Tea Growing Company has been organized for conducting tea culture at Rantowles, Colleton County, near Charleston, and has seven thousand acres of land with seven hundred thousand young plants in the nursery ready to be transplanted. A thousand acres of tea will soon be under cultivation with the best prospects for success, as the industry now seems to have been carried beyond the experimental stage. In order to extend the industry, the United States Department of Agriculture has recently established an experimental tea garden in Texas. The industry is being constantly developed and extended at Pinehurst under the direction of Dr. Shepard, and from a few acres with a production of several hundred pounds of tea, there are now approximately one hundred acres in cultivation with an annual outturn of approximately nine thousand pounds of manufactured tea.—Bulletin 96, South Carolina Agricultural Experimental Station.

TALES OF A TRAVELER.

Mexico City.

San Antonio is the eastern gateway into Mexico, and thirty-six hours' travel brings one into the capital city of our neighboring republic. The country through which the national lines of Mexico pass are full of interest, and the scenery is constantly varied. Between San Antonio and the Mexican border are great fields of scrub vegetation, noticeable chiefly for the luxuriant growth which mistletoe makes in this section. All throughout this region mistletoe is seen in great profusion, and the occasional razor-back under the mistletoe only adds to the reasons for being shy of the seductive parasite. Intermixed with the oceans of cacti are now and then well-tilled gardens and farms, which break the monotony and relieve the eye. A great deal of the country between the American border and the City of Mexico is devoted to the raising of cattle and sheep; and as the traveler passes through this country the mansions of the owners of these vast tracts of land make an interesting contrast with the mud or straw huts of the common Mexican.

The Native Beverage.

One of the features of the farming within the section north of Mexico City and south of San Luis Potosi, are the immense fields of the native plant maguey, from which is produced the native beverage of the Mexican. This liquid, pulque, is taken from these plants when they have attained the age of seven years, and is of a milky white color, with a flavor very similar to that of the corn beer, for which the Scandinavian races have such a liking. In growth and appearance these plants resemble the yucca of California, and on maturity they are worth to the owner the sum of seven dollars. After being robbed of this fluid the plants die and their places are filled with others, which will, in time, be a source of supply of this enticing fluid.

The City's Attractions.

The City of Mexico is the most interesting city which it has been my pleasure to visit, and unless one knows the capital city of this vast country below the Rio Grande he has no idea of what the best of Mexico really is. History tells us much of our sister republic, but it does not picture the beauties of the City of Mexico as it is to-day. Never have I seen more industry displayed by a municipality in the paving of streets, and the streets of this city, as they are to-day, will be hard to surpass. President Diaz has been a prime factor in all the improvements which have been carried out so systematically; and knowing the future of his country depends on the improvement of the cities, the bettering of traveling facilities, the starting of manufacturing as a home industry, and a better understanding of agricultural methods, he has done much toward bettering the condition of the masses and is awakening an interest in a better mode of living.

Extremes are the rule in Mexico, and there is practically no middle class in the republic. The people are either very rich or very poor, and labor is at a minimum. Farm labor would be high at thirty-five cents per day in Mexican currency, and this at the present rate of exchange would be less than eighteen cents per day in United States currency.

The methods of handling ornamental plants in the city are still very crude and only this cheap labor, where combined with the fact that only the wealthy



SCENE IN THE FLOWER MARKET OF MEXICO CITY, MEX.

attempt anything in this line, makes possible the results which are being attained without modern tools and the knowledge of how to use them. The houses of the wealthy show that flowering and ornamental plants are admired. The city is filled with small parks which are, as a whole, extremely well kept, and the growth of plants and trees when well cared for, is most luxuriant. The barefooted laborer with his jug of water on his head, caring for the irrigation of these private gardens, is a common sight, while in some places mammoth watering pots are used, showing that the tendency toward improvement is gradually being felt. I saw a hose in use in but one place, and this notable example was in the private garden of President Diaz where a gasoline engine, an artesian well and a fine hose were being used to irrigate a lawn.

The White House of Mexico.

"El Castillo de Chapultepec," constitutes the "White House" of Mexico; and this immense castle on the rock, which is so famous in history, is surrounded by an immense park in which the whole republic takes pride; for the gardens about the palace, and the drives, are the best examples of the art of landscape gardening in the entire republic. On this immense rock, which overlooks the city, is the castle and the private entrance of President Diaz, reached by means of an elevator, the shaft for which has been hewn from solid rock, and this without the aid of modern tools, and must have entailed an incalculable amount of labor. On the exterior this immense rock is far from smooth, and the breaks and crevices in the surface

are filled with shrubs and flowering plants. The inner court of the castle was one mass of bloom on the occasion of my visit, the last week of February, and the plants show the care and attention so lavishly bestowed upon them by those to whom these gardens are entrusted. The bougainvilleas and another climbing shrub, or vine, of which the only name I could learn was "gloria," divide honors with the ivy geraniums, which are so abundant, and the heliotrope, which makes such a wonderful growth in this climate.

Near the entrance to the castle a magnificent collection of araucarias is to be seen by those who possess the proper credentials, and these numerous specimens are by far the most perfect of any I have had the pleasure of seeing.

Parks and Gardens.

The Oriental gardens at the "Castillo de Guadalupe" present an interesting scene, and the semi-tropical climate of the City of Mexico seems well suited to the many Oriental plants with which this most attractive garden is filled.

The "Zocolo" is, perhaps, the largest park controlled by the city proper, and many fine trees and shrubs are carefully cared for here. Some hardy roses have been planted among the collection of semi-tropical plants, but on the occasion of my visit they were half dormant. They show, however, the tendency of the people, and the fact is worthy of comment from the standpoint of the lover of plant life, who admires a tendency toward better gardening.

The Flower Markets.

The flower vendor in the street is everywhere, and the varied masses of color which he is so anxious to offer to even the most casual observer make a striking contrast with the person of the vendor and his surroundings.

The flower market proper is situated in the "Zocolo," or park, and has been made a government concession. Stalls are rented out to those who take the part of the wholesaler, and the competition is strong among the dealers for the attention of a supposed customer. There are no retail flower stores in this city, and those who buy must either patronize the vendor on the corner or submit to the appeals and entreaties of those who supply these same dealers from the stalls in the "Zocolo."

The tombs of those who have belonged to the higher classes and who have been either fortunate, or unfortunate enough to lose their claim on a mortal existence before entering into rest, make business for the flower vendors. The made-up design is the feature of the flower market, and the primary object in this work is size. Color claims precedence over all other qualities, aside from size. If the departed be well loved, his tomb, for years, will be always covered with flowers, and every morning large numbers of ready-made designs are to be found on the sale tables of these stall merchants. An interesting feature of these tombs is the fact that a tomb may be bought for a term of seven years, or as a perpetual resting place for the departed. In the case of the seven-year interments, the friends of the departed make the best of their opportunity and begrudge nothing to the tomb while it still contains the remains of their departed.

The framework of these immense designs is of wood, and this wood being green can be readily bent to the desired form. The backing for the flowers is damp hay or straw. Not a single specimen of wire is in the entire make-up of a design of this character, and a great deal of ingenuity is needed by the artist in the handling of material to make it adhere to the desired



HOME OF A MEXICAN FLORIST

spot. Everything is massed, and the object is merely to fill the necessary space with little or no reference to the quality of the material used. The flowers are, with care and patience, fastened by thread to small sticks, and often inserted in bunches to fill the space more rapidly. Crosses and wreaths are abundant, and a basket will be often found in the collection. Flat bunches are unknown in this place, where quantity is the chief essential.

Callas are abundant, and in great profusion are poppies, stocks, pansies, white and blue violets, cut bougainvilleas, sweet peas, marguerites, cannas, azaleas, iris and gardenias. The only roses are the native pink ones, which are cut with long stems, and these flowers, in large bunches, are everywhere. Geraniums seem to be great favorites with the people, and the market is always filled with them. The Lady Washington type does well here, and is seen everywhere.

A palm much resembling *Areca lutescens* is used here in making up bunches. One of these so-called wholesalers wrote out for me the name "Camedor," signifying this palm. A wild adiantum is also used largely in the making of bouquets for table use, and the canyons furnish this fern, which is really a close rival in the frond of our *Adiantum cuneatum*.

As a whole, the market is one big discord. Mingled with the entreaties of the anxious salesmen and saleswomen is the song of birds (for here also the vendor of feathered beauties has a place), and the chattering of the monkeys, which there are no organ grinders to buy. The spectacle of this market in full blast is not soon forgotten, and should not be missed by the visitor to this most interesting city.

A majority of the flowers come from within a very short distance of the city and they are usually fresh. Their method of handling them with a little bunch or a corsage bouquet is unique. Long spears of grass are wound into the stem, for example, of a bunch of violets and the whole presents the appearance of a violet plant on a load of green fodder.

We can, however, learn from them a great many things and take advantage of points which they can teach in originality. And then, too, the flower merchant in Mexico has learned from his experience with the American. "Cuanto vale" (how much) you say to the dealer, and you get the reply, "cinco pesos" (five dollars). "Too much," you say. Quick as a flash the reply comes back, "How much will you give?" And the price accepted will be at most one-fourth of what he asks if you are wise and have paid your initiation fee into the Mexican method of selling flowers.

So far as climate and scenery are concerned Mexico City is far ahead of our far-famed California. A matter of opinion, perhaps, but general opinion among those who know both places. And if you visit the City of Mexico you will find vegetation that will be interesting, parks that are beautiful, and a clean nice city ready to welcome those who come, as one should come, ready to take things as they find them. The florist of the United States who will spend the early hours of the day in the flower market of the city will be repaid for his trip.

W. R. PIERSON.

Our London Letter.

BY A. HEMSLEY.

THE ROYAL HORTICULTURAL SOCIETY.—At each of the fortnightly meetings we seem to get larger and larger attendances and also more exhibits. At the meeting held on March 23 the exhibits were extensive and varied, and during the afternoon the hall was thronged with visitors. And it is gratifying to note



FLACHQUERO DRAWING PULQUE, THE NATIVE MEXICAN BEVERAGE, FROM THE MAGUEY PLANT

that new Fellows are joining at each meeting. To give a full list of the interesting exhibits would take up much space, but I will refer to a few of the most interesting features. In daffodils, which were prominent, King Alfred, a large golden yellow trumpet variety, was quite the most attractive as a market sort, quite eclipsing Golden Spur. In pure whites there is no rival to Peter Barr, yet it may be some time before we may see this in the market, and for ordinary cut purposes it will never take so well as the best yellows and bicolors. Of bicolors, the best noted was Duke of Bedford, a large flower of good substance. Crimson Rambler roses from H. B. May were good, also Little Pet, white, and Mme. Norbert Levayassens (the Baby Rambler). Clematis were also good from the same exhibitor. The carnations from Messrs. H. Low & Co., Enfield, included some good things, mostly of the American type. Of the newer sorts raised by this firm Fascinator, rose pink, and Coronation, cerise pink, large full flowers, were very good, and should prove valuable additions. Messrs. Ambrose & Son also had some carnations. Flamingo was in good form and secured an award of merit, and the previous week it gained the same distinction at the Royal Botanic Society's meeting. Lillian Pond and Harlowarden

were also well shown. From Messrs. Paul & Son, Cheshunt, came an interesting collection of new flowering shrubs. The hybrid deutzias were well flowered and very pretty. A new tea rose, Warrior, large, deep petals, crimson, with a pink shade in center. A number of pot plants were shown, all carrying good blooms on long stems, and good foliage of a dark shade of color. This will certainly make a useful rose. Though said to be a tea, it had a suggestion of the China in it. The roses from George Mount, of Canterbury, were superb, especially Mrs. J. Laing and Captain Hayward.

Messrs. Cutbush & Sons made an extensive exhibit. Erica Wilmoreana grandiflora gained an award of merit. They also had good carnations, General Kuruki, their new scarlet, being very fine. Messrs. Boyes & Co., of Leicester, are giving much attention to carnations, and have raised some good varieties. Dr. W. G. Grace, a rich crimson scarlet, with large fringed petals, good calyx, and sweet scented, with long stems; Lady Carlisle, a fine pink, and Lady Wright, white, slightly suffused with pink. The above all show some affinity to the American varieties. A. F. Dutton, who has done so much toward bringing the American varieties to the front in this country, promises us some good things of his own raising. This enterprising grower is making great headway. His new nursery at Iver, Bucks, where he has put up a most convenient block of houses, is now in good going order. I may add that Mr. Dutton has adopted the American system of planting on benches with great success.

Crowea angustifolia, for which Messrs. J. Veitch & Sons, of Chelsea, were given an award of merit, is a neat and pretty plant, of slender growth, with small, narrow leaves, from the axils of which are produced numerous starry pink flowers. It is an old introduction from West Australia, yet, as a pot plant, it is one of the prettiest things we have seen, and should make a good commercial subject.

THE ROYAL BOTANIC SOCIETY had their first Spring show on March 22. Though not extensive, it was most interesting, there being a nice variety of subjects. Messrs. Hill & Son, of Edmonton, put up a very large and interesting collection of ferns, for which they were awarded a gold medal. *Platycerium* were a feature. *Nephrolepis* were also good, and included some fine examples of *Piersoni*, also of *Scottii*. Mr. Hill speaks well of this latter, and though it has failed to gain a certificate, it will evidently make a good market fern. *Osmonda Hillii*, a fine variety of the North American *O. gracilis*, gained a first-class certificate, and the same award was given to *Pellea robusta*, a strong growing form of *P. hastata*. The long pinnate fronds were of a rich, deep green, with a bright surface. The new *Polypodium glaucum giganteum* was well shown.

J. R. Box, of West Wickham, showed some splendid plants of *Begonia Gloire de Sceaux*. I am surprised we do not see more of this fine begonia, for it is certainly one of the best things we have for this time of the year. *Begonia Triomphe de Lorraine* is another which is worth looking after. Messrs. T. Cripp & Son, of Tunbridge Wells, does this variety well.

Cyclamen were splendidly shown at the Botanic by J. May, Twickenham. They were of the giganteum type, with large flowers standing well above thick, leathery foliage. Mr. May has been growing cyclamen for the past 30 years, and evidently understands them. His strain cannot be beaten. A silver gilt medal was awarded by the R. H. S. and a large silver medal at the Botanic.



GATHERING FLOWERS IN FLOATING GARDENS, MEXICO

CLUB AND SOCIETY DOINGS

The American Carnation Society.

The report of the society will be ready for distribution in a short time, and will be sent to paid-up members, to the many who are in arrears or who would like to see this report and are not members, should they send \$2 to Fred Donner, Jr., Lafayette, Ind.

Mrs. A. H. Hews & Co., Cambridge, Mass., offer, for the meeting and exhibition in Boston next January, a cup to the value of \$25 for "the best collection of carnations (from varieties), 25 blooms of each," to be shown in special vases. This prize will be open to all seedlings of named sorts, and with no restrictions as to color.

Any other firm, or grower, who desires to give special premiums for this exhibition, can report them to President Peter Fisher, Ellis, Mass., or to the secretary, ALBERT M. HERR, Lancaster, Pa.

THE LENOX (MASS.) HORTICULTURAL SOCIETY held its regular meeting on April 15, 1905. President R. A. Schmid was in the chair. A cultural commendation was awarded to George H. Thompson, gardener for H. H. Cook, Esq., for carnation Prosperity. Several subjects were discussed during the evening, such as: Roadmaking; what is the best slope and shape for a greenhouse to grow flowers and plants during the Winter? What is the advantage of two-inch pipe over four-inch pipe in heating a greenhouse? And other similar subjects. C. O. D.

ILLINOIS STATE FLORISTS' ASSOCIATION.—Articles of incorporation for the Illinois State Florists' Association were filed in the office of Recorder Geist April 10. The incorporation was licensed by the Secretary of State March 20. The incorporators are: James Hartshorne, Carl Fricke and J. F. Lees and the first board of directors, James Hartshorne, J. C. Vaughan, W. N. Rudd, P. J. Hauswirth and John Willius. The principal office of the association is on East Washington street, Joliet, Ill. Its object is: "For the advancement of the greenhouse industries and for making researches into diseases of flowers, plants and vegetables; for the purpose of finding or developing a remedy for such diseases."

WASHINGTON (D. C.) FLORISTS' CLUB.—President Gude called a special meeting of the Florists' Club on the 14th inst., when considerable business was transacted pertaining chiefly to convention matters. George Cook, superintendent of the trade exhibit, was authorized to make a deposit, and to secure a written guarantee for the use of the National Rifles Hall during convention week. Secretary Bisset announced his intention of resigning owing to press of private business, but upon the earnest solicitation of all the members present, he consented to hold over until the next meeting. The following were elected chairmen of committees: J. R. Freeman, Sr., finance; J. W. Freeman, hotels; E. A. Moseley, entertainment; W. H. Ernst, bowling. M. C.

NEW BEDFORD (MASS.), HORTICULTURAL SOCIETY.—At the last meeting of this society on April 11, carnations were exhibited by some of the members. R. N. Woodhouse showed some Fair Maid which were well done; he also had a vase of Challenger, a scarlet. William Keith staged Enchantress and Mrs. Lawson. James Garthley, gardener to Mr. H. N. Rogers, Fairhaven, also had a nice vase of carnations. Peter Murray read a paper on Gloire de Lorraine begonia, which was followed by a general discussion. It was voted to change the meeting night from Tuesday to the second Monday evening of each month, as most of the members could not attend on the former night. It was decided to have a rose exhibit at the meeting in June, for members only. It is expected to have some noted grower give a talk on the rose at that meeting. HORTICO.

ST. LOUIS FLORISTS' CLUB.—Eighteen members attended the interesting meeting of the Florists' Club, last Thursday afternoon. Most of the growers reported being busy, and could not be present. President Juergel himself was unable to attend, also Vice-President Pilcher, so Ex-President Beneke occupied the chair. Quite a lot of routine work was disposed of, after which the show and building committees reported progress. The constitution committee had a lengthy report to make, as the sections had to be adopted seriatim. Finally, with a few changes, the constitution and by-laws as submitted was adopted. George H. Augermuller, wholesaler, H. F. W. Aue, and C. H. Foreman, of Louisiana, Mo., growers, made applications for membership.

The club's eighteenth anniversary will be celebrated in September. The trustees were instructed to prepare an entertainment for the members and their families. It was decided to accept Frank Weber's invitation to hold the September meeting at his place. The meeting adjourned until May 11, at which time an interesting program will be presented by the trustees. ST. PATRICK.

THE MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY held its regular meeting on April 12. Many gardeners and florists, in addition to regular members, were present. Roses and carnations were there in plenty, and of a very high standard. John E. Haines, Bethlehem, Pa., staged four magnificent vases of carnation John E. Haines, scarlet. It was awarded a certificate of merit. His Star of Bethlehem, yellow, received honorable mention; Imperial, variegated, and a pink seedling, were highly commended. H. Weber & Sons, Oakland, Md., sent a vase of My Maryland, securing a certificate of merit; also a vase of the striped carnation Jessica, which was awarded a certificate of merit. Guttman & Weher's scarlet carnation Victory was brought by Mr. Guttman and shown in splendid form, receiving a certificate of merit. Our home growers were on hand with specials of real merit. Wm. H. Thomas had a vase of mixed carnations, for which he got a cultural commendation. John Heeremans' mixed carnations and Wm. Duckham's vase of Enchantress each receiving a cultural commendation. L. A. Noe staged magnificent vases of American Beauty, Bride and Bridesmaid roses, securing cultural commendations. J. R. Mitchell had vases of Bridesmaid, Bride and Souvenir du President Carnot; cultural commendation. M. McNulty's American Beauty received honorable mention. The judges were: A. Herrington, C. H. Totty and William Duckman. Messrs. Haines and



J. A. VALENTINE, DENVER
President-elect Colorado Society of Floriculturists

Guttman made neat speeches at the request of President Heeremans, and each received a vote of thanks from the society. Robert M. Schultz and Andrew McKendry were proposed for membership. E. R.

BOSTON GARDENERS AND FLORISTS' CLUB.—The regular monthly meeting was held Tuesday night, President Wheeler in the chair and an attendance of about fifty. The secretary for the entertainment committee reported a balance of \$104.69 after paying all expenses connected with the recent banquet to the visiting members of the American Rose Society. The report of Mr. Farquhar, chairman of the committee of awards, was accepted and a new committee appointed to take further action and bring the matter to a definite head at the next meeting. It is to be hoped, too, that this will be accomplished, and settle a matter which has been dragging for months. Two new members were elected. Julius Heurlin was elected a member of the executive committee in place of Harry Wilde, resigned.

A letter was read from A. L. Pierce, vice-president of the A. Hews Company, saying that they would like to have the members of the club visit their pottery on Saturday, the 29th inst. This the executive committee had agreed upon, and a very profitable outing is expected, with a view to learning something more about flower pots than many of the members know.

On the exhibition table was a vase of very fine spikes of Lillium candidum grown by W. N. Craig. Mr. Craig said he had good success with this variety, which they liked much better for decoration purposes than L. Harrisii or longiflorum. He said the reason of so many failures in recent years with this lily was that the bulbs the growers got hold of were largely Turkish grown, and were practically worthless for forcing. The best bulbs of this lily, he said, came from the north of France, and were of a small size. He plants three bulbs in an 8-inch pot. One of the main points to insure success is to leave them out

of doors until they are well frozen. Those exhibited, he said, were taken into the greenhouse about January 10, and grown in a temperature of 52 degrees at night.

A committee was appointed, on the recommendation of Mr. Finlayson, to take some action to try and stop the re-naming of plants of American origin by English growers and vice versa.

Instead of the regular lecture, the main portion of the evening was given up to a general discussion on the following: "In view of the rapid deterioration of roses, carnations and other florists' flowers by propagation from plants grown under forced conditions, would it not be well to consider the matter of procuring stock for forcing from plants grown under natural conditions, such as would obtain further south, where the climate would permit open ground culture all the year round? It would seem that many varieties valuable to the trade are too soon rendered useless, and that hybridization, too, is adversely affected by the above cause, and that a remedy should be found." This question was thoroughly discussed by Messrs. Palmer, Montgomery, Elliott, Stevens, Sim, Finlayson, Wheeler, Craig and others. Mr. Montgomery said that he was astonished to hear of any deterioration with the rose, and stated that roses were stronger and better grown now than they had ever been. To prove his assertions he illustrated with leaves of Bride, showing where now these leaves had seven side leaves or leaflets instead of five as they did when originally grown.

Mr. Elliott said that so far as he was aware instead of deterioration in roses and carnations in recent years there had been a great development and improvement, and that any of the older varieties of twenty-five or thirty years ago could be grown to-day and with such an improvement over what they were in those days that they would seem like different varieties entirely.

Mr. Stevens claimed, as did Mr. Finlayson, that carnations did deteriorate and named a lot of old varieties that were good in their day, but which were not considered of any account to-day.

Mr. Elliott pointed out that this was not deterioration, but was caused by a "bug," which was to be found in this locality, that that "bug" was no other than Peter Fisher, who could be found up in Ellis and who had developed and introduced a race of carnations showing such an improvement over these old varieties that they would not be looked at to-day.

The arguments of the various speakers seemed to prove that this deterioration question was incorrect, and that in almost every case there had been a great development and improvement in the various species. After the discussion the club was entertained to some songs by Frank Connell, a young Brookline gardener. Refreshments were served and a very instructive and enjoyable evening was spent.

The next meeting will be held May 16, when Dr. Jackson is expected to lecture on the peony.

J. W. DUNCAN.

FRUIT UNDER GLASS.

Pot Fruits.

Ten or fifteen years ago the cultivation of pot fruit was limited to a very few places. To-day there is quite a quantity of fruit produced in this manner. While I would not advocate it on a large scale, still this method of culture is worthy of consideration. Pot fruits, provided they are properly handled, will be attractive and interesting from the time trees come into blossom till the fruit is fully developed.

When fruit trees are grown in pots, or tubs, the latter much to be preferred, the roots will keep cooler during the hot Summer months. Pyramids and half standards are the best. The aim should be to keep those trees in a symmetrical form; this must be attended to from the start, otherwise the strong shoots will take away all the nourishment, with the result that the weaker shoots will die; and, in the course of a few years, there will be an ungainly, unattractive tree.

I remember, some six or seven years ago, while visiting the well-known nursery of Thomas Rivers & Son, England, I got an idea of what may be obtained by this mode of culture. Trees were there, twenty years old, perfect pyramids in shape, grown in 18 and 20-inch pots; trees from 10 to 12 feet high and 6 feet through at the bottom, carrying an average of 130 peaches to the tree, splendidly developed fruits. Probably the most cherished and prized tree on the place at that time was a peach tree in a pot, forty-six years old—the first tree that was ever grown in a pot there. Whether or not that tree is alive to-day I cannot say, but at that time it was in good condition and had carried a crop of thirty peaches that season.

As stated, pot trees should be kept in as shapely a form as possible. To accomplish this we should not rely much on the Winter pruning, but rather attend to the Summer pruning, as it is an easier matter to regulate the sap with the young wood. When the trees have started into growth, or the shoots are about two inches in length, and where the shoots are numerous, I should disbud some of them, although it is not necessary to do much disbudding to trees that are confined in this way. Rather resort to pinching the surplus shoots back, say to three leaves. The aim is to form fruit spurs for the following season. Judgment should be used to have enough foliage all over the trees; but avoid crowding. The main shoots should be pinched at the fifth or sixth leaf, and any shoots, during the Summer, that are inclined to take

the lead, should also be pinched. Such treatment keeps the trees in nice shape, and very little Winter pruning is required. This method of treatment is suitable for peaches, nectarines, pears, and plums.

Toward the latter part of Summer, when the fruit is gathered and the trees set outdoors, they are inclined to make a little growth again. This should be allowed to persist. If pinched back, it seems to throw the sap back to the fruit buds, more particularly with the pear than any other fruit.

To be successful other things are just as important, and among these is airing when the weather is so changeable in Spring. While orchard house fruit delights in plenty of fresh air, sudden changes must be avoided. If pears, for instance, receive a severe check, we can say our work is gone for a whole year.

As the fruit begins to swell, thinning should be done by degrees, making the last thinning when the fruits are about the size of walnuts. It depends a great deal on the condition of a tree how much fruit one should allow it to carry. If a tree is extra vigorous, it is benefited by carrying a fairly heavy crop. Take a peach tree in a 15-inch square tub. Such a tree should be capable of carrying 50 good peaches; that is, a well-furnished tree.

Watering and feeding should be carefully looked to. It is a mistake to start feeding until the fruit is swelling nicely. Assuming the trees were potted last Fall (or, at least, they should have been), it takes them some time to root through the new soil; but when the roots begin to come to the surface, feeding is in order. Without doubt, one of the best things is manure water from the cow barn; still, I think, a change of food rather than keeping to one thing entirely is most beneficial. But where I use chemical fertilizer once, I should use farmyard manure twice. Good results can be had with Thompson's manure and Ichthemic guano. Both are high grade fertilizers, but should be used with judgment.

WM. TURNER.

Wall and Trellis Plants.

The list of hardy climbing plants is by no means small, yet it could be extended considerably by an additional resource to worthy subjects, which, though not hardy, would contribute a large share to the making of a pictorial scene during the months of Summer and Autumn. As Winter's iron grip relaxes and Spring's soft touch is felt, we look forward with a pleasure to the opening possibilities of making some original touches to our previous efforts, and the material for doing so is, I think, not lacking, even while we may confine ourselves to things which are strictly hardy.

Taking the clematis family alone, we have five or six beautiful species, perfectly hardy, with a large

number of garden forms, and few hardy climbers afford so good a display of bloom as the clematis, their season of flowering covering three and four months, making altogether a pretty serial. The adaptability of the species, *paniculata*, *vitalba*, *virginiana* and *montana*, for covering, with their jungle growth, any unsightly place and transforming it into a floral charm, is well known; while the less rampant, but more beautiful garden hybrids, as *Jackmani*, *Countess of Onslow*, *Star of India*, *Duchess of York*, *Duchess of*

Edinburgh and numerous others, come more suitable for wall or trellis work.

To plant a subject with the far-reaching abilities of the kudzu vine (*Dolichos japonicus*), for instance, in a space which would be far more suited to the little *Jasminum nudiflorum*, is nearly as bad as to expect the little Alpine plant to thrive and flourish 'neath a scorching sun; so with this thought in view, we should at least come nearer a successful issue, though we all must perforce often do the best we can, rather than the best we know.

Planting too thickly is a danger which should be avoided, for large growing permanent shrubs, such as wisteria, *Cydonia japonica*, magnolia and others, which are likely to remain in the same position for many years, often fail to come up to their maximum of growth and beauty through being cramped for room in root as well as branch. Moreover, it is well to remember that wall and trellis plants often suffer from drought during Summer, and this should be alleviated by a good mulching and occasional watering. Much also may be done to mitigate this evil before planting by deep digging and trenching, and by supplying the soil with a good measure of well rotted manure, for it is the soil that contains a fair percentage of humus which retains its moisture the longest.

The question of aspect plays a very important part in the success of plants, for where one plant may flourish and be happy on a wall with a southern exposure, another would be ruined by the bright sunshine succeeding a frost. Take the ivy (*Hedera helix*) and its many varieties, for example. It is known that ivy plants, which were afforded a northern aspect or a position shielded from the sun's direct rays during Winter, have pulled through a severe time in quite a respectable way; while others, which received the opposite conditions, were but sorry objects in the Spring. This principle, then, stands out prominent, i. e., do not give a southern exposure to those plants which are naturally evergreen, or those which push their flower-buds early in the year.

Plants whose hardiness is not fully assured will find the shelter of a wall the right thing for them, while protection can be more easily given them during Winter.

Abelia rupestris, a pretty Chinese plant, is one which should do all right under these conditions, and its many little pale pink blossoms, produced in late Summer, would be better seen against a wall than in bush form. Others which may be mentioned are: *Fuchsia Riccartoni*, *Cistus laurifolius*, *Ceanothus americanus* and *Viburnum macrocephalum*. The latter should find a place in every collection. *Chimonanthus fragrans* is another suitable wall plant, and is among the very earliest shrubs to flower, keeping the little Winter flowering jasmine company. Many more are mentionable and a judicious planting of those at our command will assure us an unbroken succession of bloom for eight months out of the year.

EDWIN MATTHEWS.



WICKER BASKETS AND WOOD FIBER RIBBON
H. Bayersdorfer & Co., Philadelphia



WICKER BASKETS AND WOOD FIBER RIBBON
H. Bayersdorfer & Co., Philadelphia, Introdurers.

New York.

The Easter Outlook.

This has been a busy week for the plant growers. The weather during the first four days of the week was unusually cold for this time of the year; Monday morning quite a frost occurred in this vicinity, and tender plants left out without protection suffered quite severely. The cold spell has had some beneficial effects, however; particularly to the violet growers did it come in just right, and no doubt saved for Easter a crop of flowers that, if the weather had continued warm, would have been past and gone before Easter arrived.

This late Easter has proved too much for a great many azaleas, and there are rumors already of the available supply of good fresh plants falling short of the demand, so much of the stock being too far advanced to be classed as strictly first-class. Pot lilies are seemingly quite plentiful. Some growers are delivering at 10c. per bloom, and others are charging 12c. To an outsider this seems a great difference in price; but there are lilies and lilies, and when the buyer has the opportunity of seeing both grades, he immediately sees the difference and buys the best.

The show windows of the retailers are a blaze of beauty with plants of all descriptions. Raffia pot covers, together with plain satin ribbon, are being used more freely as accessories than anything else. At Thorley's, lilies are set up in the green raffia baskets, or pot covers, with a bow of green satin ribbon tied just beneath the flowers, the ends allowed to reach almost to the pot. Here are also a number of fine plants of Cattleya Mossiae suspended from the ceiling, every plant carrying a mass of exquisite purple flowers, adding a richness and color to the window that only the aristocratic orchid possesses. There is also a novelty in the form of lily of the valley, growing in a common hanging wire basket. The top, sides and bottom are completely covered with foliage and flowers, and, while somewhat stiff in their general appearance, the baskets as a novelty will no doubt take well.

J. Fleischman has been utilizing some of the golf sets, and chariots drawn by ducklings as flower holders in his windows during the past few days, and they have been a great attraction. Lilies were placed in the golf club-holder, and in the egg-shaped chariots, lily of the valley. All were finished with pale blue ribbon, and the window in its entirety was the best one we have ever seen this dealer display.

News Items.

Flowering plants have been featured in the auction rooms this week to some extent, though there is plenty of hardy stock yet being disposed of under the hammer.

The plant market at Canal and West streets is being held under the canvas tents, and if one wants to see the inner side of the plant industry, let him take a peep under this canvas market about 3 o'clock in the morning.

At the Arbor Day exercises of the public school in Orange, N. J., Frederick W. Kelsey addressed the pupils on the Essex County Park system, the public planting of trees, and forestry. Jaes. Smits, nurseryman of Naarden, Holland, was in this city this week. He has made arrangements with Ralph M. Ward & Co., for the latter to represent his firm in future in the United States and Canada.

Mr. and Mrs. Carl Jurgens, Jr., have been spending a part of their honeymoon in town.

L. E. Thompson, of Troy, N. Y., is in the city, and will become an associate of B. Slinn, wholesale florist, the firm name to be Slinn & Thompson.

The sympathy of the craft will go out to Henry B. McKnight, a life-long resident of Jersey City, in the death of his oldest son, William Steele McKnight, a promising young man 22 years of age. The deceased was very popular, and had a large circle of friends.

Hail Items.

WICHITA, KAN.—A hail storm, on March 27, did considerable damage here. Nearly every florist plant was hit. A large percentage of the sufferers carried hail insurance.

ANCHORAGE, KY.—The Anchorage Rosehouses of Charles Raynor were hit by a hail storm on the 10th inst. Several hundred feet of glass were broken. He was insured in the Florists' Hail Association.

Cincinnati.

News of the Week.

Last Monday we were having thunder showers and hail, with the thermometer at 72; Tuesday we had fires going, a raw wind blowing, with ice in some sections; and at 2 p.m. Tuesday the thermometer registered 50 degrees. But with all this, I do not think lilac or other outdoor flowers are hurt any, and I am quite sure the fruit in this section is all right up to this time.

Orders for Easter are coming in slowly, but I suppose by Saturday night we wholesale men will know what the demand was.

C. S. Ford, of New York, is in the city.

A Visit to Grand Rapids.

The writer spent one day in Grand Rapids, Mich., the past week. Everybody was busy looking after their Easter plants. Crabb & Hunter have a fine lot of multiflorum lilies that will be in; the stems are a little short, but the blooms are extra good. Eli Cross uses every inch of space around his greenhouses; Crimson Rambler, Ulrich Brunner, Magna Charta, and American Beauty roses in plants were fine, but to me the houses of lettuce were a grand sight. Violets were looking good here, also. At the Grand Rapids Violet Company's place I found Mr. Dietrick, the foreman, busy syringing the American Beauty plants; they will have a nice Easter cut. Mr. Hoppe has a new white rose, a sport from Mme. Abel Chateau; not bad, either. He also has a new pink rose, but I was not so favorably impressed with it.

I was surprised to see the magnitude of the business that Henry Smith has on his shoulders—two hundred acres of fruit to look after, to say nothing of the many greenhouses, and he is still building. He employs forty men to conduct his business. Some were spraying for San Jose scale, which, by the way, is very bad in this section; others were busy on asparagus beds; others plowing; some building greenhouses, and others working in the greenhouses. Mr. Smith grows nearly everything needed by a retail store; he employs four young ladies to look after the store end. Mrs. Smith, his mother, a very estimable lady, is kept busy collecting her rents and looking after things in the absence of her son. One day in Grand Rapids is not enough, but was all I could spare this trip.

E. G. GILLETT.

St. Louis.

News Notes.

J. G. Hayden, of Milwaukee, selling florists' boxes for Hummel & Downing Co., called on the trade last week.

On the occasion of the inauguration, for the second term, of Mayor Wells, last Tuesday, a number of large floral designs were sent to the City Hall. A large decoration of plants in the Council Chamber made the place look very attractive. Ostertag Bros. had most of the work.

The restoration of Forest Park is progressing more rapidly than was expected, and Mr. Kessler, the director, says that by the latter part of July the park will be fully restored.

Professor Wm. Trelease has returned from his long trip, and is again in his office at the Missouri Botanical Garden.

Edwin Loydt, a gold fish merchant, opened a flower store at 918 North King's Highway last Thursday.

The St. Louis Palm Company made a full size piano on Monday for the opening of a large piano house. The design was well executed.

Henry Berning and Carl Beyer, who were reported sick last week, are again about and attending to business. Both have fully recovered.

The Plant Growers' Association held a meeting Wednesday night, in Louisiana Hall.

John Burke and family left last week for California. Mr. Burke says he may go into business there. If not, he will return and re-enter the business in St. Louis.

The two teams of the florists' bowlers came together again on Monday night, team No. 2 winning two of the three games played. Beneke was high with 513; R. Meinhardt, second, 485; and Kuehn, third, 484. A special match between these teams will be played next Monday night. ST. PATRICK.

Chicago.

News Items.

Warmer weather prevails. Easter trade has taken fresh impetus and a great volume of business is being done. Stock is in fine condition.

Thursday's trade immense; all stock sold. Prices have held up to quotations. Carnations more plentiful than expected, but not over-abundant. There is a good demand for smilax and asparagus. Lilies are scarce, the demand being greater than expected. Other bulbous stock is selling exceedingly well.

John Holden has sold his store to Julius Ujesen and assumed immediate possession. Mr. Holden contemplates a western trip in the near future.

Vaughan & Sperry have bought Grand Rapids Florists' Association, assuming lease of stand in Flower Growers' Market, giving them much needed space.

Richard Padghan and Henry Muir have started a store at 135 Wabash avenue. ROBERT JOHNSTONE.

Newport, R. I.

News of the Week.

Carl Jurgens, Jr., was married in Washington, D. C., last Monday to Miss Florida Hubbard, of that city. There was a very elaborate display of flowers from the Jurgens greenhouses here, including American Beauty roses, lily of the valley, and other bulbous stock, for the growing of which Mr. Jurgens is noted.

Mr. and Mrs. Henry J. Hass have issued invitations for the marriage of their daughter, Miss Josephine Charlotte, to Mr. Thomas Livingston, at the United Congregational Church, at noon, Wednesday, April 26. Miss Hass has for many years been the greatest help to her father in the Thames street store; in fact, she took full charge of the retail flower business.

S. Nickelsen has commenced advertising "Gentlemen's places taken care of by the day, month or year." There are several gardeners here who do this work, and all are doing well.

Zeigler decorated for the Adair-Griffith wedding last week. Many palms and other foliage plants were employed. The bride's bouquet was of Bride roses in shower form; and the bridesmaids carried pink roses. F. W.

Indianapolis.

News Items.

A girl baby has been born to Mr. and Mrs. Martin Nelson.

The show windows of the Indianapolis retailers are particularly beautiful. John Rieman has his elaborately trimmed with azaleas surrounding a large cross, mounted with doves at each side. A. Wiegand & Sons have their large window filled with artistically arranged Easter plants. Bertermann Bros. Co.'s windows are beautiful with masses of Crimson Rambler roses tied with large bows of yellow ribbon, surrounding an immense cross of lilies and miniature lights. Wm. Billingsley has put forth unusual efforts, and as a result has an unusually nice Easter display.

John Hartje and the Indianapolis Plant & Flower Company are making elaborate preparations for the sale of their new pink carnation Candace. From a retailer's standpoint it certainly has qualities superior to any of the existing varieties.

Visitors: J. A. Peterson, Cincinnati, and George R. Scott, Chicago. I. B.

CANADIAN NEWS

LONDON, ONT.—The Easter wholesale trade is now in full swing, and from present indications no more will be left on hand for retail purposes than can easily be disposed of. Shipping orders for lilies are generally somewhat lighter than the average. Other seasonable lines are about the average, or a little higher. Pelargoniums are very popular, and Gammage & Sons' big stock of splendid plants is moving very rapidly. In cut flowers, for purposes other than church decorations, carnations are the leading favorites, followed by roses. Cut stock of all kinds is plentiful, and the quality is excellent.

The change from almost Summer heat to cool days and frosty nights has checked outdoor bulbous stock, which at one time promised to be in full bloom by Easter. The only novelty to be seen at present is a fine lot of the miniature azalea Chas. Enke, at Gammage & Sons. These are very pretty little plants, and should be very popular.

Washington, D. C.

Work of Gardeners' Association.

The Washington City Gardens' Association has commenced operations for the present season, and according to the report that has been made, there have been more applications for garden plots than the association can possibly supply. This important line of work was set on foot last year in this city, the object being to encourage the utilization of the vacant lots surrounding the city for the growing of produce. Working plans for the gardens are developed and put into operation under the superintendence of a practical gardener. Professor B. T. Galloway, of the Department of Agriculture, who is a member of the board of managers, states that there is no difficulty in securing land, owners of vacant lots being glad to have them kept clear of rubbish and weeds. The rules governing the gardens are few. An applicant is allowed a garden of from one-fourth to half an acre, on condition that he will cultivate it well throughout the season. A failure to observe the rules causes him to forfeit his land. In regard to the supplies for the garden, the association furnishes the seed, fertilizer, and plows the land, and lends or sells the tools at cost. Last year about eighty lots were cultivated, each averaging about one-eighth of an acre. A number of the gardeners produced a sufficient supply of potatoes for their families during the Winter. This system is modeled after that in operation in Philadelphia. M. C.

BALTIMORE.—John Cook is sick in bed with an attack of la grippe.

The American Carnation

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History and Development of the Carnation.—The Carnation in America.—The Commercial Importance of the Carnation Industry.—The American Carnation Society.—Use of Carnations as a Decorative Flower.—General Greenhouse Culture.—Soils.—Manure and Fertilizers.—Propagation and Shipping of Young Stock.—Treatment of Young Stock Preparatory to Planting Out.—Field Culture.—Lifting and Planting Carnations from the Field.—Treatment After Benching.—Picking, Packing and Shipping Carnation Flowers.—Insects and Preventives.—Diseases and Injuries.—Packing and Shipping Field-Grown Plants.—Forcing Houses for Carnations.—Bench Construction.—Sub-Irrigation.—Heating Carnation Houses.—Carnations for Summer Blooming.—Bedding and Hardy Carnations.—Carnations for Field Culture.—Raising Carnations from Seed.—Cross-breeding and Fertilizing.—Varieties.—Sports and Variations.—The Ideal Carnation.—Traits and Peculiarities.—Various Classifications of the Carnation.—List of Varieties for Different Localities.—The Future of the Carnation.—Its Commercial Aspect and Prices.—Who Shall Engage in Carnation Growing?—Does It Pay to Do Things Well?—Calendar of Operations.—Carnations in California, Canada, in the West, the East, the South.

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Review of the Market

NEW YORK.—Business in cut flowers has shown a general, gradual improvement as the week has progressed, and now as we get close to Easter we find prices on nearly every grade of flowers assuming holiday proportions. The few cool days experienced have been of decided advantage to some things, and there is every indication that there will be a full supply to meet whatever demand a busy Easter might bring. American Beauty roses have advanced steadily from day to day; 35c each was a quoted figure for Thursday for some of them, and it is expected in some quarters that 50c each will be realized before Sunday.

Bride and Bridesmaid have also made material strides toward better values; 10c and 12c has already been obtained for specials, and another advance is looked for within the next day or two.

Violets became scarce in the beginning of the week, and they jumped to 75c and \$1 per 100. It is now believed that there will be a fair supply of violets for Easter owing to the recent cool weather.

The stock coming in now is certainly of better quality than has been usual for several weeks past, and if there is a supply of good flowers for Sunday, they will no doubt sell at prices far in advance of those quoted for to-day.

Carnations are not behind in the struggle for higher values, and prices on these have doubled up all around. Lilies are yet going at 6c and 8c each, a few only reaching the 10c mark. Lily of the valley is a little firmer, and narcissi have made progress toward better prices. Cattleyas are moving fairly well, and values are on the increase. Smilax is a good thing just now, almost fetching fancy prices. Adiantum and asparagus are also in good demand. Trailing arbutus is much in evidence, but does not seem to go with any snap. Gardenias are quite plentiful, and these will no doubt go well for Easter, though they have not been selling satisfactorily for some time.

PHILADELPHIA.—There is every indication of a very good Easter business. The plant growers are already well sold out; in fact, azaleas of any size have been gone for two weeks. We had three cold nights in the early part of this week, when the thermometer ranged from 24 to 30 degrees in different locations around here, and it was cool all day following, so that some plants are rather more backward than wanted, as everyone was holding them as cool as possible, anticipating warm days. The only plants seen too far advanced are some pot roses and some lilies.

Up to Wednesday afternoon cut flowers are scarce. Carnations are in brisk demand, and prices have advanced 100 per cent., choice stock being offered as high as \$3 per 100. American Beauty roses have also advanced; \$5 per dozen is now being asked for the best. On Monday last evidently some growers did not know how to figure the market, as choice stock of American Beauty was sold at from \$2.50 to \$4 per dozen.

All the wholesale houses are doing a good shipping trade; in fact, on Wednesday they were unable to fill all orders. Indications point to a busy time next week; numerous weddings and social affairs are booked. DAVID RUST.

BOSTON.—There has been slight advance in prices so far this week. There is no scarcity of stock whatever. In roses American Beauty remain in practically the same state as last week. Bride and Bridesmaid are moving somewhat more freely; the quality of all these is all that can be desired.

Carnations show more activity, especially in colored varieties. White sorts have had little call the past week, nor are they likely to be much in demand for Easter. Lilies are now plentiful and of first-class quality; in this respect there is a decided improvement over those seen last year. Bulbous stock has been somewhat firmer, although there is little advance in price. Lily of the valley remains firm; it is of excellent quality. Sweet peas are very fine. Violets, which it was feared would be scarce, are yet to be had in sufficient numbers to supply all demands, and many growers have a reserve stock for the end of this week. J. W. D.

CHICAGO.—Trade during the past week has been very good. Shipping business was all that could have been desired. On Saturday last Easter prices could be said to prevail; the supply had shortened up, especially of carnations. Roses were not so scarce; in fact, they were rather plentiful. During the fore part of the present week prices took a decided advance. The supply was short and this will no doubt continue until after Easter. From appearances a shortage in some lines is sure to prevail, being most noticeable in carnations. Bride and Bridesmaid roses will no doubt be in sufficient quantities to meet all demands, especially in the medium grades. First-class stock will not be so plentiful—these latter are high priced; in fact, commanding nearly as high values as during Christmas week.

Plants in bloom will cut quite a figure here. Crimson Rambler, American Beauty,

hydrangeas, tulips in pots and pans, azaleas, lilac, hyacinths and lilies about constitute all the flowering plants that will be used. Lilies are better than ever before. Other flowering stock is also in fine condition and large quantities are being sold. Prices on these are the same as in former years. Boston ferns are being disposed of in large numbers, also Asparagus plumosus nanus and A. Sprengeri in pots. Nothing is heard of in the way of novelties.

The supply of American Beauty roses will be ample to meet all demands; some of the larger growers of these will have a fine crop at that time. Extra good stock will command a good price, as also will the medium grades. Mme. Abel Chatenay will be in good shape, never having been in better condition than at the present time. Good flowers are coming in from nearly all the growers of this popular rose. Liberty will be in good crop and of exceptionally good quality.

Carnations were in short supply the fore part of the week, but it is expected the supply will be ample to meet all demands, as without doubt growers are holding back these to a good extent. Violets at present writing are very scarce; and whether the supply will increase later on in the week is very hard to say. Those that will come in will be poor in quality, the season being too far advanced for them to be of much account.

Outdoor grown bulbous stock is accumulating on the market and is sold very cheap. Home grown tulips are not overplentiful, bringing a good price. Sweet peas will not be overplentiful, as but few are now being received. Smilax and asparagus remain at about the same prices as quoted last week. R. J.

INDIANAPOLIS.—As usual, just before a large holiday, business is very quiet. A small quantity of funeral work is on hand, and some orders are being taken for Saturday and Sunday. Stock is accumulating rapidly, and all indications point to a plentiful supply for Easter. The cold weather of the past few days has been a bore to the growers, and much bulbous stock will be on hand that was not expected to be in good condition the coming Saturday. The local firms are expecting and preparing for an unusually busy time. Prices have advanced but little. Select Bridesmaid, Bride and Golden Gate wholesale at \$3 per 100. Liberty are in fine condition and bring \$3 to \$12 per 100. American Beauty are more reasonable than in former years; select 36-inch stems sell at \$3 per dozen; 24 to 30-inch stems, at \$2 to \$2.50, and 15 to 20-inch at \$1.50 per dozen.

Fancy carnations are selling at \$3.50 per 100; medium grades are plentiful at \$2.50 to \$3 per 100; 75c. to \$1.50 a dozen are the customary retail Easter prices.

There are enough lilies to supply all demands, but the quality is hardly up to the standard. 12 1/2 c. wholesale and 25c. retail (per flower or bud) is asked for them. Few, if any, violets are in the market. Select sweet peas are plentiful at \$1 per 100. Lily of the valley is selling well at \$4 per 100.

With the exception of tulips, hyacinths daffodils, plants are in excellent condition for so late a date, and wholesalers are reporting a satisfactory sale. Good azaleas are in demand at fancy prices. Crimson Rambler roses are in excellent condition, but the supply is limited.

The growers at Tomlinson Hall Market have a heavy supply in reserve for Saturday, and record-breaking sales are anticipated. I. B.

PITTSBURG.—Business the past week has been fair. For Palm Sunday quite a lot of flowers were sold. The supply continues ample, with prices somewhat advanced. Lilies seem abundant, also callas. For Easter prices from 10c. up is about the

figure. There are plenty of roses and carnations. Bulbous stock is coming in heavily, and the supply will likely hold over Easter. Sweet peas are in fair demand. Violets seem scarce.

Plant trade is lively, and more and better stock is offered this year than last. Azaleas are in fine condition. Genistas, hydrangeas and Crimson Rambler roses take the lead. There is lots of bulbous stock in pots and pans. The outlook is for a good business for Easter; orders are coming in well; and if the weather is at all good a big trade is expected on Saturday.

Joe Jones opened up a flower stand on Liberty street principally for the sale of plants for the next few months. The location is a good one, with a large store-room. E. C. R.

NEW BEDFORD, MASS.—The past week has been a very good one, so far as the cut flower trade is concerned, but the weather has been anything but pleasant. On the 17th, snow fell for a few minutes in this section. Funeral trade has been good, with a scarcity of flowers. There will be an ample supply of stock for Easter, at good prices. H.

ST. LOUIS.—Trade conditions of the past week were about the same as last reported, only that funeral work was more plentiful and the plant trade improving greatly. Some extensive preparations are being made by the florists for Easter. There will be plenty of extra fine plants and cut stock in all lines; prices have already stiffened on all grades. On Monday and to-day, Tuesday, stock was coming in rather slowly, and we hope that the growers will not hold it back for later in the week with the expectations of a large price.

The following list is what the commission men say stock is going to cost (beginning Thursday) for Easter: American Beauty, fancy, \$5 to \$6; extra, \$3 to \$4; medium, \$1.50 to \$2, and shorts, 75c. to \$1 per dozen. Others in the Bride and Bridesmaid class will run on an average \$3 for choice, first \$6 and shorts \$4 per 100. Carnations, fancy, will go as high as \$5; firsts \$3 and \$4, and common \$2 per 100. Lily of the valley, \$3 and \$4; Paper White narcissus and Roman hyacinths, \$3; callas and Harrisii lilies, \$12.50 to \$15 per 100; tulips, \$3 to \$5; Dutch hyacinths, \$4 to \$6; sweet peas, 50c. to 75c.; Von Sion, \$3 per 100; smilax, 15c. per string. All other greens remain the same. ST. PATRICK.

WASHINGTON, D. C.—There has been a slight improvement in business this week. The past few days have been decidedly cooler, which has had the effect of retarding stock somewhat, and will improve it very materially. Roses promise to be scarce, especially American Beauty, which have brought from \$9 to \$12 per dozen. Bride, Bridesmaid, Ivory, Golden Gate, Souvenir du President Carnot and Kaiserin Augusta Victoria realize from \$1.50 to \$3, while Liberty has brought \$2 to \$3 per dozen. The local supply of carnations is limited, at from 50c. to \$1 per dozen. Lily of the valley sells at \$1.50 to \$2 per dozen. The supply of local-grown violets is exhausted. New York stock brings 75c. to \$1.25 per 100; Lillium Harrisii, 25c. each flower; lilac, \$2 to \$3; jonquils, 35c. to 50c. per dozen; sweet peas, 25c. to 50c. per bunch. Cherry blossoms have played a very prominent part in the decoration of store windows this week. M. C.

BUFFALO.—Indications would point to good conditions for Easter, but the weather of the last week or more has been that Wintry in character as to make dealers timid about placing orders. Store men mention orders booking a bit slowly, though, buyers show liberality as regards fair prices. Some presage a scarcity for the demand in carnations. Roses promise to be ample for the calls; and violets are being looked up. The quality of the blooms promises good. Owing to the recent cold, some lots of blooming stock will not get into expected condition for sales. At Kasting's wholesale stand, the roomy

rear parts of the ground floor are being occupied with a big lot of lilies, both plants and cut stock, sufficient to fill many orders. VIII.

PROVIDENCE, R. I.—Prices on cut flowers for Easter are not quoted by local growers as yet, but we do not anticipate any surprising increase. The one problem is the department stores selling Easter plants at quotations away below the trade price. Good lilies in pots are quoted, wholesale, at 10c. to 12c. per bloom, but these stores are retailing lilies at 12c. per bloom. This, of course, is creating a good deal of worry; but there is no way of meeting this kind of competition at present, and the store florists must be content to handle top-grade stock at only a fair profit. C. S. MACNAIR.

NEWPORT, R. I.—The weather has turned sharply cold for so late in the month; for several nights ice quite thick has formed, and as a result trade has slackened for the moment. Our florists are now booking orders for lilies and other Easter stock and present indications point to a very satisfactory trade, in which plants will far outsell the cut flowers. In fact, plants have steadily gained in favor here for Easter year by year. It is too early to say much about prices. F. W.

CATALOGUES RECEIVED.

NIMMO & BLAIR, Dunedin, New Zealand.—Illustrated Catalogue of Seeds, Plants, Bulbs, Supplies, etc.

SHATEMUC NURSERIES, Barrytown, N. Y.—Catalogue of Plants for the Garden Border, etc.

WEBSTER FLORAL COMPANY, Hamilton, Ont.—Catalogue of "Canadian Plants for Canadian People." Illustrated.

ISAAC HICKS & SON, Westbury Station, L. L. N. Y.—Illustrated List of Plants for a Garden of Old-Fashioned Hardy Flowers."

JULIUS ROEHR'S COMPANY, Rutherford, N. J.—Illustrated Catalogue of Orchids, Palms, Ferns, Azaleas, Evergreens, etc.

H. DEN OUDEN & SON, Boskoop, Holland.—Wholesale Trade List of Nursery Stock, Roses, Bulbs, Rock Plants, etc.

JAC'S SMITS, LTD., Naarden, Holland; American address care of Maltus & Ware, 136 Water street, New York.—Catalogue of Pot-Grown Lilies, Pot-Grown Plants for Forcing Purposes, Rhododendrons, Roses, Azaleas, Peonies, Evergreens, etc.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

WOODHULL, N. Y.—Clare Colvin will build a greenhouse here and engage in the florist business.

WORCESTER, MASS.—The Worcester Conservatories have opened a retail flower store at 400 Main street.

MONTECITO, CAL.—Oscar Keezer has purchased ground here, and will establish a nursery and greenhouse business.

WEST SENECA, N. Y.—John Avery has opened a flower stand at the corner of Ridge Road and South Park avenue.

TERRE HAUTE, IND.—Fred Wunker & Sons have leased the ground on East Wabash avenue opposite the Highland Lawn Cemetery, and will move their greenhouses there.

PAWTUCKET, R. I.—The business of the Rhode Island Greenhouse Company has been purchased by James Barclay, florist, Herkimer, N. Y. The greenhouses cover 40,000 square feet.

ATLANTIC CITY, N. J.—Congdon & Landolt have opened a florist establishment at 1315 Pacific avenue. Mr. Landolt, who was formerly employed in Baltimore and New York, states that the outlook for success is very bright, and that indications point to brisk Easter trade.

We can't do much with a "Just front" grower

who knows that all tobacco powder is the same cigar and tobacco store trash he gets at his cigar store or from his seed man and JUST WON'T ask for our booklet, that is full of the sayings of his fellows, that read: The H. A. S. Co.—Please send 200 lbs. FUMIGATING KIND TOBACCO POWDER; best thing I have struck to date; got some from a neighbor. A. G. LAKE, Wellesley Hills, Mass. The H. A. S. Co.—Send 200 lbs. BLACK STUFF FINE for dating; the like in action we have not yet seen. KIMMERLE & MINDL, Newark, N. J. He JUST WON'T believe that 95 per cent. of all the growers that send for our free five-pound trial sample bags of THE FUMIGATING KIND (for fumigating) and THE BLACK STUFF FINE (for sprinkling), have purchased not once, but again and again, after the trial. WHY BE A JUST WON'T when you can have these free five-pound trial sample bags; yes, two of them if one won't do. All we ask is for you to pay the express charge on them. Ask now. Don't be a "JUST WON'T."

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Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000
Kalb.....	2.00	White Mayflower.....	\$2.00	Oobolt, new.....	\$3.00	Monrovia.....	\$2.00	Wm. Thirkell, new.....	\$3.00
Robinson.....	2.00	Ivory.....	2.00	J. A. Baltour, new.....	3.00	Yellow Eaton.....	2.50	W. T. Pickett, new.....	3.00
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Eaton.....	2.50	Pacific.....	2.00	Lavender Queen.....	2.00	Yellow Jones.....	2.00	Omega.....	2.00
White Bonaffon.....	2.00	Pink Ivory.....	2.00	Richardson.....	2.00	Yellow Mayflower.....	2.00	Oakland.....	2.50
Snow Queen.....	2.00	M. Newell.....	2.00	Murdock.....	2.00	Golden Beauty.....	2.00	M. Paul Lobbie.....	2.50
Harry Plumridge, new.....	3.00	J. K. Shaw.....	2.00	Vivian-Morel.....	2.00	Mourner.....	2.00	Black Hawk.....	2.50
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			25.00
			12.50
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Per 100	Per 1000	Per 100	Per 1000	Per 100	Per 1000
Estelle.....	2.50	Flora Hill.....	1.00	Harlowarden.....	2.00
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	15.00		9.00		
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Per 100	Per 1000	Per 100	Per 1000
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PERRY MONARCH, white and yellow; WILLOWBROOK, POLLY ROSE, PACIFIC, R. HALLIDAY, IVORY, ROBINSON, NELLIE POCKETT, BONNAFFON, YELLIE EATON, LINCOLN, MAUD DEAN, MERRY CHRISTMAS, \$1.50 per 100; \$12.50 per 1000.

Cash with order, please.

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Transplanted cuttings from soil, \$2.00 per 100. Rooted cuttings from sand, \$1.50 per 100.

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Queen Louise, F. Joast, Challenger, \$1.50 per 100, \$12.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Prosperity, Fair Maid, \$2.00 per 100, \$15.00 per 1000; Harry Penn, Harlowarden, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.00 per 100, \$25.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000, 250 at 1000 rate.

ROOTED COLEUS CUTTINGS

Golden Boder, Firebrand, Verschaftell and mixed colors, 75c. per 100, \$6.00 per 1000.

ROSES

2 1/2 in. pots, \$3.00 per 100, \$25.00 per 1000. Bride, Bridesmaid, Ivory and Golden Gate.

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On imported English Manetti Stock, nothing but flowering wood used. Bride and Bridesmaid, Golden Gate, \$10.00 per 100; \$100.00 per 1000. Liberty, \$12.00 per 100; \$120.00 per 1000.

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BEST COMMERCIAL VARIETIES		Per 100
Strong Plants, 2 1/2 in.....		\$2.00
Vinea Var., R. C., 1 in.; 2 1/2 in.....		2.50
Violet, P. faces Wales, R. O.....		1.00
Carnation, R. C.....		\$1.50 to 3.00

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Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus

Strong plants in 2-in. pots, from seed sown las August, \$3.50 per 100.
Aspidium Tennesseense, large bushy plants, in 3-in. pots, 8c.
20,000 Cyrtium Falcatum, in 2-in. pots, ready about May 10th. Cash please.

R. G. HANFORD, Norwalk, Conn.
Mention the Florists' Exchange when writing.

ARAUCARIA EXCELSA

From \$1.25 to \$2.00 each.
Kentia Belmoreana, from 50c. to \$5.00 each. Rubber Plants, from \$6.00 per doz. up. Lilies, 12 1/2 cts. per bud or blossom.
Azaleas, best varieties, in bud and bloom, from \$9.00 per doz. up.
Spiraea, from \$4.00 per doz. up, fine plants.

WM. A. BOCK, No. Cambridge, Mass.
Mention the Florists' Exchange when writing.

4 Ferns You Will Want

Scottia, 6 in., \$1.00 each; 4 in., 50c. Boston, 4 in., \$12.00 per 100; 2 1/2 in., strong, \$4.00 per 100. Pieroni, 4 in., 20c. each; 3 in., 10c. each. Anna Foster, 3 in., 10c. each.

ASPARAGUS SPRENGERI, 4 in., fine, 8c. Cash please.

BENJAMIN CONNELL, West Grove, Pa.
Mention the Florists' Exchange when writing.

BOSTON FERNS NICE YOUNG STOCK

\$10.00 per 1000.

ZAMIA INTEGRIFOLIA

\$12.00 per 1000.

Shipped by freight. Send money order on Little River, Fla.

SOAR BROS. Little River, Fla.
Mention the Florists' Exchange when writing.

ORCHIDS

We have just received in superb condition, our first shipment of Cattleya Labiata. Write for prices. We also recommend our large stock of well-grown, established Orchids.

Write for catalogue.
LAGER & HURRELL, Summit, N. J.
Orchid Growers and Importers
Mention the Florists' Exchange when writing.

JOSEPH HEACOCK WYNCOTE PA.

Grower of

KENTIA BELMOREANA AND KENTIA FORSTERIANA

Mention the Florists' Exchange when writing.

EXTRA FINE JARDINIERE FERNS

3 inch \$3.00 per 100, 3 1/2 inch, \$4.00 per 100. 1000 feet 4-in. Cast Iron Pipe as good as new, 7 cents per foot.

J. W. HOWARD, 330 B'way, Somerville, Mass.
Mention the Florists' Exchange when writing.

Cyclamen.

One of the leading features in greenhouse-plant culture and market-plant traffic is to-day—and has always been—the cyclamen, the alpine violet of the lay gardener. Habit, structure and coloration of foliage and bloom and general appearance make it the ideal market plant; and of all the plants raised and sold throughout the entire year, none equals the cyclamen as a subject for the dwelling house or living room.

Cyclamen persicum giganteum is of all the varieties the one most favored by growers as the least difficult to raise to perfection from seed. And of this variety the seeds are offered by all the firms who deal in seeds, but there is so great a difference as to quality in the various strains that any grower who depends annually for his supply of cyclamen seeds on his purchases from unknown or in any way doubtful sources, runs a pretty good chance of laying out his money and a full year's time, care and labor for a measly lot of plants, which, when he compares them with those of other florists, do more in stunting his pride as a grower than any other failure. In the course of time he learns that not all strains of cyclamen seeds are what they are cracked up to be, and that to deal with reputable, reliable firms only is, after all, the best policy. The grower is fairly sure of success in this culture if he takes the trouble of saving his own seed from carefully selected stock set aside for this purpose. Our most successful plantmen have followed this course for years.

The seeds may be sown at almost any time of the year, but will give best results if sown just after they have attained their greatest size and have become fully ripe. The proper time for commercial florists to sow the seeds of Cyclamen persicum is from the end of July to the beginning of October. I have found that the sowings made in the first half of September proved most satisfactory. As a suitable soil for the germination of the seeds very sandy leaf-mold alone is to be preferred to any other mixture, or to anything heavier or richer. The seed pans should be placed in a cool and heavily shaded frame. (Remember that this is meant for the beginning of September, and only for the seed boxes.) The seeds must be kept moderately moist, not wet, and as an aid to this end a thin layer of finely broken up or chopped sphagnum moss on the top of the seeds will do good service.

FERNS, COCOS and KENTIAS

I make a specialty of Small Ferns for Jardinieres, etc. A good variety of the right kinds, 2 1/2 in., \$3.00 per 100. Cocos and Kentias, 2 in. for centers, 10c. ea.; \$3.00 per 100. Boston and Pierson Ferns, 2 1/2 in., \$4.00 per 100. Dracena Indivisa, 6 in., 35c. and 50c. ea.; 4 in., 10c. Geranium Mrs. Salter, 2 1/2 in., \$2.00 per 100.

H. WESTON, HEMPSTEAD, N. Y.
Mention the Florists' Exchange when writing.

Cyclamen Plants Seed of only selected flowers and well built stock. No one better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000.
C. WINTERLICH, DEFIANCE, OHIO
 Mention the Florists' Exchange when writing.

EMERSON C. McFADDEN
 Wholesale Florist and Grower
 Specialties
ASPARAGUS-SMILAX-ROSES
 Tel. 28 A SHORT HILLS, N. J.
 Mention the Florists' Exchange when writing.

Boston Ferns
 Extra fine stock, cut from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100. Kentias, Rubbers, Asparagus Plumosus Name. Cash or references, please.
L. H. FOSTER, 45 King St. DORCHESTER, MASS.
 Mention the Florists' Exchange when writing.

SCOTTII
 The Most Graceful Nephrolepis Known.
 Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced.
 Consult any grower who has bought Scottii and he will tell you that it is far ahead of the Boston as that variety is ahead of all other introductions.
 See my ad. on page 471 of issue of April 8 for full particulars.
JOHN SCOTT, Brooklyn, N. Y.
 1000 10th St., BROOKLYN, N. Y.
 BRANCH:
 E. 45th St. and Rutland Road, Flatbush.
 TELEPHONE, 1207 WILLIAMSBURG.
 Mention the Florists' Exchange when writing.

A Few Good Things You Want
 Kentias. As fine a lot of single and made up plants as ever grown, in 4 in., 5 in., 6 in., 7 in. and 8 in. pots, at 20c, 35c, 75c, \$1.50 to \$2.00 each.
 Draecena Indivisa, 3, 4 and 5 in., \$5.00, \$10.00 and \$25.00 per 100.
 Asparagus Plumosus, 2 and 3 in., \$4.00 and \$8.00 per 100.
 Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.
 Geraniums, Jean Vland, S. A. Nutt, Castellane, John Doyle, Perkins, Mme. Sallerod. Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100.
 Vinca Var., 2 in., \$2.00 per 100.
 Gladiolus Bulbs, fine mixture, 75c. per 100, \$8.00 per 1000.
 German Ivy, 2 in., \$2.50 per 100.
 Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia, Cigar Plant, 2 in. pots, \$2.00 per 100.
 Cash with order

GEO. M. EMMANS, Newton, N. J.
 Mention the Florists' Exchange when writing.

PALMS AND FERNS
 Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; Piersoni and Boston Ferns, 3 in., \$5.00 per 100; 7 in., \$1.00 each, Larger plants from \$1.50 upward. Ferns in variety, from 2 1/2 in. pots, \$2.00 per 100; \$25.00 per 1000. Lantana Borbonica, 3 in. pots, \$6.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.00 up.
 Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$1.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Arecia Lutescens, 4 in., \$20.00; 5 in., \$50.00; 6 in., \$1.00 each. Larger plants, from \$1.50 up.
 Arecaria Excelsa, 4 in., 45c.; \$6.00 per doz.; 5 in., \$1.00. Larger plants from \$1.50 up. Arecaria Compacta, from \$1.00 to \$5.00 each. Pandanus Urtica, 6 in. pots, 50c. Draecena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Reclinata, 6 in. pots, \$35.00 per 100; \$4.50 per doz.; 8 in. pots, \$3.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each.
 Plants in fine condition.
JOHN BADER, Troy Hill, Allegheny City, Pa.
 Mention the Florists' Exchange when writing.

FERNs Our Specialty
 We have just completed a new 20,000 sq. ft. greenhouse range, specially built for the growing of Ferns, and in the future all orders, regardless of quantity, will be filled with the best stock in the market, at the lowest prices.

CIBOTIUM SCHIEDEI
 The Most Magnificent Tree Fern in Cultivation.
 Extra Large Specimens.
 8 in. pots..... 2.75 each; 32.00 per doz.
 7 in. pots..... 1.75 each; 20.00 per doz.
 Adiantum Cuneatum, 4 in..... \$15.00 per 100
ANDERSON & CHRISTENSEN, Short Hills, N. J.
 Telephone Call 14 F.
 Mention the Florists' Exchange when writing.

In from four to eight weeks the plants will be of a size to justify, or rather to demand a pricking off or a transplanting into other boxes containing the same kind of light, porous soil. The cooler weather of the Autumn will, from now on, promote a rapid, healthy growth and shading need only occasionally be resorted to as a protection against the hot rays of the noon-day sun. The watering of the young plants requires care and judgment. They should never dry out clear through; nor should they ever be in a soaked condition. Many a promising lot of seedlings was sent to Hades through the sins of commission or omission of a careless, thoughtless workman who believed himself a gardener.
 Mistakes as to shading are also frequently made. Cyclamen plants, young or full-grown, need no heavy shade from early in the morning until late at night, or on cloudy days. All they want in this respect is a light covering with lath frames, or easily handled, light muslin frames, at the hours when the sun is hottest and the air killing dry; and, besides this, a regular, even moisture at their roots and an abundance of pure, fresh, freely circulating air.
 The young plants are carried through the Winter on a greenhouse bench, affording all the light possible, and in a temperature of about 55 degrees. A transplanting becomes necessary whenever it is found that the roots are beginning to bend on the inner side of the pot, no matter whether the top growth has kept pace with the rapid root formation or hardly shows much real development, which latter is often the case during the dark days of the waning year.
 In the Spring, after all danger from untoward spells of weather is past, the plants again take up their quarters in outside frames, now needing considerably more room. In August, the final shift into the selling size pots is given. I prefer, in this culture, to use new pots at every transplanting, and for the last shift a little heavier soil, mixed with a small quantity of soot, obtained from the cleaning of chimneys.
 The first few premature and stray flower buds must not be allowed to develop into open flowers, and should be pinched out until a uniformly distributed set of buds has formed. From the time that these buds are plainly visible to the time when the plant is in full bloom, a period of from eight to ten weeks is required. As soon as the flowers show color, no more water should touch them, while the foliage should still be regularly sprinkled. Fumigation must also be discontinued at this time, lest the flowers be ruined. It is a good plan to plunge the pots into a proportionally deep layer of fresh tobacco stems, which will serve several good purposes.
 Old plants of cyclamen that have done blooming should be watered only just enough now to keep the roots from shriveling. In the month of August the old soil is to be shaken from the roots, and the plants are repotted into new pots and into new earth. In doing this, the base of the corm should only just be sunk below the surface of the soil and nearly the entire body of the corm be above ground. A partial rest from early Spring until August is needful in the case of old plants, but young seedlings should be held at as rapid and uninterrupted a growing pace as possible, from the germination of the seed until the plants are fully developed and ready to bloom.
 FRED. W. TIMME.

ASSORTED FERNS
 4 inch, suitable for large Jardinieres and basket work, in 10 good varieties, \$15.00 per 100.
 Asparagus Sprengeri, 4 in..... 12.00 per 100

ASSORTED FERNS FOR JARDINIERS
 In all the best varieties, fine bushy stock from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000 500 at 1000 rats.

Triomphe de Lorraine
 Best Bedding Begonia in the market, out of 3 in. pots, \$5.00 per 100. Colors, all leading varieties. \$2.00 per 100. Alternanthera, red and yellow, \$2.00 per 100.
P. WAGNER, Troy Avenue and Midwood Street, Brooklyn, N. Y.
 Mention the Florists' Exchange when writing.

CHEAP
 Draecena Indivisa, 4 in..... Per 100 \$7.00
 Feverfew, 4 in..... 6.00
 Asparagus Plumosus, 3 1/2 in..... 6.00
 " Sprengeri, 3 1/2 in..... 0.00
W. T. NEAL, East St., Pittsfield, Mass.
 Mention the Florists' Exchange when writing.

GERANIUMS
 BEST standard varieties, in bud and bloom, for immediate sale; stocky plants; state colors wanted; from 4 in. pots, \$3.00 per 100, \$75.00 per 1000. Salvia (Scarlet Sage), low growing, everblooming variety; fine plants in bloom for immediate sale, same price as Geraniums. Cash with order.
Baur Floral Co., Erie, Penn.
 Mention the Florists' Exchange when writing.

GERANIUMS
 All rooted stock sold for this month with the exception of S. A. Nutt.
PETER BROWN, Lancaster, Pa.
 Mention the Florists' Exchange when writing.

CYCLAMEN
Splendens Giganteum Hybrids
 Finest strain in the world, in 6 true colors twice transplanted, from date, well-grown plants, \$3.00 per 100; \$25.00 per 1000. From 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.
ASPARAGUS Plumosus Nanus, well-grown plants from 2 1/2 in. pots, \$3.00 per 100; from 3 in. pots, \$5.00 per 100; from 3 1/2 in. pots, \$8.00 per 100.
CANNAS All started, from sandbed, 2-3 eyes standard varieties, true to name, \$2.50 per 100; \$20.00 per 1000.
GERANIUMS Standard varieties, true to name, first-class grown stock, from 3 1/2 in. pots, \$8.00 per 100; from 4 in. pots, \$7.00 per 100.
 Satisfaction Guaranteed
PAUL MADER, East Stroudsburg, Pa.
 Mention the Florists' Exchange when writing.

Vegetable, Greenhouse and Bedding Plants
VEGETABLE PLANTS
CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per doz.; \$1.25 per 1000.
PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.
LETTUCE Big Boston, Boston Market and Grand Rapids, 25 cts. per 100; \$1.00 per 1000.
TOMATOES Earlians, Chalk's Early Jewel, Dwarf Stone, Dwarf Champion, etc., 30 cts., per 100; \$2.00 per 1000. Acme, Beauty, Stone, Perfection, etc., 25 cts. per 100; \$1.60 per 1000. Ready for transplanting.
EGG PLANT New York Improved, 25c. per 100; \$2.00 per 1000.
PEPPERS Bull Nose, Sweet Mountain, 25c. per 100; \$2.00 per 1000.
Miscellaneous Plants
 2 1/2-in. stock in A1 condition.
 Per 100 1000
 Ageratum, Dwarf White and Stella Gurnsey..... 40c. per doz.; \$2.00 \$17.50
 Alyssum, Dwarf White and Giant Double..... 40c. per doz.; 2.00 17.50
 Alternanthera, red and yellow..... 2.00 16.00
 Aquilegia (Columbine), single mix'd 3.00
 Cannas, 10 var. 8 in. pots..... 4.00
 Canterbury Bell, single and double blue..... 1.50
 Carnations, Dwarf hardy mixed..... 1.50 12.50
 " Marguerite..... 1.50 12.50
 Centaurea, gymnocarpa..... 1.50
 Coleus. In good variety..... 2.00 15.00
 Dahlia plants, in var..... 2.00
 Delphinium Formosum..... 1.50 12.50
 Digitalis (Fox Glove), fine mixed, \$1.50 \$12.50
 Geraniums, Rose, Lemon, Mrs. Taylor and Fernitiella odorata..... 2.00
 Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List

COLEUS
 Rooted Cuttings
 Verschaffelti, Fire Brand, Golden Queen, Beckwith's Gem, Lord Palmerston, and Fancies, 80c. per 100; \$6.00 per 1000.
 Golden Bedder (original) and Hero 75c. per 100; \$8.00 per 1000. A discount of 10 per cent. allowed on 10,000 or more Coleus. More liberal discount on large orders.
 AGERATUM, Princess Pauline and Stella Gurney.
 SALVIA, Splendens and Jean Reveal, rooted cuttings, 75c. per 100; \$8.00 per 1000.
 HELIOTROPE, 75c. per 100; \$4.00 per 1000. All cuttings sent by mail, add 20 cts. per 100.
FRANK A. PIERSON, Cromwell, Conn.
 Mention the Florists' Exchange when writing.

MOON VINES
 A. W. SMITH'S HYBRIDS,
 \$5.00 per 100.
GODFREY ASCHMANN, 1012 Ontario Street, Philadelphia, Pa.
 Wholesale Grower and Importer of Pot Plants.
 Mention the Florists' Exchange when writing.

WELL-GROWN GERANIUMS
 Stock Plants, S. A. Nutt
 4 in..... \$6.00 per 100 5 in..... \$8.00 per 100
SULTANAS
 2 in..... \$2.50 per 100 \$20.00 per 1000
 3 in..... \$4.00 " \$35.00 "
John C. Ure, 2843 Evanston Ave., Chicago, Ill.
 Mention the Florists' Exchange when writing.

BARGAINS
 Per 100
 Double and Single Petunia, 8 in. pots, in bud and bloom, will make fine 4 in. stock, \$3.00
 Vinca Variegata..... 1.00
 Ivy Geraniums, 5 vars..... 1.00
 Moonvine, 2 in. pots..... 2.50
 Draecena Indivisa, 3 in., 12 to 15 in..... 4.00
 Asparagus Sprengeri, 2 in., 1 year..... 2.50
 Hollyhocks, Chatter's Double, 5 colors, 3 1/2 inch pots..... 5.00
 Vinca var., 2 in..... 2.00
 Cobaea Scandens, 2 in..... 2.50
 Draecena Indivisa, 4 in..... 6.00
 Tomato Plants, 6 to 8 in., Stone and Ferguson..... \$1.00 per 1000 25
 CASH with order, please.
GEORGE J. HUGHES, Berlin, N. J.
 Mention the Florists' Exchange when writing.

COLEUS
 Rooted Cuttings
 Verschaffelti, Fire Brand, Golden Queen, Beckwith's Gem, Lord Palmerston, and Fancies, 80c. per 100; \$6.00 per 1000.
 Golden Bedder (original) and Hero 75c. per 100; \$8.00 per 1000. A discount of 10 per cent. allowed on 10,000 or more Coleus. More liberal discount on large orders.
 AGERATUM, Princess Pauline and Stella Gurney.
 SALVIA, Splendens and Jean Reveal, rooted cuttings, 75c. per 100; \$8.00 per 1000.
 HELIOTROPE, 75c. per 100; \$4.00 per 1000. All cuttings sent by mail, add 20 cts. per 100.
FRANK A. PIERSON, Cromwell, Conn.
 Mention the Florists' Exchange when writing.

MISCELLANEOUS PLANTS
 (Continued)
 Per 100 1000
 Hardy Chrysanthemms, small-flowering varieties..... 2.00 17.50
 Hardy Chrysanthemms, large-flowering varieties..... 3.00 20.00
 Hardy Phlox, 10 named var..... 3.00
 Hardy English Ivy..... 2.00 16.00
 Heliotrope, good varieties..... 2.00 17.50
 Ivy Geraniums, in var..... 3.00
 Lemon Verbena..... 2.50 17.50
 Lantanas, 10 varieties..... 2.00 17.50
 Maranta Massangana..... 4.00
 Moonvines, white and blue, 50c. per dozen..... 3.00 25.00
 Nasturtium, 4 vars..... 1.50
 Nymphaea, Odorata gigantea, 50c. doz..... 3.50
 Petunias, Drier's double mixed..... 2.50
 " 5 named varieties..... 8.00
 " Drier's superb single mixed..... 15.00
 " fine mixed..... 1.50 12.50
 Sage, Hol's Mammoth..... 2.00 15.00
 Salvia, in variety..... 2.00 17.50
 Smilax, strong..... 2.00 15.00
 Swainea Alba and Rosa..... 2.00 17.50
 Sweet William, double mixed, 3 in. 3.00
 Verbenas, white, purple and scarlet separates..... 2.00 15.00
 Verbenas, good mixed..... 1.50
 Vinca, (Madagascar Periwinkle)..... 1.50

GERANIUMS
 In good variety, \$2.00 per 100; \$17.50 per 1000. Write for descriptive price list.
R. VINCENT, JR. & SON, White Marsh, Md.
 Mention the Florists' Exchange when writing.

PETUNIAS

Double, Fine Variety and Stock 2 in., 2 cts-

Table listing various petunia varieties like Paris Daisy, Everblooming Forget-Me-Not, German Iris, etc. with prices per 100.

List below, Rooted Cuttings, prepaid. Table listing varieties like Ageratum, Salvia, Petunia, Hardy Pinks, etc. with prices per 100.

BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

100,000 Alternantheras

Strong rooted cuttings, P. Major, red, 60c. per 100; \$4.00 per 1000. A. Nana, yellow, 50c. per 100; \$4.00 per 1000. Special prices on 5000 or more.

DAVIS BROS., Morrison, Ill. Mention the Florists' Exchange when writing.

FINE HARDY PLANTS FROM SOIL

Table listing plants like Salvia, Carnations, Dracena, Crinum, Chrysanthemums, Saperba, Cannas, German Ivy, etc. with prices per 100.

WM. KEIR, Pikesville, Md. Mention the Florists' Exchange when writing.

SMILAX

If you buy 25 plants or 25,000 seed for prices. I have Smilax and Asparagus in any quantity, well-grown and carefully packed.

ALBERT M. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS PREPAID PER 100

Table listing cuttings like Giant Marg. Daisy, Ageratum, Gurney, Dracena, Crinum, Ageratum, Salvia, Bonfire, Alternanthera, etc. with prices per 100.

BYER FLORAL CO., Shippensburg, Pa. Mention the Florists' Exchange when writing.

GREVILLEA ROBUSTA

Table listing plants like Snapdragon, Ampelopsis, Smilax, Vinca, Cryptomeria Japonica, etc. with prices per 100.

E. I. RAWLINGS, QUAKERTOWN, PA. Mention the Florists' Exchange when writing.

Ready May 1st

PANSY PLANTS. Large, transplanted, field-grown plants; in bloom, elegant colors, \$10.00 per 1000.

CHRYSANTHEMUMS. Rooted cuttings of Polly Rose. Can ship in any quantity at \$10.00 per 1000. There is more money in Polly Rose than any other chrysanthemum you can grow. Give it a trial.

STEPHEN CHASE NASHUA, N. H. Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Spring Trade.

Growers of potted plants and bedding material have had no reason to complain of a sluggish trade, or unsatisfactory prices, in any of the last two or three seasons. This branch of our business is full of life and vigor and a falling-off in this line of trade in the near future need not be feared.

Now when the rush of Spring trade is again close at hand—a trade of far greater magnitude and importance to the great number of wholesale and retail plantmen than even the greatest Easter activity—let us all try to deal in nothing but the best, and let us also endeavor to stick to good, up-to-date prices, that will grant a decent margin beyond the cost of production, prices which should give no rise to periodical complaints on this score. Let us neither give thirteen nor eleven for a dozen, neither the baker's nor the skinner's dozen, but an honest gardener's dozen of twelve. And if any of us are in the habit of giving in an extra, let this be a good one, a rare thing for that matter, rather than any crippled, unsalable plant, which will, in nearly every case, persist in being in the front when our goods are judged.

In laying out and planting grounds, in filling vases and window boxes, in executing orders of all kinds, let us be honest, upright business men; let us bear in mind that a job well done begets future business, brings patronage and is a credit to our trade. Anything which for some reason or another may have proved a failure with this or that grower should not be smuggled into large orders, as is so often the case. Either tell your customer you have none of it in good shape, or, if you take the order for good plants of that kind, then procure them from some other grower, who has been more fortunate in raising them. The mere fact that any grower has a lot of plants which failed to do well does not entitle him to first-class prices for the same.

Easter.

After the most judicious planning, the most careful preparations of many months, the great holiday is at hand. May all the forethought, anxiety, labor and outlay prove fruitful. May the expectations of every florist who looked forward with watchful, hopeful eyes to a lively, profitable Easter business, be fully realized. I shall not try, at this the eleventh hour, to string out a lengthy set of Easter hints, well knowing that all those to whom they might prove helpful will find but little time to read just now. This little time, however, will suffice for the following few

Reminders.

The most experienced and reliable person in the entire crew should be entrusted with the making up of large orders to be delivered at a certain hour. Let him attach the cards and see to it that this or that plant is duly labeled, stacked or dressed, as ordered, and let him supervise the sending out of every order.

Be sure to accurately book every order, the name and residence of purchaser, the number, name, grade and price of plants or flowers, whether paid or charged, and when to be delivered with name and number of the recipient. Always, no matter how busy you are, take your full time in doing this part of the business.

Make certain that every plant before it leaves your place is thoroughly watered. The plants, having been handled and shifted about more than usual, need watching in this respect. A plant almost dry at the roots when it leaves the store, will, after a journey of a mile or more, be unrepresentable.

If you happen to have any help on the place too slow-witted to be of any real assistance otherwise, set him to washing the pots of plants that might probably still find a buyer. But do not let him get his hands in on the orders already made up.

Experienced, nimble fingers should attend to the dressing of plants and pots. A lady is the proper person for this sort of work, which should be done just before the plants are to be delivered. Crepe paper, matting and ribbons are to be used in a manner calculated to enhance rather than to hide the natural beauty of plants and flowers.

Make a reasonable charge for the dressing of plants, for any extra labor, frills, ruffles or fringes, when the buyer insists on having these extras, and is perfectly willing to pay for them. Indeed, most of them would think less of their purchase were it otherwise.

By all means do not get ruffled yourself. Do not fret, worry or lose your temper through any cause whatever. Some mistakes will likely be made, something probably go wrong. Correct the mistakes and overlook the breaking of a pot or the loss of a plant.

The florist with a good portion of business capacity is fertile in resources, gifted in the matter of overcoming difficulties and mishaps. He is not easily confused by details. May his path be strewn with roses and his Easter eggs be golden! FRED. W. TIMME.

DAHLIA Kaiserin Augusta Victoria

THE BEST WHITE DAHLIA IN EXISTENCE.

My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 6 ins. in diameter; a wonderful bloomer, stems 12 to 18 in. long; plants 3 to 3 1/2 feet high. The finest plants obtained from cuttings. Good strong stock from 2 1/2 in. pots, 73.00 per dozen \$20.00 per 100. Delivery May 1st. Orders filled in rotation. Early booking suggested. Highly commended by the American Institute and the New York Florists' Club.

A. L. MILLER, Jamaica Avenue, Brooklyn, N. Y. Mention the Florists' Exchange when writing.

GERANIUMS

Table listing geranium varieties like 10 Varieties, Alternantheras, Asparagus Plumosus, Verbenas, Cannas, etc. with prices per 100.

CASH OR C. O. D. JOSEPH H. CUNNINGHAM, Delaware, Ohio. Mention the Florists' Exchange when writing.

HEADQUARTERS FOR ENGLISH IVY

English Ivy, from 3 1/2 inch pots, strong and bushy, 3 plants in a pot, \$5.00 per 100; \$50.00 per 1000. Big value for the money. Cash with order.

LOUIS C. PILAT 154 Main Street, OSSINING, N. Y. Mention the Florists' Exchange when writing.

IVY

Hardy large leaf variety, bushy, 4-6 ft. high, 5 in. pots, \$16.00 per 100. Rooted cuttings, very strong, 5-8 eyes, \$1.25 per 100; \$10.00 per 1000. Lemon Verbena, stock plants, 4 in. pots, \$6.00 per 100. Cash with order please.

JOHN RECK & SON, Bridgeport, Conn. Mention the Florists' Exchange when writing.

COLEUS

2 1/2 in., \$2.00 per 100. HELIOTROPE 2 1/2 in., \$2.00 per 100. Cash with order, please.

W. H. PARSIL, Summit, N. J. Mention the Florists' Exchange when writing.

200,000 Bedding Plants

First Class Stock that will please

Geraniums, S. A. Nutt, Double Gen. Grant, Ricard, Buchner, Poitevine, strong 4 in., in bud and come in bloom, \$5.00; extra strong, \$6.00 per 100. Verbena, separate and mixed; Petunias, Dreer's 8 fringed Mme. Sallerol Geraniums, all strong, 2-2 1/2 and 3 in., \$1.75 and \$3.00 per 100. Salvia, Bonfire, strong, 2, 3 and 4 in., \$1.75, \$3.00 and \$4.00 per 100. Dracena Indivisa, strong, 6 in., \$12.00 per 100. Ageratum, Lubella, Alternantheras, red and yellow, all 2 1/2 in., \$1.60 per 100. Colens, Verschaffeltii, yellow and fancy mixed, 2-2 1/2 in., \$1.75 per 100. Heliotrope, in bud and bloom, strong 3 in., \$3.00 per 100. Begonia, Vernon, strong 2 in., \$2.00 per 100. Cannas, in variety, strong 4 in., \$5.00 per 100. Vinca variegata, 4 in., 4 1/8 strong vines, \$7.00 per 100. CASH

WM. HERZOG, Morris Plains, N. J. Mention the Florists' Exchange when writing.

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To Supply Cui Flowers during Spring and Summer.

Burbank's Shasta Daisies Divisions of selected stock; extra strong, \$1.00 per 100; \$31.00 per 1000. 2nd size, \$2.50 per 100; \$16.00 per 1000.

Rudbeckia (Golden Glow), Strong divisions; \$3.00 per 100; \$20.00 per 1000. Achillea The Pearl. Clumps, \$2.50 per 100; \$16.00 per 1000.

Delphinium Hybrid fl. pl. Colors, all shades from sky blue to dark purple, strong divisions, \$8.00 per 100.

Delphinium Hybrid, fl. pl. Frau Emma Metzger, the best of all Delphiniums for cutting; color, sky blue tinted silvery rose; a good keeper. Plants from cold frames, from last years sowing, \$1.50 per doz.; \$14.00 per 100.

Delphinium Formosum, \$5.00 per 100. Chinese, \$6.00 per 100. Pyrethrum Roseum Hybrid Grand-florum. Seed from Kelway's Prize Collection. One-year-old clumps, \$1.50 per doz.; \$7.00 per 100. Cash or satisfactory reference with order.

WM. A. FINGER, Hicksville, L. I., N. Y. Mention the Florists' Exchange when writing.

COLEUS

Table listing coleus varieties like 12 Varieties, Double Petunias, Seedling Petunias, Centaurea Gymnocarpa, Vinca Vine, Primroses, etc. with prices per 100.

Good little plants, Nutt and other best doubles, \$1.35; strong, \$2.00 per 100. Every effort made to have Giant and Fancy of the finest possible. Fancy, \$5.00; Giant Leaved, \$8.00 per 1000. Verschaffeltii, G. Bedder (true), Corona, red, with broad gold border, fine, \$6.00 per 1000.

PANSIES Finest colors offered, in bloom, large, \$10.00 per 1000. Fall struck from soil. A. Nana, \$7.00; Crim-son Ring (best red), \$8.00 per 1000.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

GERANIUMS, Etc.

In bud and bloom, ready May 1st. S. A. Nutt, La Favorite, Gloire de France, A. Ricard, Mme. Thibaut, E. G. Hill, Le Pilote, John Doyle, and others in variety, 3 1/2 in. pots, \$6.00 per 100. Heliotrope, Chieftain and Queen of Violets, 3 1/2 in. pots, \$5.00 per 100. Cannas, Florence Vaughan, Charles Henderson, Mme. Crozy, Queen Charlotte, Egan-dale, Austria, Italia, Shenandoah, 4 in. pots, \$5.00 per 100. Petunias, Single, Dreer's fringed, 3 in. pots, \$2.50 per 100. Salvia, 2 1/2 in. pots, \$2.00 per 100. Ageratum, dwarf blue, 2 1/2 in. pots, \$2.00 per 100. Verbenas, 3 in. pots, \$2.50 per 100. Vinca, variegata, 3 in. pots, \$3.00 per 100. Heliotrope, two varieties, 2 1/2 in. pots, \$2.00 per 100. R. C. Ageratum, dwarf blue, Cophea Cigar plant, 60c. per 100. Verbena seedlings, Henderson's Mar-moth, 60c. per 100, \$4.00 per 1000. 5000 Vinca variegata, 2 1/2 in. pots, \$3.00 per 100. Cash with order.

WM. J. CHINNICK, Trenton, N. J. Mention the Florists' Exchange when writing.

COLEUS

Verschaffeltii, Golden Bedder, and 15 assort-ed rooted cuttings, 60c per 100; \$5.00 per 1000; 2 in. pots, \$1.50 per 100. Giant Fancy Leaf, \$1.00 per 100.

AGERATUM, Pauline and Gurney, rooted cuttings, 60c. per 100; 2 in. pots, \$1.50 per 100. SALVIA, HELIOTROPE, VINCA VARIEGATA, ALYSSUM, FUCHSIAS; rooted cuttings, \$1.00 per 100; 2 in. pots, \$2.00 per 100; 3 in. \$3.00 per 100.

ALTERNANTHERAS, P. Major, \$5.00 per 1000; A. Nana, \$4.00 per 1000. MARGUERITE Carnation Seedlings, 75c. per 100; 2 in. pots, \$1.50 per 100. PANSY PLANTS, \$1.00 per 100, \$8.00 per 1000. Small size, 60c. per 100.

COLEUS

CASH WITH ORDER.

ERNEST HARRIS, Dolanso, N. Y. Mention the Florists' Exchange when writing.

HEADQUARTERS FOR COLEUS

Geraniums, all sold for the month of March, except Rose Geranium at \$2.00 per 100, 2 1/2 in. pots. Fuchsias, in variety, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, \$1.50 per 100.

Coleus, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, 60c. per 100. Golden Bedder and Verschaffeltii in quantities. \$5.00 per 1000. Heliotrope, all dark, 2 1/2 in. pots, \$3.00 per 100; rooted cuttings, \$1.00 per 100.

English Ivy, 2 1/2 in. pots, \$2.50 per 100; rooted cuttings, \$1.25 per 100. German Ivy, 2 1/2 in. pots, \$2.50 per 100. Abutilon, Souvenir De Bonn, 2 1/2 in., \$2.00 per 100. Feverfew, 2 1/2 in., \$2.50 per 100. Dracena, 4 in., \$3.00 per 100. Blue Lubella, 2 in., \$3.00 per 100; R. O., \$1.00 per 100.

Hydrandea Otakka, 4 in., \$3.00 per 100. Salvia, 2 in., \$2.00 per 100; R. C., \$1.00 per 100. Ageratum, Stella Gurney, Princess Pauline and others, 2 in., \$1.50 per 100; R. O. 80c. per 100. Double Petunias, 2 in., \$2.50 per 100; R. C., \$1.50 per 100. Cash must accompany the order.

J. E. FELTHOUSEN, Schenectady, N. Y. Mention the Florists' Exchange when writing.

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We now offer the trade a Nicotine Solution, guaranteed to contain not less than

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50,000 PANSY PLANTS

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PANSIES—200,000

Fine, large, transplanted plants, prize strain of the famous large flowering Bugnots, Cassiers, Odler and Trimardeau. Stocky plants, from cold frame. 50cts. per 100, by mail; \$3.00 per 1000, by express.

Extra large plants, in bud and bloom, \$1.00 per 100. Verbenas, Mammoth, R. C., 60c. per 100, \$5.00 per 1000; 2 1/4 in. pots, in bud and bloom, \$1.50 per 100; \$12.00 per 1000. Stocks, Double White for Easter, \$1.00 per 100, \$8.00 per 1000; Daisies, Double White, 75c. per 100, \$5.00 per 1000; Feverfew, Double White, \$1.00 per 100, \$8.00 per 1000; Salvia, Splendens, \$1.00 per 100; Lobelia, Dwarf Blue, \$1.00 per 100; Ageratum, Dwarf Blue, 60c. per 100; Geraniums, Nutt, Ricard, La Favorite, Pink and Politevine, 4 in., in bud and bloom, \$3.00 per 100.

Petunias, Double fringed and dark blue, Heliotropes, bud and bloom, 4 in., \$6.00 per 100. HILLTOP GREENHOUSES, 15-16 Gray Ave., Utica, N.Y.

Mention the Florists' Exchange when writing.

ENGLISH IVY 4 in. pots, 3 to 4 feet high, \$1.00 per 1000.

VIOLETS Princess of Wales, on rooted cuttings, 50c. per 100; \$4.00 per 1000.

MRS. A. N. TOWELL, West 200th St. and Fort Washington Ave., N. Y. City. Mention the Florists' Exchange when writing.

PANSIES

Royal Exhibition and Trimardeau, strong plants, transplanted last Fall in open ground, \$1.00 per 100; \$10.00 per 1000. Hellis Perennis, 1.00. Forget-me-not, dwarf, strong clumps, 2.00. Asparagus Plumosus, 3 in. pots, 5.00. " 2 1/4 in. pots, 2.50. " Sprenger, 2 1/4 in. pots, 2.00. Draecena Indivisa, 4 in., 5 in., 8 in. pots, 10c., 20c., 40c.

Sweet Alyseum, Little Gem; Petunia, Howard's Star, Giant of California, double, 2 1/4 in. pots, 2.00. Cabbage, Wakefield, transplanted, \$4.00 per 1000.

J. S. BLOOM, Riegelsville, Pa. Mention the Florists' Exchange when writing.

Pansy Plants

Of my largest flowering mixture of SHOW varieties, unsurpassed quality, good size stocky plants coming in bud, \$3.00 per 1000. Bellis (Daisies) largest doubled and white, fine plants, coming in bud, \$3.00 per 1000. (All above 500 at 1000 rate.)

GUSTAVE PITZONKA, Bristol, Pa. Mention the Florists' Exchange when writing.

PANSY PLANTS

From our well-known strain. Large clumps, in bloom, \$1.50 per 100; \$12.00 per 1000. Large transplanted plants, \$4.00 per 1000. Good sized plants, \$2.50 per 1000.

DAISIES (Bellis), red and white, \$2.00 per 1000.

J. C. SCHMIDT CO., BRISTOL, PA. Mention the Florists' Exchange when writing.

Salvia Splendens

3 in., \$2.00 per 100; \$20.00 per 1000. 2 in., \$1.50 per 100; \$15.00 per 1000. Owing to loss by fire must have cash.

S. W. CAREY, North End Florist, URBANA, O.

PANSIES

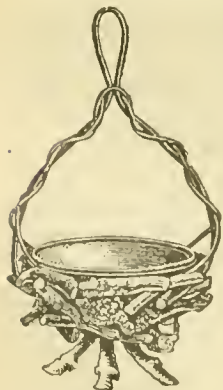
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E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

PANSIES

A superb strain, transplanted in cold frames, large plants, 50c. per 100, by mail; \$3.00 per 1000, by express. Per 100. Mammoth Verbenas, in bud, 2 1/4 in., \$1.50. Finely fringed single Petunias, 2 1/4 in., 1.50. Salvia, glowing scarlet, strong, 2 1/4 in., 2.00. Begonia Vernon, new variety, 2 1/4 in., 2.00.

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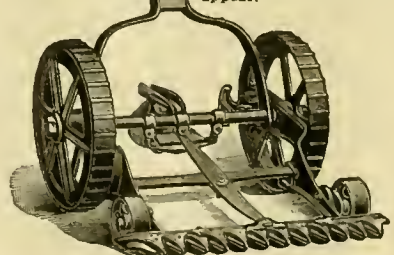
	Size..	8	9	10	11	12	13	14
Price, each.....		\$0.50	\$0.65	\$0.80	\$0.90	\$1.10	\$1.25	\$1.50
" per doz.....		5.50	6.75	8.75	9.75	11.35	13.00	17.00

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The Clipper will do it. Ask your dealers for them. If they have not got them, below is the price: No. 1—12-in. Mower, \$5; No. 2—15-in. Mower, \$8; No. 3—18-in. Mower, \$7; No. 4—21-in. Mower, \$8. Send draft, money order or reg. letter.

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100,000

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SUPERB STRAIN READY NOW

Fine, large Fall transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you ever handled.

\$1.25 per 100; \$10.00 per 1000

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extra 20.00 to 25.00	White 3.00 to 4.00
No. 1 12.00 to 15.00	Pink 3.00 to 4.00
No. 2 6.00 to 8.00	Red 3.00 to 4.00
No. 3 3.00 to 4.00	Yel. & Var. 3.00 to 4.00
Bride, 'Maid, lancy-spec' 10.00 to 12.00	White 4.00 to 6.00
extra 8.00 to 10.00	Pink 4.00 to 6.00
No. 1 5.00 to 6.00	Red 4.00 to 6.00
No. 2 2.00 to 4.00	Yel. & Var. 4.00 to 6.00
Golden Gate 3.00 to 8.00	NOVELTIES 6.00 to 8.00
Liberty 3.00 to 20.00	LILY OF THE VALLEY 2.00 to 3.00
Meteor 3.00 to 6.00	MIQNONETTE, ordinary 1.00 to 2.00
Mme. Abel Chataenay 1.00 to 6.00	lancy 1.00 to 6.00
ADIANTUM..... .50 to 1.75	NARCISSUS, Paper White 1.00 to 1.50
CROWANUM 1.00 to 1.50	Ordinary, Yellow 2.00 to 3.00
ASPERAGUS 25.00 to 50.00	Double Yellow 3.00 to 4.00
Sprengerl, bunches 10.00 to 25.00	PANSIES, per dozen bunches..... .35 to .50
CALLAS 8.00 to 10.00	ROMAN HYACINTHS 1.00 to 2.00
CATTLEYS 40.00 to 75.00	SMILAX 12.00 to 25.00
DAISIES..... .50 to 1.50	STOCKS, per bunch..... .10 to .25
FREESIAS, per bunch..... .10 to .25	SWEET PEAS..... .50 to .75
LILAC, per bunch50 to .60	TULIPS 2.00 to 4.00
LILIES 6.00 to 10.00	VIOLETS75 to 1.00
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 CUT FLOWERS AT WHOLESALE

Pittsburg.
 The Week's News.
 Polite's new store on Fifth avenue in the Arcade building opened up last week, and is doing a nice business. This is one of the best retail stands in the city, being on the most prominent square.

John Bader and Blind Bros. opened up their stands in the market, and will remain for the season.
 A. W. Smith had a fine wedding order last week, one of the best of the season. The decorations were very attractive.
 J. A. Peterson, of Cincinnati, O., was in town last week and disposed of a fine lot of plants. August Rhotert's representative, Mr. Darrow, of New York, was also here on business.
 H. Langhans, father of T. P. Langhans, of the Pittsburg Cutflower Company, died last week.

W. C. Beckert, the Allegheny seedsman, has returned from Bermuda. Mr. Beckert had a very pleasant trip, a smooth sea both ways. Hartsii lilies are looking fine, and flowers were being shipped to the United States as usual for Easter.
 Wintry weather for four days, lots of snow and the thermometer as low as 27 degrees, did some harm to trees and shrubs, but was beneficial to bulbous stock and other blooming plants under glass, holding them back for Easter trade.

A visit to the Bakerstown rose plant last week showed everything in fine shape. The cut for Easter will be very large. F. Burki has certainly built a model plant, up-to-date in every thing, equal to anything in the country. Carnations, grown by many thousands, are in the best possible condition; the young stock for this year's planting could not be better. Adonis showed up very strong. Flamingo and Lady Bountiful are favorites. Fred Burki looks to be as good a white as is on the market, and will be grown heavily this year. William Scott is still grown, but this is the last year for it. Roses are also in good condition. General MacArthur and Mme. Abel Chataenay were strong. - Bride, Bridesmaid and Perle des Jardins are the main crop. A good lot of Mme. Cusin are grown and a small batch of the old favorite, Bon Silene. The asparagus house is quite a feature, and very profitable; several plants, sports of A. plumosus, promise to make a sensation, being more elegant in appearance and just as strong in growth as the type.
 E. C. REINEMAN.

PORTLAND, ORE.—Luther Burbank will, for the first time, make a complete exhibit of his strange plant products at the Lewis and Clark Exposition, which is to be held in Portland this coming Summer. The exhibit will contain all the more famous products, and is sure to be found of unusual interest. It will be one of the most noteworthy attractions of the Western World's Fair, which will have, besides, many other things well worth making the overland trip to see.

A. L. YOUNG & CO.

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WM. J. MUTH, MANAGER.

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Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.

OALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.

Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.

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All fresh stock. Ten years' experience. Cash with first order.

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WILD SMILAX, \$4.00 and \$7.00 per case.

GALAX, New crop. Green and bronze, \$1.00 per 1000.

Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Imports of Ilex, Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.

L. D. Telephone, Main 2813.

Mention the Florists' Exchange when writing.



"Standard for Quality" GALAX LEAVES, LEUCOTHOE SPRAYS GREEN SHEET MOSS

WM. C. SMITH, Marlon, N. C.

Sold in New York by L. J. Kreshover; Philadelphia, S. S. Pennock; Buffalo, Wm. F. Keating; Albany, H. L. Menand; Pittsburgh, Pittsburg Cut Flower Co.; Cleveland, Cleveland Cut Flower Co.; Detroit, Michigan Cut Flower Co.; Providence, Rennie & Pino.

Mention the Florists' Exchange when writing.

BAMBOO CANE STAKES

Choice Western, length 6 1/2 to 8 feet, 500 for \$2.50; 1,000 for \$4.50; 5,000 and over at \$4.00 per 1000.

TOBACCO POWDER (Strong) For Fumigating, 100 lbs. \$2.25; 1,000 lbs. \$20.00. For Dusting (Impalpable Powder) 100 lbs. \$2.75; 1,000 lbs. \$25.00.

WOOD, STUBBS & CO., Seedsmen, Louisville, Ky.
Mention the Florists' Exchange when writing.

SHEEP MANURE

Pulverized. Free from all Adulteration In Bags, \$18.00 per Ton

Special price on our load lots in bulk

ROBERT SIMPSON, Clifton, N. J.

Mention the Florists' Exchange when writing.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, Berlin, N. Y.

Samples free. For sale by dealers.

Mention the Florists' Exchange when writing.

N. LEGAKES & CO.

53 W. 28th St., NEW YORK

Tel. No. 1214 Madison Square



Stands at Cut Flower Exchange Coogan Bldg., W. 28th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Leucothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves

75c. per 1000.

Mention the Florists' Exchange when writing.

A. J. FELLOURIS

Wholesale and Retail Dealer in all kinds of



Evergreens



Galax

Bronze or Green

\$1.00 Per 1000

FERNS, Fancy, \$1.50 per 1000

Dagger, \$1.00 per 1000

468 Sixth Ave., New York

BETWEEN 28th and 29th STREETS

TELEPHONE 4009R MADISON SQUARE

Mention the Florists' Exchange when writing.

FERNS

FANCY, \$1.50 per 1000. DAGGER, \$1.25 per 1000.

GALAX, brilliant bronze or green, 75c. per 1000, \$8.50 per case of 10,000.

Laurel Festooning, hand-made, full sizes, yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle.

Southern Wild Smilax, \$5.50 per 50 lb. case.

Laurel Wreaths and Prince's Pine Wreaths

Made all sizes and prices.

Prince's Pine by the lb. and made into ropting. Tell us your wants and we will name you prices.



MILLINGTON MASS.

Telegraph Office: New Salem, Mass.

Mention the Florists' Exchange when writing.

Worcester Conservatories

Wholesale Growers of

CUT FLOWERS

Prompt attention given all orders.

WORCESTER, MASS.

J. B. MURDOCH & CO.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance Phone, 1435 Court.

National Florists' Board of Trade

NEW MANAGEMENT. Tel. Call, 655 John.

HARRIS H. HAYDEN (Late Manager of the Nepera Chemical Company), President

EDWARD MOK, WHITE, Vice-Pres. and Counsel

JOHN E. WALKER, Secretary and Treasurer

56 PINE ST., Wallace Bldg., N. Y. CITY

WHOLESALE CUT FLOWERS

and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over two of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."

Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION

NEW CROP FANCY and DAGGER FERNS

READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.

Mention the Florists' Exchange when writing.

Special Quantity Prices on Application

E. A. BEAVEN, Evergreen, Alabama

Boston.

Easter Outlook.

The outlook for the Easter trade is so far very encouraging. Wednesday being a holiday (Patriots' Day), somewhat interfered with shipping arrangements, and will cause an extra rush on the latter days of the week. While it is yet too early to say what will be the extent of the cut flower trade, there is no question but that the plant trade will far exceed that of any previous year. Lilies in pots are much finer than last year, and there is every indication of a plentiful supply. Crimson and Baby Rambler roses are quite numerous. Azaleas will, perhaps, not be so plentiful; while there is abundance of genistas, ericas, hydrangeas and such plants.

The Week's News.

A fire started in some unaccountable way in the delivery wagon of Arthur H. Fewkes, of Newton Highlands, while on one of Boston's busiest streets with a load of plants, on Saturday afternoon. Fortunately, it was extinguished before much damage was done. W. C. Stickel has sold his North Cambridge establishment to John McKenzie, who conducted a greenhouse establishment in the same neighborhood. Mr. Stickel will devote his entire time to his plant at Lexington.

In my notes on Easter plants last week the illustrated plant of Andromeda speciosa was grown by Mr. Shad, of the Bussey Institution; the other accompanying illustrations by A. Leuthy & Co.

James Farquhar, who has been in Porto Rico all Winter, in the interests of growing his firm's new lily, sailed for home on Wednesday.

W. H. Elliott has returned from Washington, having also spent a few days at New London, Conn.

Hoffmann has some fine forced peonies from his own greenhouses at Mount Auburn.

Wm. Sim, who was experimenting with retarding a lot of violets in frames for the Easter trade, has a fine lot in prime condition.

Visitors this week included Ernest Wienhoeber, Chicago, and W. C. Langbridge, Cambridge, N. Y.

Buffalo, N. Y.

News Notes.

The J. H. Rehstock Company will occupy several store front spaces right next to their store, as annexes, giving a chance for a fine display.

Rachel M. Rehstock sports a new delivery wagon, as an accessory demanded by her expanding business. Palmer & Son have engaged a large delivery type of auto for this week's special use.

Recent visitors included Robert Bard and P. R. Quinlan, of Syracuse, the former acting as judge of cut blooms at the Sweeney flower shop last week, and E. B. Sage, of Red Rock, Pa.

VIDI.

SALEM, O.—J. E. Bonsall, who has greenhouses near Hope Cemetery on Garfield avenue, has purchased about four acres of ground immediately in the rear of his present property, and will utilize this in connection with his business.

FOXBORO, MASS.—A. F. Belcher is in the hospital.

Wm. J. Baker Wholesale Florist 1432 S. Penn Square, PHILADELPHIA, PA. Seasonable Cut Flowers Fine Quality Both 'phones.

DUMONT & CO. Wholesale Florists Carnations a Specialty No. 1305 Filbert St., Philadelphia Bell and Keystone 'Phones.

WM. J. MOORE Wholesale Florist 1235-37 FILBERT STREET "Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA. Bell and Keystone 'Phones. Growers of choice Carnations and other Novelties will prompt by giving me a trial.

EDWARD REID Wholesale Florist 1526 Ranstead Street, PHILADELPHIA Bet. Market and Chestnut Streets Choicest Stock Always on Hand Telephone 1-42-26-A.

A DAILY CUT FROM 40 GROWERS We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty. Write, telephone or telegraph. Long Distance Phone, 1129 Main. Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE. E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave, CHICAGO

J. B. DEAMUD Successor to Illinois Cut Flower Co. Wholesale Cut Flowers Consignments Solicited. 51 and 53 Wabash Avenue, CHICAGO

GEO. REINBERG Wholesale Grower of Cut Flowers CHOICE AMERICAN BEAUTY ROSES We will take care of your orders at reasonable prices. Prompt attention. 51 Wabash Avenue, CHICAGO, ILL. Mention the Florists' Exchange when writing.

SINNER BROS. Wholesale Growers CUT FLOWERS and Shippers of 58-60 Wabash Ave., Chicago, Ill. With the Flower Growers' Co. TELEPHONE, CENTRAL 8067. All telephone and telegraph orders given prompt attention.

VAUGHAN & SPERRY 58-60 Wabash Ave. CHICAGO WHOLESALE FLORISTS All Cut Flowers at Ruling Market Prices. Florists' Supplies

CHARLES W. McKELLAR Wholesale Commission Florist and Dealer in all Florists' Supplies 51 WABASH AVENUE, CHICAGO Correspondence Invited from Growers of Specialties in Cut Flowers

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore Mar. 22, 1905, Boston Apr. 16, 1905, Buffalo Apr. 17, 1905, Chicago Apr. 11, 1905, Cincinnati Apr. 17, 1905, Milwaukee Apr. 17, 1905, Philadelphia Mar. 21, 1905, Pittsburg Apr. 17, 1905, St. Louis Apr. 17, 1905. Rows include A. Beauty, Roses, Carnations, Standard Varieties, Fancies, Orchids, Callas, Daffodils, Freesias, Hyacinths, Lilies, Lily of the Valley, Mignonette, Narcissus, Pansies, Smilax, Sweet Peas, Tulips, Violets.

Headquarters in Western New York For ROSES, CARNATIONS And all kinds of Seasonable Flowers. WM. F. KASTING Wholesale Commission Florist ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS 333-87 Ellcott St. BUFFALO, N. Y. GIVE US A TRIAL WE CAN PLEASE YOU

CUT FLOWER BOXES WEATHERPROOF. Corner Lock Style The best, strongest and neatest folding cut flower box ever made. Cheap, durable. To try them once is to use them always. Size No. 0... 3x 4x20... \$2.00 per 100; \$19.00 per 1000. THE LIVINGSTON SEED CO., Box 104, Columbus, O.

BOSTON, MASS. Asparagus Plumosa Mignonette Chrysanthemums Lily Marisill Brides, 'Maids American Beauties WELCH BROS. PROPRIETORS CITY HALL CUT FLOWER MARKET 15 PROVINCE ST.—9 CHAPMAN PL. Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6207 and 6208. Mention the Florists' Exchange when writing.

H. G. BERNING Wholesale Florist 1402 Pine Street, ST. LOUIS, MO. Mention the Florists' Exchange when writing.


HOLTON & HUNKEL CO. Wholesale Florists Florists' Supplies Manufacturers of Wire Designs. 457 Milwaukee Street, MILWAUKEE, WIS. Phone, Main 874. P. O. Box 103. Mention the Florists' Exchange when writing.

CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses and Spring Flowers 11 South 16th Street, PHILADELPHIA

WE ARE THE MAKERS OF THE

Model Glazing Point

Acknowledged By All To Be the Best



SOME TESTIMONIALS.

THE SEYMOUR GREENHOUSES, Seymour, Ind.
 March 21, 1905.
 PARKER-BRUEN MFG. COMPANY, INC.,
 1133 Broadway, New York.
 Dear Sirs:—Your favor of March 18th received, also catalogue. In regard to your Glazing Points we would say that we like them better than anything we ever used before, being easier to drive and holds glass very firm. Would not think of using anything else. You may expect an order for more when we need them.
 Yours truly,
 M. A. BARICK.

ARENDT BULB CO., Tamoroa, Ills.
 April 5, 1905.
 PARKER-BRUEN MFG. COMPANY, INC.,
 1133 Broadway, New York.
 Dear Sirs:—We are now using your Model Glazing Points, and they seem to be better than any we have tried—and we have tried them all. We use them on Hot Bed Sash, where they would soon show their weakness—if any. We see no reason why they should not be called The Best.
 Yours truly,
 ARENDT BULB CO.

GEO. E. VOORHEES, Morristown, N. J.
 April 3, 1905.
 PARKER-BRUEN MFG. COMPANY, INC.,
 1133 Broadway, New York.
 Dear Sirs:—In regard to your Glazing Points I would say that I have carried them for the past two years and have sold quite a quantity of them, and they have proven satisfactory. I still carry them in stock.
 Yours very truly,
 GEO. E. VOORHEES.

G. J. BAGSHAW, Fairfield Rd., Victoria, Canada.
 April 5, 1905.
 PARKER-BRUEN MFG. COMPANY, INC.,
 1133 Broadway, New York.
 Dear Sirs:—Your Model Glazing Points are the best yet. Please send me two packages more. Enclosed please find \$1.32, and oblige,
 G. J. BAGSHAW.

We Have Over a Thousand Other Testimonials
 Can't We Have Yours?

Sold in Single Boxes and Upward. Discount to Wholesale Houses.
 PRICE: 50 cts. per Box of 1040 Points.
 16 cts. additional by mail.


PARKER-BRUEN MFG. COMPANY, Inc., 1135 Broadway, NEW YORK.
 Factory: HARRISON, N. J.

Mention the Florists' Exchange when writing.



CYPRESS
 GREENHOUSE MACHINERY
 ANY DESIGN
JOHN C. MONINGER CO.
 111-125 Blackhawk St.
 Cor. Hawthorne Ave.
 CHICAGO, ILL.

Mention the Florists' Exchange when writing.



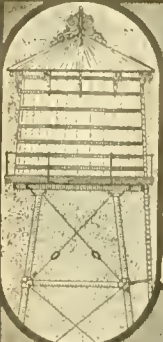
The Standard Ventilating Machinery
 The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.
 E. HIPPARD, Youngstown, O.

Mention the Florists' Exchange when writing.



MASTICA
 FOR Greenhouse Glazing
 USE IT NOW.
F. O. PIERCE CO.
 170 Fulton St., NEW YORK

Mention the Florists' Exchange when writing.



"Absolutely Safe and Reliable. Ask your Friends."
Holdfast is Always the Best Dog
 WE BEGAN BUILDING
TANKS AND TOWERS
 Twenty-five years ago and have been at it ever since.
 Which of our competitors can say the same?
W. E. CALDWELL CO., LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

San Francisco.
 News Jottings.
 Summer weather is in full swing here. Easter stock is now abundant; but right in the presence of this warm weather growers of roses, carnations, orchids and lilies, notably the Burlingame growers, E. W. McLellan & Co., Superintendent Thos. W. Breed, of the Meyer nursery; H. G. Hardy, at San Mateo, and Demoto Brothers, of Elmhurst and Fruitvale, are encouraging the cut flower dealers in the hope that their hold-back tactics will enable them to supply stock equal to the Easter day demand.

The other name of the Meyer nursery referred to is Glenwood Nursery. It was established one year ago last June, and has already grown into a plant now representing twenty-one houses and 145,000 square feet of glass. The first three concerns mentioned are located in San Mateo county, the one other peninsular county, joining San Francisco on the south. And since San Mateo is now penetrated by the electric car system of the United Street Railway Company of San Francisco, these growers, and hundreds of other San Mateo growers, are gladly expressive of the transportation facilities afforded, exceedingly so just now in view of the current report that the United Street Railway Company is planning to supply the San Mateo growers with cars specially adapted for the flower trade.

On April 7 the widowed mother of Luther Burbank was 92 years old, and many were the birthday tokens of friendship and esteem she received, some, as usual, from the far away town of her birth, Sterling, Mass. Whenever he can cast aside the thousand cares that his work imposes upon him, Luther Burbank and his mother have a chat together, and particularly on the annual occasion when her birthday comes around he devotes almost his entire day to her.
 ALVIN.

HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty,
C. S. WEBER & CO.
 10 Desbrosses St., New York



Century Sprayer.
 Best barrel sprayer made. Capacity and adaptability to suit oil requirements. These are features: Its valves are bronze balls. Cylinder and plunger are brass. Indestructible packing crimps. Large air chamber. Agitator that agitates. Its low
PRICE PLEASES
 We make twenty styles sprayers. Every need specially met with Hand, Bucket, Knapsack, Power or Sprayers. Spraying cutting trees. Booklet on insects and plants and fruit diseases 10c.
 THE DEMING CO., Salem, D.
 Mention & Hubbell, Western Agents Chicago, Ill.

Mention the Florists' Exchange when writing.

Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

HASLAM LIME CO.
 Manufacturers of ONLY OYSTER SHELL LIME
 118 to 130 Cliff St. Scranton, Pa.
 Mention the Florists' Exchange when writing.

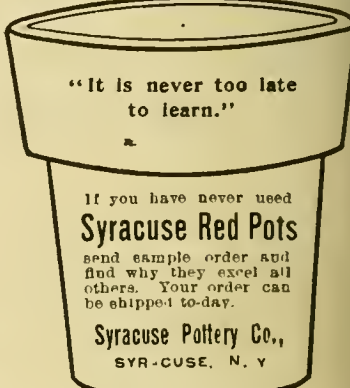
STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.50	
1500 2 1/2 " " " 5.25	60 8 " " " 4.00	
1500 3 " " " 5.00	HAND MADE.	
1000 8 " " " 5.00	48 9 in. pots in crate, \$3.99	4.50
800 8 1/2 " " " 5.80	24 11 " " " 3.99	4.90
500 4 " " " 4.50	24 12 " " " 4.90	4.90
200 5 " " " 4.50	12 14 " " " 4.90	4.50
144 6 " " " 5.16	6 16 " " " 4.50	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N. Y.
 August Holker & Sons, Agts. 61 Barclay St., N. Y. City
 Mention the Florists' Exchange when writing.



"It is never too late to learn."
 If you have never used
Syracuse Red Pots
 send sample order and find why they excel all others. Your order can be shipped to-day.
Syracuse Pottery Co.,
 SYRACUSE, N. Y.

Mention the Florists' Exchange when writing.



ESTAB. 1765
A. H. HEWES & CO.
 NO. CAMBRIDGE MASS.
 L. I. CITY N. Y.
 CATALOGUE FREE

Mention the Florists' Exchange when writing.

Heating! Heating! Heating!

A FEW REASONS WHY I HAVE SO MANY COMMERCIAL HEATING CONTRACTS ON HAND

THE satisfactory results obtained in the past.
 HE most competent greenhouse mechanics employed.
 HE boilers I install are a guarantee of satisfaction and economy.
 HE best figures on your work that can be secured.

AN OPPORTUNITY TO ESTIMATE ON YOUR HEATING OR REPAIR WORK WILL BE TO YOUR INTEREST

WM. H. LUTTON
 West Side Ave. Station Tel. 174 J BERGEN JERSEY CITY, N. J.
 Eastern Agent Furman and Kroschell Boilers
 Mention the Florists' Exchange when writing.

GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

Mention the Florists' Exchange when writing.

GLASS

For Greenhouses, Graperies, Hotheads, Conservatories, and all other purposes. Get our prices before buying. Estimates freely given.

N. COWEN'S SON,

92-94 W. Broadway, NEW YORK.

Mention the Florists' Exchange when writing.

Evans Improved Challenge

Roller bearing, self-acting device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

QUAKER CITY MACHINE CO.
RICHMOND, IND.

Mention the Florists' Exchange when writing.

Holds Glass Firmly
See the Point at PEERLESS
Glazing Points are the best. 75 rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DEER,
114 Chestnut St., Phila., Pa.

Mention the Florists' Exchange when writing.

CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY
Window Glass. Painters' Supplies.

32 Washington Ave., Pittsburg, Pa.
31st Ward,

Mention the Florists' Exchange when writing.

GREENHOUSE MATERIALS

The Best Quality and Work Guaranteed.

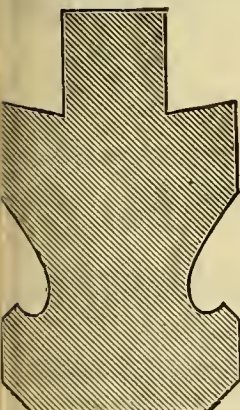
CYPRESS SASH BARS Absolutely clear, sun dried; cut to exact sizes.	HOT-BED SASH AND FRAMES Various styles and sizes. Ready for prompt shipment.
TENN. RED CEDAR POSTS In lengths as wanted.	VENTILATING APPARATUS It works like a charm.
PECKY CYPRESS BENCHES Economical and lasting. Coming into general use.	PIPE, FITTINGS, GUTTERS, GLASS And all supplies needed in new or reconstruction work.

Get our Estimates, Plans and Suggestions on Structures Proposed. Illustrated Catalogue sent postpaid.

FOLEY MFG. CO., 471 W. 22nd St., CHICAGO.

Mention the Florists' Exchange when writing.

GULF CYPRESS Greenhouse Material



Cut and Spliced Ready for Erection

Hot Bed Sash


Pipe, Fittings, Ventilating Apparatus

GREENHOUSE GLASS

We furnish everything for Building

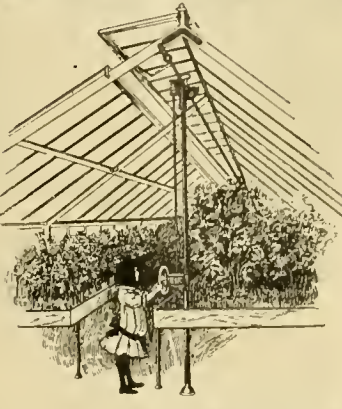
Heating Installed

Send for Prices and Catalogue



S. JACOBS & SONS, 1365 to 1373 Flushing Ave., Brooklyn, N.Y.

Mention the Florists' Exchange when writing.



We furnish high grade

VENTILATING APPARATUS

RAISING THE SASHES

In Greenhouses and other Buildings. By means of OIL-CUPS IT RUNS SMOOTHLY.

Send to-day to our New York Office for our Heating and Ventilating Catalogue; and for Greenhouse Construction Catalogue.

LORD & BURNHAM COMPANY

NEW YORK OFFICE: 1133 BROADWAY
GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, NEW YORK

Mention the Florists' Exchange when writing.

THE JENNINGS IMPROVED IRON GUTTER

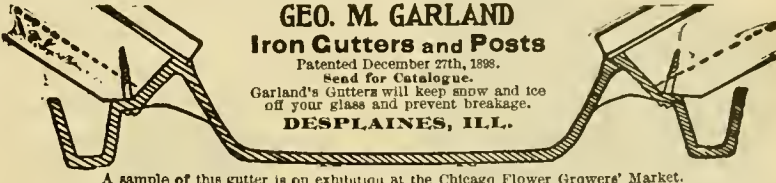
PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

DILLER, CASKEY & CO.

SUCCESSORS TO JENNINGS BROS.
S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.



GEO. M. GARLAND Iron Gutters and Posts

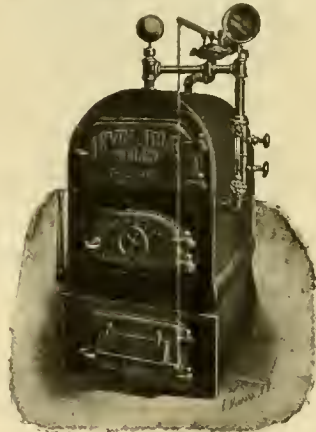
Patented December 27th, 1898.
Send for Catalogue.

Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.

A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

Mention the Florists' Exchange when writing.



Scollay Invincible Boilers

FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.

Horticultural building of every description.

JOHN A. SCOLLAY

72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.

Established 42 Years

Mention the Florists' Exchange when writing.



Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the best that Can be Produced

Catalogue, plans and estimates free on request.

A. DIETSCH CO., 615-621 Sheffield Ave., CHICAGO, ILL.

Mention the Florists' Exchange when writing.

KING CONSTRUCTION COMPANY

North Tonawanda, N. Y., and Toronto, Canada.

New Greenhouse Catalogue ready for distribution. Send for it.

Mention the Florists' Exchange when writing.

HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?



It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres. will sustain a weight of one hundred Pounds.

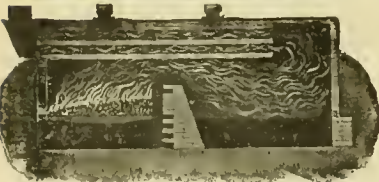
- No. 1 will fit from 2 to 6-inch pots 30c.
 - No. 2 will fit from 6 to 8-inch pots 40c.
 - No. 3 will fit from 8 to 12-inch pots 50c.
- By mail 10c. extra per doz. Sample pair 10c., postpaid. See last week's issue for advertisement of Florists' Letters, etc.

W. C. KRICK 1164-88 Greene Ave. Brooklyn, N. Y. Mention the Florists' Exchange when writing.

Kroeschell Bros. Co. IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention the Florists' Exchange when writing.

WHOLESALE TRADE LIST

- ASPARAGUS PLUMOSUS SPRENGERI and DEUMBENS, 3 in. pots, 75c. per doz., \$5.00 per 100.
- AMPELOPSIS YEITCHII, 3 in. pots, 75c. per doz., \$5.00 per 100; 4 in., \$1.50 per doz., \$10.00 per 100.
- CLEMATIS, large flowering variety, 2 years old, 5 in. pots, \$3.00 per doz.
- DIACAENA INDIVISA, 3 in., 75c. per doz., \$5.00 per 100; 4 1/2 in. pots, \$2.00 per doz.; 6 in. pots, \$3.00 per doz.
- GERANIUMS, scarlet, pink and white, 3 in. pots, 80c. per doz., \$4.00 per 100.
- HONEYSUCKLE (Halleana), 5 in. pots, \$1.50 per doz., \$10.00 per 100.
- IVY, hardy, large leaves, 3 in., 75c. per doz., \$5.00 per 100; 4 in. pots, \$1.50 per doz., \$10.00 per 100.
- MOON VINES, 3 in. pots, 75c. per doz., \$5.00 per 100.
- VINCAS, Variegated, 3 in., 75c. per doz., \$5.00 per 100; 4 1/2 in. pots, \$1.50 per doz., \$10.00 per 100.
- MYOSOTIS, clumps from open ground, 60c. per doz., \$4.00 per 100.
- PANSIES, separate colors, yellow, white and blue, \$2.00 per 100.
- POINSETTIAS, stock plants, dormant, 5 in. pots, \$1.50 per doz., \$10.00 per 100.
- CHRYSANTHEMUMS, best standard varieties, rooted cuttings, from soil, \$2.00 per 100.
- CARNATIONS, pot grown, per 100. Enchantress, \$4.10; Boston Market, \$2.50; Red Sport, \$3.00; Flamingo, \$3.00; The Queen, \$3.00; Mrs. Fisher, \$3.00. Strong rooted cuttings from soil, per 100. Flora Hill, Queen Louise, Scott, Joost, Crocker, \$1.50; Crane, \$2.00; Enchantress, \$3.00.
- CLEMATIS PANTICULATA, 4 in., \$1.50 per doz., \$10.00 per 100.
- NEW GERANIUM, "Telegraph," 2 1/2 in. pots, \$2.00 per doz.
- NEW DOUBLE DAINTIES, Alaska, California, Westralia, from 3-in. pots, \$2.00 per doz.
- STOKESIA CYANEA, from 3-in. pots, \$1.00 per doz.

Plants from 2 1/2 in. pots, \$3.00 per 100. Alternanthera, Asparagus Plumosus, Comorensis, Sprengerii and Decumbens, Alyssum, Little Gem, Antirrhinum white; Abutilon Savitzii, Ageratum, blue and white; Coleus, Verschaffeltii, Golden Bedder and fancy varieties, Cobaea Scandens, Clematis Panticulata, Dracena Indivisa, Eucynymus Radiata, Geranium Mme. Ballerol (strong) and Mrs. Parker; Golden Feather, Hydrangea Otaka and Thos. Hogg; Parlor Ivy, Impatiens Sultanii, Lobelia, dwarf blue; Nasturtium, dwarf; Petunias, double white; Phlox Drummondii, dwarf; Salvia, Sausseviara Zeylanica, Swainsonia sibe, Verbenae, miscellaneous varieties. 11th & Jefferson Ste., C. EISELE, PHILADELPHIA, PA.

GREENHOUSES.
MATERIAL FURNISHED
AND
MEN TO SUPERINTEND
ERECTION IF DESIRED.
CYPRESS SASH BARS
 ANY LENGTH UP TO 32 FEET LONGER.
THE J. T. Stearns Lumber Co.,
 NERONSET, BOSTON, MASS.



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For Hot Water or Steam
 HOT WATER Radiation from 4,200 Square Feet and Up.
 STEAM Radiation from 2,600 Square Feet and Up.

Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.

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 233 Mercer St., NEW YORK.
 ESTABLISHED 1844.

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Pierson Boilers

For Steam and Water are unsurpassed for efficiency and economy

Messrs. Righter & Barton, Madison, N. J., write: "August 5, 1904. The two 'Pierson' sectional hot water boilers installed for our new houses one year ago gave exceptional satisfaction during the past winter, the most severe for many years, easily fulfilling what was expected of them, at the same time proving to be economical."
 "We found them very easy to manage, that they responded promptly and heated the water in short time, thus giving splendid control of temperature in houses when sudden drop took place outside."

This is only One of Many
WE ALSO MANUFACTURE AND SUPPLY
FITTINGS, VALVES, PIPE AND EVERYTHING FOR HEATING
 Write for Catalogue and Prices

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H. BAYERSDORFER & CO.
Florists' Supplies — Manufacturers of **Novelties**
 Send for Catalog 50 to 56 North Fourth Street, PHILADELPHIA

STANDARD FLOWER POTS
THE WHILLDIN POTTERY COMPANY
 PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.

CROWERS

YOU want to have the reputation for PERFECT BLOOMS. YOU want your TRADE TO INCREASE and your REPUTATION to spread. You can secure all this by using NICOTICIDE in your houses, either as a fumigant or spray. It will clean out the pests, no doubt of that, and the experience of users through many years shows it is SAFE. The cost per can is not so low as some other preparations, but the WORK DONE is so great — THAT'S THE POINT! Send along your address and we will see if we cannot make you one of our customers.

The name of OUR preparation is NICOTICIDE.
THE MAXWELL MFG. CO., Department F., LOUISVILLE, KY.

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SUMMER IN WINTER
 BY USING
 Standard Greenhouse Boilers
 One cent gets our Catalogue
GIBLIN & CO., Utica, N. Y.
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 NORTH TONAWANDA, N. Y.
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 Send for catalogue Get the best Greenhouse Material, Composition Posts
DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.
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 Manufacturer of **Floral Metal Designs**
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 FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK
 OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.
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THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 17

NEW YORK, APRIL 29, 1905

One Dollar Per Year

Hardy Field-Grown Roses

Extra Strong Two-year-old Plants in Splendid Condition

Strong plants, which if planted at once will bloom freely this summer. We offer a list of extra choice varieties at \$2.00 per dozen; \$12.00 per 100, as follows: Margaret Dickson, Baroness de Rothchild, Ulrich Brunner, Magna Charta, Mrs. John Laing, Prince Camille de Rohan, Capt. Christy, Jules Marguttin, Perles des Blanchés, White Rose, Crested Moss, Rugosa Alba, Rugosa Rubra, etc., etc. Also

FRAU KARL DRUSCHKI This is a queen among white roses, of the very largest size, pure snowy white, long pointed buds with shell-shaped petals, opening large and full. A continuous and free bloomer. The finest hardy white rose in cultivation. \$5.00 per dozen; \$30.00 per 100.

CAPT. HAYWARD Extra choice. Bright carmine-crimson. Very large. \$2.50 per dozen; \$16.00 per 100.

MRS. R. G. SHARMAN-CRAWFORD Deep rosy pink. \$2.50 per dozen

SOLEIL D'OR Golden orange-yellow. \$2.50 per dozen.

MONTHLY AND HYBRID TEA ROSES Strong field-grown plants. \$2.50 per dozen; \$16.00 per 100, as follows: La France, Gruss an Teplitz, Maman Cochet, Belle Siebrecht, Hermosa, Gloire de Dijon, American Beauty, Kaiserin Augusta Victoria, etc., etc.

CRIMSON, OR BABY RAMBLER (Mrs. Norbert Levasseur). Strong field-grown plants. \$6.00 per dozen.

STANDARD, OR TEA ROSES 12 best named sorts; fine collection. \$5.00 per dozen; \$35.00 per 100.

A PELOPSIS VEITCHII. Extra strong field-grown plants. \$12.00 per 100.

ARISTOLOCHIA SIPHO (Dutchman's Pipe). Strong field-grown plants. \$3.50 per dozen. \$12.00 per 100.

HYDRANGEA PANICULATA GRANDIFLORA. Strong field-grown plants. \$12.00 per 100.

CLEMATIS Jackmanni, Henryi, Duke of Edinburgh, Hybrida Sieboldi, etc. Strong two-year-old field-grown plants. \$3.50 per dozen; \$25.00 per 100.

CLEMATIS Ville de Lyon. Few large red-flowered clematis. \$9.00 per dozen.

AZALEA MOLLIS. Fine bushy plants, well huddled. \$4.50 per dozen; \$30.00 per 100. Also large stocks of Colorado Blue Spruce, Reinosporas, Boxwood in bush and Pyramidal form, Hardy Phloxes, etc., etc.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

GRAFTED STOCK NOW READY.

KAISERIN and CARNOT

Exceptionally large plants for early Summer flowering. Now is the time to plant to get immediate returns.

BRIDE and BRIDESMAID

Extra large plants now ready for shipment.

I have a splendid lot of

OWN ROOT STOCK

OF

Bride, Bridesmaid, Kaiserin, Carnot and American Beauty

All clean, healthy, vigorous stock. Send for sample and prices.

W. H. ELLIOTT, Brighton, Mass.

SURPLUS PERENNIALS

Or HERBACEOUS PLANTS For Present Planting

We have a few thousand extra plants of the following desirable Standard Varieties of Perennials, most of which are suitable for Florists' use either as pot plants, cut flowers, or outdoors planting etc. Can make shipment promptly on receipt of order. Mention this ad, and we will ship 10 of any one variety at 100 rates

HARDY PERENNIAL PLANTS

	Per 100		Per 100
Achillea, The Pearl, 3 in. pots.....	\$4.00	Funkia undulata media picta, field-clumps.....	\$9.00
Agrostemma coronaria, field-grown.....	4.00	Gaillardia grandiflora, 4 in. pots.....	4.50
Alys-Jovis, field-grown.....	5.00	Genista Andreann. Nice Stock.....	25.00
Alyson saxatile compactum, field-grown.....	8.00	Gypsophila monostroma, 3 and 4 in. pots.....	10.00
Anthem. tinctoria, 3 in. pots.....	4.00	Heuchera sanguinea, 3 in. pots.....	7.50
Aquilegia canadense..... One year, field-grown.....	5.00	Hibiscus moenchetos, field-grown clumps.....	5.00
chrysantha.....	5.00	Crimson Eye, field-grown clumps.....	5.00
alba.....	5.00	Hesperis matronalis, field-grown clumps.....	4.00
cernua.....	8.00	candidissima, field-grown clumps.....	4.00
hybrida.....	8.00	Hypericum Moserianum, extra strong divisions.....	8.00
nivea grandiflora.....	8.00	Iris Germanica, in 22 named varieties, dormant roots.....	3.00
Skioneri.....	6.00	Lychen chalcedonica, field-grown.....	6.00
vulgaris.....	5.00	Mourada didima, 3 in. pots.....	6.00
alba plena.....	6.00	Myosotis alpestris, field-grown.....	4.00
Chrysanthemum maximum, 3 in. pots.....	6.00	Victoria, field-grown.....	4.00
Clematis Flammula, 3 years, 75c. per doz.....	6.00	palustris semperflora.....	4.00
" Vitalba.....	75c.	Nepeta glechoma hederacea variegata, 2 1/2 in. pots.....	6.00
Coreopsis lanceolata grandiflora, 4 in. pots.....	4.00	Physostegia virginica, field, strong divisions.....	6.00
Delphinium Argosy, 3 in. pots.....	15.00	Phlox decussata, 22 named vars., 3 in. pots.....	5.00
Belladonna, 3 in. pots.....	15.00	auriculata, named var., 2 1/2 in. pots.....	5.00
Formosum, field-grown.....	6.00	Poppy Orientale, 3 in. pots, in variety.....	5.00
elatum hybridum, field-grown.....	8.00	Prioula superba, large plants.....	6.00
zaili 3 in. pots.....	15.00	Rudbeckia fulgida, field-grown.....	6.00
Daisy Shaets, 3 in. pots.....	4.00	Golden Glow, field-grown.....	2.50
Dianthus barbatus, field-grown clumps.....	4.00	Salvia argentea.....	6.00
Napoleon III., hardy pink, 2 1/2 in. pots.....	10.00	Santolina incana.....	4.00
plumarius, Scotch pink, 2 1/2 in. pots.....	5.00	Thalictrum aquilegifolium, extra strong divisions.....	8.00
Eupatorium ageratoideis, field-grown clumps.....	5.00		
Funkia anrea var., field-grown clumps.....	10		

ROSES DORMANT BUDDED and OWN ROOT FIELD-GROWN H. P. & H. T. See our advertisement in previous issue. We have a quantity of nearly all varieties to serve you from at low prices.



CLUCAS & BODDINGTON CO. 131 WEST 23d STREET, N. Y. CITY
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

CARNATIONS

Last Call

	From Sand	2-in. pots
	Per 100	Per 1000
LAWSON	3000	
NELSON FISHER	1500	
".....	500	\$6.00
ENCHANTRESS	1000	4.00
JUDGE HINSDALE	1000	5.00
".....	500	6.00
MRS. PATTEN	500	6.00
".....	250	6.00
OCTOROON	1000	6.00
".....	500	6.00
THE PRESIDENT	500	7.00
LIEUT. PEARY	2000	12.00
".....	300	12.00
LADY BOUNTIFUL	1000	6.00
".....	250	6.00
THE BELLE	300	6.00
MACKINAC	1000	5.00
".....	500	5.00
GOLDEN EAGLE	500	5.00
".....	500	6.00
CARDINAL	500	12.00

25 at 100 rate; 250 at 1000 rate.

All first-class well-rooted stock. Remember you can save 5 per cent. from the above prices by sending check with your order.

COTTAGE GARDENS COMPANY, INC.

C. W. WARD, Manager Queens, Long Island, New York



ROSY PROPOSITION

\$5.00 per 100, while they last

Caroline Testout, Climbing La France, Chas. Wood, Red Moss, Marie Henrietta, Baron Bonstettin, Gabriel Luizet, Farquhar, Dorothy Perkins, grafted stock.

SHEEP MANURE

Fresh consignment from the ranches, thoroughly pulverized and sterilized, 100 lbs., \$1.25; ton, \$20.00

- BAMBOO CANES, extra fine clean stock, 6 to 8 feet.....per 1000, \$5.00
- RAPHIA, long braids, good, bright sample.....per lb., 15c.; per 100 lbs., \$12.00
- RUBBER HOSE, "Liberty" brand, 3/4 inch.....per foot, 10c.
- LILYUM SPECIOSUM RUBRUM.....per 100, \$6.25
- " " ALBUM.....per 100, \$6.50
- BERLIN and HAMBURG PIPS.....per case (2500), \$20.00; per 1000, \$9.00
- GLADIOLUS, all the best colors, in mixture.....per 1000, \$6.50
- TUBEROSES, Excelsior Pearl, dwarf, 3 to 4 in. diameter.....per 1000, \$6.00
- PEONIES, Double Chinese, mixed varieties.....per 100, \$12.00
- DAHLIAS, Double, extraordinarily fine collection in mixture.....per 100, \$6.50

WM. ELLIOTT & SONS, NEW YORK.

Mention the Florists' Exchange when writing.

1904 CROP ASPARAGUS SEED

Plumosus Nanus.....	Per 100	Per 1000
" Robustus.....	55c.	\$3.50
" Sprengerl.....	85c.	7.50
" Sprengerl.....	15c.	1.00

We are headquarters for all the best flower seeds; 100 page catalogue free.

MOORE & SIMON, Seed Growers

207 Market Street, PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

NEW CROP Flower Seeds

ASTERS—Best German Grown

Queen of the Market.....	1/4 oz.	Oz.
Victoria.....	15	\$.50
Giant Victoria.....	50	1.75
Peony Fl. Perfection.....	60	2.00
Simplex Branching, Home-Grown.....	45	1.50
Above in Separate Colors or Mixed.....	20	.60

Fresh Tobacco Stems.....\$1.50 per bale of 300 lbs.
W. C. BECKERT, Allegheny, Pa.
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Clearing Out Sale. Need the Room!

H. P. ROSES

in fine condition, as long as stock on hand, \$70.00 per 1000; \$40.00 per 500; \$9.00 per 100, in the following varieties: Baroness Rothschild, Duke of Edinburgh, Magna Charta, Perle des Blancches, Pæonia, General Jacqueminot, Victor Verdler.

CRIMSON RAMBLERS extra strong, \$12.00 per 100.

CANNAS Dry roots, Austria and Burbank, \$15.00 per 1000.

Prices on all other Summer and Fall Stock cheerfully given by F. W. O. SCHMITZ, Prince Bay, N. Y.

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REED & KELLER

122 West 25th St., New York

RUSTIC WORK

ALL KINDS

Tables, Chairs, Settees, Window Boxes, Tree Stumps, Stump Tubs, Bird Houses, Pedestals, Rustic Fence, Etc., Etc. Superior Workmanship.

Rustic Hanging Baskets

Price, each.....	Size..	8	9	10	11	12	13	14
" per doz.....		\$0.50	\$0.65	\$0.80	\$0.90	\$1.10	\$1.25	\$1.50
		5.50	6.75	8.75	9.75	11.35	13.00	17.00

Importers and Manufacturers of All Kinds of **FLORISTS' SUPPLIES**
NOVELTIES CONSTANTLY ON HAND
Mention the Florists' Exchange when writing.

Gladiolus Bulbs

MIXTURES		NAMED VARIETIES	
	Per 100	Per 100	1000
Groff's Hybrid Seedlings, mixed.....	\$2.00	\$15.00	\$130.00
Meadowvale, mixed.....	1.00	10.00	14.00
Generl, mixed.....	.75	7.00	15.00
Lemolne's, mixed.....	2.00	15.00	12.00
Lemolne's, extra fine mixed.....	2.50	20.00	15.00
Childs, mixed.....	2.00	18.00	16.00
Pink and Rose, mixed.....	1.25	11.00	12.00
Yellow and Orange, mixed.....	3.50	30.00	22.00
Striped and Variegated, mixed.....	2.25	20.00	15.00
White and Bright, mixed.....	1.40	12.00	5.00
Scarlet and Red, mixed.....	1.25	10.00	25.00

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK
Branch Store, 404 East 34th Street, New York

1905 Crop Now Ready ASPARAGUS SEED

Plumosus nanus, lath-house grown, \$1.75 per 1000. Sprengerl, 75c. per 1000.

SMILAX SEED, \$1.25 per lb. E. FLEUR Oak Grove Nurseries

406 North Los Angeles Street, LOS ANGELES, CAL
Mention the Florists' Exchange when writing.

Summer Flowering BULBS

Ismene Grandiflora.....	100	1000
Madelra Vines.....	\$8.00	\$50.00
Spotted Callas.....	1.00	6.00
Tritoma Pfizerl.....	3.00	25.00
Gladiol, mixed, 1 1/4 in. diam.....	7.00	60.00
	.60	5.00

HEADQUARTERS FOR LILIES, APIGS, CALADIUMS, ETC.
Eight per cent. discount for cash.
Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.
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THE BEST ADDRESS FOR DUTCH BULBS AND PLANTS

K. VAN BOURCONDIËN & SONS
Wholesale Bulb Growers
HILLECUM, HOLLAND
Until May write to

K. H. VAN BOURCONDIËN
Care Maltus & Ware,
136 Water St., New York
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CHOICE STOCK
Samples and Prices on Application

VAUGHAN'S SEED STORE

84-86 Randolph St. 14 Barclay St.
CHICAGO NEW YORK
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LAWN GRASS SEED

in Bulk and Packages

Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of

GLADIOLI AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.

Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
Mention the Florists' Exchange when writing.

ONION SETS

BLOOMSDALE FARM STOCK

Very Superior, hard, dry, not sprouted, clean. Few if any equal in these respects.

ASK FOR SAMPLES AND PRICES

D. LANDRETH SEED COMPANY - BRISTOL, PA.
Mention the Florists' Exchange when writing.

PRIMROSE SEED

Improved Chinese

Finest grown, large flowering fringed, single and double, mixed, 500 seeds, \$1.00; half pkt., 50cts. Have also the varieties separate.

Primula Obconica, grand flm. Finest improved, large flowering, fringed, mixed, 1000 seeds, 50c.

PANSY, FINEST GIANTS

The best large flowering varieties, critically selected. Mixed, 5000 seeds, \$1.00; half pkt., 50 cts.; highly praised by our many florist customers.

5000 Seeds of GIANT "MME. PERRET" added to every \$1.00 pkt. of Giant Pansy Seed.

CINERARIA. Finest large flowering dwarf, mixed, 1000 seeds, 50 cts.

PANSY PLANTS. Finest Giants, mixed, strong, in bud and bloom, \$1.50 per 100.

JOHN F. RUPP, THE HOME OF PRIMROSES, Shiremanstown, Pa.
Mention the Florists' Exchange when writing.



SAGO PALM STEMS

(Cycas Revoluta)

Stems range in weight from 1 lb. to 10 lbs. each.

Per Pound 12c. 25 Pounds, \$2.25
10 Pounds, \$1.00 100 Pounds, \$9.00
Special Quotation on case lot of 300 lbs.

JAPANESE FERN BALLS

Extra large size, 7-9 inch in diameter Each Doz. 100
Small size, 5-7 inch in diameter 25c. \$2.75 \$20.00
20c. 1.75 13.00

JOHNSON & STOKES

217-219 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

NARCISSUS

For Early Forcing

We have at our nurseries extra large stocks of Emperor, Ornatus, and other of the leading varieties. Write for our list of reduced prices.

HUBERT & CO. N. LE PACE, Rep.
Mt. Vernon, N. Y.
Mention the Florists' Exchange when writing.

FISCHER'S

GRAND FREESIA PURITY

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Bulbs no larger than dried wax beans of this grand Freesia make as large a flower as the large bulbs, only the stems are shorter. All growers should try some of this Queen of Freesia, for when "once grown always grown." Price for large bulbs, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y.
Mention the Florists' Exchange when writing.

FRESH Fernspores

All sorts of Adiantum, Cyrtodium, Davallia, Gymnogramma, Pteris, Nephrolepis; also Cibotium Schiedel in Freshest and Best quality, at 25c. the pkt.; 10 pkts. in sorts, \$2.00. Send for list. For Bargains see our advt. in issue of April 22.

H. H. BERGER & CO., 47 Barclay St., New York

Mention the Florists' Exchange when writing.

WANTED

A reliable firm as Agents to sell our BERMUDA LILY BULBS on commission.

Stock guaranteed and ability to meet all competitors.

References required.

R. DARRELL & Co.
Hamilton, Bermuda

Mention the Florists' Exchange when writing.

NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.

Mention the Florists' Exchange when writing.

TUBEROSES



Double Dwarf Pearl, Hand-Picked Bulbs, Blooming, Size 3-4 in., Special Offer, F. O. B. New York:

1,000 for \$3.00
2,000 for 5.50
3,000 for 7.50
5,000 for 11.00

Per 100

LILIUM RUBRUM 7-9 in... \$6.00
9-11 in... 8.00
11-13 in... 11.00

LILIUM ALBUM 7-9 in. 6.00

LILIUM MELPOMENE 7-9 in... 6.00

84 Randolph St. CHICAGO VAUGHAN'S SEED STORE 14 Barclay Street NEW YORK

Mention the Florists' Exchange when writing.

PRIVATE

	Per 100	1000
California, 12-15 in.....	\$1.25	\$9.00
" 18-24 in.....	1.75	15.00
" 2-3 ft., good.....	2.50	20.00
" 2-3 ft., 3 years.....	2.75	25.00
" 3-4 ft., heavy.....	4.50	40.00
" 4-5 ft.....	7.50	65.00

	Per 100
HYDRANGEAS	
P. G., 2-3 ft., good.....	\$6.00
" 3-4 ft., fine.....	9.00
" 3-4 ft., XX fine.....	11.00

ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

ATCHISON, KAN.—The Mangelsdorf seed house contemplates building another warehouse on Main street.

SHENANDOAH, IA.—The Western Seed Company, of this city, J. R. Ratekin, manager, has been closed up and the business placed in the hands of H. I. Faskett as receiver.

MOSCOW, IDAHO.—M. J. Shields & Co., the wholesale seed firm of this place, has filed charges with the postal authorities alleging that someone in the local post office burned part of the firm's mail, consisting of 700 postal cards at one time on the twenty-second day of February, 1905. The matter is being thoroughly investigated.

DES MOINES, IA.—This week the Iowa Seed Company celebrates the thirty-fifth anniversary of its business in Des Moines. The business was first established in a small way by S. L. Fuller, in 1870, and the name changed to the present title in 1886. This week is also the twenty-eighth anniversary of the connection with business of Charles N. Page, president of the American Seed Trade Association, who has been the treasurer and general manager for nearly twenty years.

BULB GROWING IN CALIFORNIA.—In our issue of April 15 we presented a picture giving a partial view of a freesia field on the ranch of Rees & Comper, of Long Beach, Cal. The following further particulars concerning this firm's business are now submitted:

"Our ranch is situated on the southern slope of Signal Hill, one of the old landmarks of Los Angeles County, 2½ miles from the city of Long Beach, overlooking the Pacific ocean and reached from Los Angeles City in thirty-five minutes by the Huntington Beach branch of the Pacific Electric Railway, which passes through the ranch. We have some sixteen acres under close cultivation, about one-half being devoted to flowering bulbs for the Eastern markets, and the remainder to choice vegetables for the Los Angeles markets. Our bulb crop is principally of freesias, of which we are now preparing to harvest four acres. We also raise in quantities the celebrated Grand Duchess oxalis, Bermuda, Buttercup, amaryllis in varieties, including Mr. Comper's celebrated hybrids, many measuring eight inches and over in diameter, also hybrid gladioli, tritonia, chlidanthus, and many other kinds.

"Our cultivation is principally by horses where rows are wide enough to utilize them, though a great deal has to be done by hand—weeding and digging where beds are small and rows narrow, in experimental beds mostly. Our soil is of the best, being of a light sandy nature, that takes water readily and is quickly susceptible to cultivation. Our water is derived from artesian wells, and is piped all over the place, and can be used either in flumes, ditches, or by sprinkling.

"Our climate is equable, only having

	Per 100
IVY	
3½ in. pots.....	\$8.00
2 in. pots.....	3.00
Field grown plants, 18-24 in.....	5.00
ROSES	
2 in. pots, X fine.....	Per 100
Maman Cochet, pink and white X fine.....	\$3.00
Clothilde Soupert, X fine.....	3.00

Michell's Prize Seeds

These strains of CINERARIAS AND PRIMULAS are the finest that can be procured from the best European and American specialists.

CINERARIA GRANDIFLORA	½ Tr. Pkt.	Tr. Pkt.
Prize Dwarf.....	\$0.90	\$1.00
" Medium Tall.....	.60	1.00
James Giant Strain.....	.60	1.00
PRIMULA SINENSIS		
Alba Magnifica, White.....	.60	1.00
Holborn, Blue.....	.60	1.00
Kermesina Splendens.....	.60	1.00
Rosey Morn, Pink.....	.60	1.00
Michell's Prize, Mixed.....	.60	1.00

For a complete list of Seasonable Seeds consult our Wholesale Illustrated List, mailed free to all Florists. Write for a copy.

HENRY F. MICHELL CO.
Seed Growers and Importers
1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

BULBS

For Forcing
Virginia-grown Narcissus and Daffodils
POAT BROS., Bulb Growers
ETTRICK, VA.

Mention the Florists' Exchange when writing.

RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.
W. W. RAWSON & CO.
Seedsmen,
12 Faneuil Hall Square,
BOSTON, MASS.

STRAWBERRY PLANTS

Strong young plants, well packed, Wm. Belt, Downing, Bubach, Haverland, Brandywine, Gandy, Bismarck, Nick Ohms, New York, Lester, Lovett, Success, Reba, Robie, Joe, Marshall, Climax, Fairfield, Storm's Late, Champion, Sharpless, 50c. per 100; \$2.50 per 1000. Duquesne, Tennessee, Parsons, Kansas, Lovett, 50c. per 100; \$2.00 per 1000. 5000 of one variety for \$8.00. Not more than four varieties in 1000 at 1000 rates.
Extra Strong Guthbert RASPBERRY, 75c. per 100; \$3.00 per 1000. Miller, 75c. per 100; \$5.00 per 1000. Lovett and Lucretia BLACKBERRY, 75c. per 100; strong plants.

CHAS. BLACK, Hightstown, N. J.
Mention the Florists' Exchange when writing.

CINERARIA GOLD MEDAL MIXTURE

Tall or Dwarf, ½ trade packet, 60c.; trade packet, \$1.00.

PRIMULA Fringed Chinese

Alba magnifica, Chiswick Red, Blue, Kermesina splendens, striped or mixed, ½ trade packet, 60c.; trade packet, \$1.00.

ALL OTHER SEASONABLE SEEDS.
Let us figure on your wants in
FALL BULBS

HENRY PHILLIPS SEED CO.
TOLEDO, OHIO
Mention the Florists' Exchange when writing.

CRIMSON RAMBLER 3500 No. 1 1/2 \$7.50 per 100
 6300 " 2 6.00 "

1000 PÆONIA TENUIFOLIA \$15.00 per 100.

HYDRANGEA P. G. 3-4 ft., \$9.00 per 100; 2-3 ft., \$6.50 per 100;
 2-2 1/2 ft., \$5.50 per 100; 1 1/2 ft., \$3.50 per 100.

Ask for Price List for full assortment.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.



RHODODENDRON MAXIMUM and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.

See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.

NOTICE

To whom it may concern: RALPH M. WARD & CO., New York City, having purchased my crop of Bermuda Harrisii Bulbs for the season of 1905, have the sole right to sell them in the American and Canadian markets and to offer them as

PENISTON'S BERMUDA HARRISII

March 31, 1905.

CLARENCE PENISTON, Hamilton, Berm.

WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
17 Battery Pl., NEW YORK

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BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

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Asparagus Plumosus Nanus

1905 Crop, equal to greenhouse-grown, \$1.50 per 1000 seeds.

A. ABERCROMBY, Los Angeles, California
Station D

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QUALITY SEED BULBS PLANTS
SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
342 West 14th St., New York.

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Thorburn's Seeds

CYCAS REVOLUTA

\$8.00 per 100 lbs.

Lilium Speciosum Melpomene

7-9 inch size, 200 in a case, \$6.00 per 100.

LILIAM AURATUM

9-11 inch size, \$6.00 per 100.

Cold Storage Valley Pips

in cases of 3,000, \$10.00 per 1000.

LILIAM HARRISII

LILIAM LONGIFLORUM

LILIAM LONGIFLORUM MULTI-FLORIUM

Price according to quantity upon application.

J. M. THORBURN & CO.

36 Cortlandt St. New York

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had three very light frosts this season, and no damage done whatever.

"We are now preparing to harvest our freesia crop, which is a laborious operation, the bulbs having to be dug by hand and sifted in coarse screens two by four feet, then the bulbs picked in proper condition to thoroughly clean, out and carried to drying tables until grade and pack for shipment."

European Notes.

Forty-two hours' rain at a stretch is a little too much of an April shower, and has served to dampen our spirits very considerably, and at the same time over-fill our water courses. As, however, the temperature continues warm (April 13 was the warmest day since October 16) vegetation continues to make very rapid progress, and an early season seems probable.

The onion boom is over. The flooding of our western markets with Egyptian produce of fine quality has caused a reduction in price of fully 50 per cent. While it lasted, it distinctly benefited the seedsmen, both as regards prices and quantity of seed sold. In all the leading lines the clearance is complete, and as the acreage planted for seed is very small, much higher prices must be paid next year.

The trade in agricultural seeds has opened up in good style, and already some of the most useful varieties are difficult to procure. A remarkable change in the public taste is evidenced by the extraordinary trade in the intermediate varieties. In England, Golden Tankard and Tabor's Gatepost; in Germany, the Eckendorf; and in France, the giant yellow intermediate have sold so well that reliable stocks are practically exhausted. This leads, unfortunately, to a lot of indifferent goods being put upon the market, and the sale of these, with the resulting disappointment, does an immense amount of harm, as it leads unthinking farmers to condemn what they would otherwise approve.

Turning to a more agreeable subject, one may venture to express the hope that the limit of size in cineraria blooms has at last been reached. During the past few days Mr. James has placed before the writer individual blooms measuring six inches from tip to tip. The flowers were of good form and substance, and of the ringed type so much esteemed in your country, but as they were growing on very dwarf plants they were too crowded to be pleasing. A giant pure white self, about three and one-half inches in diameter, will doubtless prove valuable for florists. In cyclamen the only notable feature has been the vastly improved form of the Papilio or butterfly strain, and the appearance of a deep red crested variety known as the Bush Hill pioneer strain.

The milder weather has brought the pansies on very rapidly. Madame Perrett still leads the way, but a giant form of Fle King runs her very close. Dobbies are repeating their last year's triumphs with their superb strain, which, although grown in Scotland, have not a particle of Scotch blood in

ROSES! CLEMATIS!

To close out our surplus on these items we are making low quotations on

Strong 2 Year Dormant Plants—Crimson Rambler, White Rambler, Pink Rambler, Yellow Rambler, Mme. G. Lulzet, Magna Charta, Frau Karl Druschki.

Strong 2 Years—Clematis Jackmanni, Henryii, Mme. E. Andre, Ramona. Ampelopsis Veitchii. Write for prices.

Bride, Perle, Cochet Pink and White, Golden Gate and many others, from 5 in. pots, at \$10.00 per 100.

W. & T. SMITH COMPANY, Geneva, N. Y.

Mention the Florists' Exchange when writing.

them. The lovely sweet-scented violas, from the same enterprising firm, are beyond all praise.

EUROPEAN SEEDS.

HOLLAND BULB NOTES.—Recent hail and snowstorms caused a little uneasiness, and did some damage. The flowers of hyacinths were heavily damaged and are cut off now. The foliage of hyacinths and tulips has apparently suffered from the severe cold, and shows signs of the sickness which we call "fire." If we cannot suppress it by cutting away the infected parts of the leaves, it will cause considerable loss.

This year trams and trains were not so crowded with visitors to our flower fields as in previous years, on account of rainy weather on the two Sundays on which the visits were made.

Last week the green sales of hyacinths commenced. There was a good demand especially for white, red and pink, and high prices were obtained. Up till now the bulbs generally look very well, but I fear that in a few weeks tulips and hyacinths will show that they suffered more than we think. In Europe there is a great demand for our bulbs this season on account of the failure of French cut flowers last winter.

J. B.

CATALOGUES RECEIVED.

HERENDEEN MANUFACTURING COMPANY, GENEVA, N. Y.—Catalogue of the Furman Round Sectional Boilers. Beautifully printed and illustrated. The adaptability of the Furman Boiler for the burning of crushed coke as a fuel is an interesting feature of the catalogue. It is stated that the ordinary gas-house coke is not nearly so good as the small size foundry coke for this purpose.

WOOD BROTHERS, Fishkill, N. Y.—Trade List of Plants and Rooted Cuttings.

CANNAS

Trns, round, selected roots, 2, 3 and more eyes, Alemania, Austria, Italia, P. Merquand, Robnets, red leaf, \$2.00 per 100; \$15.00 per 1000. Mrs. Kate Gray, new, orchid-flowered, 6-7 in. across, scarlet overlaid with gold; Martha Washington, dwarf, finest pink; Black Beauty, etc.; \$3.00 per 100; \$25.00 per 1000.

DAHLIAS field-grown, leading kinds, for cut-flowers named whole roots, \$3.50 per 100; \$30.00 per 1000.

Shellroad Greenhouses, Grange P. O., Balto., Md. Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.

Catalogues free on application.

WEEBER & DON, Seed Merchants and Growers, 114 Chambers Street, NEW YORK

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Catalog Engravings
and ILLUSTRATIONS
That print FAMILY. That's the kind we make—have been since '71.
JAS. M. BRYANT Horticultural Engraving and Printing
706 Chestnut Street, PHILADELPHIA, PA.

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CALIFORNIA PRIVET!

Very fine stock of above at extremely low prices. Trees, Shrubs, Vines, etc., in assortment.

SEND FOR WHOLESALER LIST.

SHREWSBURY NURSERIES, Eatontown, N. J.

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COMING EXHIBITIONS.

PENNSYLVANIA HORTICULTURAL SOCIETY.—The schedule of prizes for the Fall exhibition, which occurs November 7 to 11 inclusive, has been issued by Secretary David Rust. The annual show of the Chrysanthemum Society of America will be held in conjunction with this exhibition. The local society offers its usual inviting list of premiums, and so far those of the C. S. A. are as follows, competition being open to all:

Vase of six blooms, of variety Mrs. William Duckham. Three prizes. Gold, silver gilt and silver medal offered by W. W. Wells, Earlswood, Surrey, England.

Six blooms each, of six varieties, introduced in 1904 and 1905. One prize silver cup, offered by F. R. Pierson Co., Tarrytown, N. Y.

Twelve blooms, with stems not less than twelve inches long, of any of the introductions of 1905. Three prizes, \$12, \$8, \$5. Offered by C. H. Totty, Madison, N. J.

Copies of the schedule can be secured from Secretary Rust, Horticultural Hall, Broad street, Philadelphia, Pa.

ADVERTISE

IN THE

Premium Schedules

OF THE

Newport Horticultural Society's

TWO EXHIBITIONS

To be held in the Casino, June and August

Page, 6x9 ins., \$10.00; Half page, \$5.00;

Quarter page, \$3.00

Mail copy before May 25 to

David McIntosh, Sec. Exchange Newport, R. I.

Mention the Florists' Exchange when writing.

SWEET POTATO PLANTS

NOW ready, a large stock of stout, healthy plants. **CEDARVILLE**, an improvement of Yellow Nansemond. An abundant bearer of handsome, rich, yellow tubers of medium size and comely shape, \$1.00 per 1000.

A NEW EARLY GOLDEN SWEET POTATO

In this we have the Ideal Sweet potato for early market and home use. The color is a beautiful golden yellow, very sweet and palatable and a tremendous yielder of uniform tubers of just the proper shape and size, \$2.25 per 1000.

BIG STEM JERSEY Early, bright yellow and very productive, \$1.50 per 1000.

PIERSON Extremely early and the greatest yielder of any variety in cultivation. The tubers are light yellow or straw colored, of good shape and fair quality; a splendid keeper, \$2.00 per 1000.

VINELAND BUSH Grows in true bush form, yellow, productive, of good shape and fine quality, \$2.25 per 1000.

Red Nansemond, or Red Jersey per 1000. Pierson, Hayman, Early Red, Spanish, Belmont, Nancy Hall, Vineland Bush and White Bush, 50c. per 100, postpaid.

H. AUSTIN - Felton, Del.

Mention the Florists' Exchange when writing.

MOON VINES

A. W. SMITH'S HYBRIDS,
\$5.00 per 100.

GODFREY ASCHMANN, 1012 Ontario Street, Philadelphia, Pa.
Wholesale Grower and Importer of Pot Plants.
Mention the Florists' Exchange when writing.

AT BARGAIN PRICES

175 Magnolia Purpurea, from 2½ to 6 feet high, very bushy.
60 Magnolia Kobus, 4 to 8 feet tall, 3 to 5 feet through.

J. R. FREEMAN

512 13th STREET, N. W., WASHINGTON, D. C.
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Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.
Mention the Florists' Exchange when writing.

KOSTER & CO.

Hollandia BOSKOOP, HOLLAND Nurseries
Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.
Pot-Grown Plants for Forcing.
RHODODENDRONS, H. P. ROSES, Etc.
Catalogue free on demand.
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CHOICE CALIFORNIA PRIVET

Per 100 1000
1 year old, 2 to 3 ft., heavy..... \$2.00 \$18.00
3 " " 1½ to 2 ft., well branched, 1.50 13.00
3 " " 1 to 1½ ft., " " " 1.00 9.00
Light grades of above sizes, 20 per cent. reduction.
Eaching free. Cash with order. Prompt shipments. Lots of 3,000 up, 10 per cent. reduction from all prices.

ATLANTIC COAST NURSERIES, Asbury Park, N. J.
Office, 808 Fourth Avenue
Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.
Mention the Florists' Exchange when writing.

BOXWOOD

For Edging

Bushy, transplanted plants, 6-8 in. per 100, \$6.00; per 1000, \$40.00

O. V. ZANGEN, Hoboken, N. J.
Mention the Florists' Exchange when writing.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS

ROCHESTER, N. Y.

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Azalea Amoena

Ornamental Trees and Shrubs in Great Variety
Ask for Trade List

SAMUEL C. MOON, Morrisville, Pa.
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BURBANK'S PHENOMENAL BERRY TIPS \$2.00 Per Dozen
\$10.00 Per 100
Send for Price List, Illustration and Description to

A. MITTING
Kennon Street SANTA CRUZ, CALIF.
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LARGE TREES AND SHRUBS

MAPLES, Norway, Silver, Negundo, Scarlet, 2 to 4 inches.
LINDENS, American, European, 2 to 4 inches.
POPLAR, Lombardy, Bolleana, 1½ to 2½ inches.
BETULA ALBA, Tulip, 6 to 7, 7 to 9 ft.
PRIVET, 2 years. Very low price.

OAK PARK NURSERIES, Patchogue, L.I., N.Y.
M. F. TIGER, Proprietor.
Mention the Florists' Exchange when writing.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc.
A book you will often refer to. Send for it today. Free on application.

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Nurserymen and Florists

VISITORS INVITED.

Ask for Wholesale Catalogue. **RUTHERFORD, N. J.**
Mention the Florists' Exchange when writing.

700,000 CAL. PRIVET

	Per 100	Per 1000
3 years, 2½ to 3 ft., extra heavy.....	\$3 25	\$28 00
3 years, 2 to 2½ ft., well branched....	2 50	23 00
3 years, 18 to 24 in., well branched....	2 00	15 00
3 years, 12 to 18 in., 4 to 8 branches....	1 50	10 00
2 years, 2½ to 3 ft., very heavy.....	3 00	25 00
2 years, 2½ to 3 ft., well branched....	2 25	18 00
2 years, 2 to 2½ ft., well branched....	2 00	15 00
2 years, 2 to 2½ ft., 3 to 8 branches....	1 50	10 00
2 years, 18 to 24 in., 5 to 8 branches....	1 50	10 00
1 year, 14 to 20 in., 2 to 4 branches....	1 25	7 00
1 year, 10 to 14 in., 1 to 2 branches....	1 00	5 00
Cuttings, strong.....	.....	75

Tree form, 3 years, heads 4 to 5 feet..... 25c. each.
All the above plants have been transplanted and cut back except one year, which makes them a clean, good stock. Parties wanting 5000 or over will write and get better rates.

J. H. O'HAGAN
River View Nurseries, Little Silver, N. J.
Mention the Florists' Exchange when writing.

Eisele's Privet

NONE BETTER

50,000 3-year, cut back, heavy, 2½ to 3½ feet at \$25.00 per 1000. 50,000 2-year, cut back heavy, 2 to 2½ feet at \$18.00 per 1000. 25,000 Golden Elder, 3-year plants at \$60.00 per 1000. 30,000 Euonymus, strong branched, 12 to 15 ins. high, \$60.00 per 1000. 25,000 Box-Edging, 3 to 4 in. at \$30.00 per 1000. Achillea, the pearl, \$5.00 per 100. Aquilegia, \$5.00 per 100. Achillea Rose, \$4.00 per 100. Santolina, large, \$6.00 per 100. Boltonia Asteroides, \$6.00 per 100. Clematis, white, strong, \$6.00 per 100. Coreopsis, Lanceolata, \$4.00 per 100. Dianthus Barbatas, \$5.00 per 100. Helianthus, Maximiliana, \$4.00 per 100. Delphinium, Formosum, \$5.00 per 100. Golden Glow, \$3.00 per 100. Lychula Chalcedonia, \$5.00 per 100. Monarda Rossa, \$5.00 per 100. Anthemis Tinctoria, \$5.00 per 100. Pyrethrum Roseum, \$5.00 per 100. Veronica Longifolia, \$8.00 per 100. Digitalis Gloxiniflora, \$6.00 per 100. Agrostemma Coronaria, \$5.00 per 100. CASH WITH ORDER.

W. G. EISELE, CEDAR AVE. West End, N. J.
Mention the Florists' Exchange when writing.

PIN OAKS

SPECIAL LOW OFFER

Will move, this spring, a block of fine stocky trees; twice transplanted. In good roots, stems, caliper and tops they will please critical buyers. Low rates for March and April orders. Sizes 6 to 7, 7 to 8, 8 to 9, 9 to 10, and 10 to 12 feet.

ASK OUR PRICE AND SAVE MONEY

ANDORRANURSERIES, Wm. Warner Harper, Prop. CHESTNUT HILL, PA

Mention the Florists' Exchange when writing.

Privet Will Burn

BUT I don't want to be the one to burn it. I still have a surplus in all sizes in 2 and 3 year stock. If you will send me your list you will not need to get prices elsewhere. I grow PRIVET to SELL.

C. A. BENNETT, ROBBINSVILLE, N. J.
Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET

I still have a good stock of fine plants which must be moved this Spring and have decided to offer the following low prices:— 12 to 18 in., 2 years, \$5.00 per 1000; 18 to 24 in., 2 years, \$7.50 per 1000; 2 to 3 ft., strong, 2 years, \$12.50 per 100; 3 to 3½ ft., strong, 2 years, \$18.00 per 1000. Packing Free.

RED BANK NURSERIES, JAMES MCCOLGAN, Red Bank, N. J. Proprietor
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F. & F. NURSERIES

SPRINGFIELD NEW JERSEY

Wholesale Grovers **TREES AND PLANTS** in full assortment Trade Catalogue Free
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Cannas, Dahlias, Strawberries, Tobacco Dust, Etc.
2000 Florence Vaughan, \$7.00 per 1000, \$1.00 per 100. Choice Mixed Dahlias, \$2.00 per 100. These are names that have gotten lost, Oba and Park Jewell, \$1.00 per 100. 150 varieties Strawberries, including Mark Hanna, Beider, Thompson's No. 2, 3 and 4. All the very choicest. Send for catalogue. 1000 Golden Glow, \$2.00 per 100. 100,000 Ragged Robin or Curr Flavex, etc. Catalogue Grandiflora, \$3 per 100. Fine Tobacco Dust, \$1 per 100. MARK T. THOMPSON, Rio Vista, Va.
Mention the Florists' Exchange when writing.

AMERICAN TREE SEEDS AND PLANTS	Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it.
	OTTO KATZENSTEIN & CO. Tree Seeds and Plants Specialists, ATLANTA, GA

Mention the Florists' Exchange when writing.

Large Evergreens

All the leading kinds from 2 to 7 feet high, perfect form. Write for prices.

OAK PARK NURSERIES, Patchogue, L.I., N.Y.
M. F. TIGER, Proprietor.
Mention the Florists' Exchange when writing.

Vegetable Plants

Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.
Write for price list.

J. E. HUTTON & SON

CONYNGHAM, PA.
Mention the Florists' Exchange when writing.

FOR SPRING

We offer a general assortment of **NURSERY STOCK**, including a fine assortment of **Apple, Pear, Cherry, Plum and Peach** in all grades. **Shade and Ornamental Trees, Shrubs and Roses.**
CALIFORNIA PRIVET, 1 & 2 yr Smock Peach Pitts
Send List for Prices.

Franklin Davis Nursery Co.

Baltimore & Paca Sts., BALTIMORE, MD.
Mention the Florists' Exchange when writing.

VAN DER WEIJDEN & CO.

The Nurseries, BOSKOOP, HOLLAND
Growers and Exporters of fine Nursery and Florist stock: Rhododendron, Azalea Indica, Ornamentals, Conifers, Roses, Shrubs, Peonies, Pot-grown Plants, etc. Catalogue free on demand. Address all correspondence to MR. D. O. WIEGAND BRUSS, care of MALTUS & WARE, 136 Water Street, N. Y.
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P. OUWERKERK

216 Jane Street
WEEHAWKEN HEIGHTS, N. J.
P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES
Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE
Mention the Florists' Exchange when writing.

TREES

Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country.
Gold Medal—Paris—Pan-American—St. Louis. 102 prizes—New York State Fair, 1904.
Illustrated Descriptive Catalogue FREE on Request.

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Mt. Hope Nurseries, Rochester, N. Y.
Drawer 1011 U Established 65 Years.

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NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

GOVERNMENT NEEDS NURSERYMAN.—An opportunity to enter the Government service in the Philippines is afforded by a vacancy in the position of nurseryman at a salary of \$1,200 a year. An examination will be held on May 10 covering botany, practical questions in agriculture, horticulture, and general nursery work. Training and experience count for 30 per cent. in the rating. The age limit is from 18 to 40 years. Graduates from agricultural schools will be given preference in appointment.

THE FUNGUS DISEASES OF THE CRANBERRY form the subject of Farmers' Bulletin No. 221 of the Department of Agriculture, Washington, D. C. The cranberry blast, scald, and rot are caused by parasitic fungi. These diseases can be controlled by a proper application of Bordeaux mixture. At least five applications should be made during the season. No interval of more than fifteen days should elapse between the applications, the last of which should not be made earlier than August 15. The bulletin gives formulae of spraying mixtures, methods of application, etc.

Althaea Hedges.

The good old althaea, or rose of Sharon, has again become a favorite shrub for planting. That it used to be years ago is evidenced by the many old hedges of it to be seen on old estates near our large cities. There is a good deal to be said in favor of this shrub. There are numerous colors of flowers to select from, so that in planting a hedge one could have an assortment of colors, one contrasting with the other, if preferred to all one color. Another great advantage is, that it can be pruned all that may be desired, which is not the case with many other flowering shrubs. The althaea blooms from shoots of the same season's growth; therefore in the Winter season it can be cut to any extent without harm to its flowering, and the pruning insures a hedge of fresh, young shoots. It is the lack of this pruning that so many old hedges of this shrub show. The knife had not been used on them; they had grown at will, and became simply a boundary line marking and not a hedge. The althaea, when first planted, should be cut down almost to the ground, and it should undergo the same treatment the year following. There will then be a bushy base to the hedge, which, with proper pruning, need never disappear. Then every Winter shapen it nicely, cutting wherever desired, keeping in mind that the knife can do no harm, the flowers coming on the new wood. An advantage to the planter of the althaea is that it can be set out later than almost any other shrub, being very late starting into growth.

Salix Babylonica.

The Weeping Willow, as *Salix babylonica* is called, is known to every one; in fact, aside from those who grow willows for commercial uses, the weeping and the pussy willow are all that the name willow takes in. The weeping willow is to be found where the climate will permit of its growth, wherever civilization has found its way; and everywhere it is valued for its drooping, graceful habit, which seems so well suited to a peaceful waterside, where it is so often planted. Alongside a quiet lake or other body of water it seems much in place, its quiet, drooping character seeming to exactly fit the surroundings. When waters are swift running, or where scenery is rugged, it is not so much in character as where more peaceful features prevail.

The mistake is not uncommon of supposing that the weeping willow must have a quite wet place to grow in. This is not the case at all. It will grow, and grow well, in any ordinary situation, but it prefers one wet, or, at least, damp. We do not think it matters how wet a place it is, provided the water drains away. It does not like stagnant water; no more does any tree!

Some of the prettiest specimens of this willow are often met with in is damp and yet not too meadows where the ground much so to prevent the growth of a general assortment of trees. The one seen in our illustration is not even in a very damp place, and yet see how well it has grown!

Bontantes tell us that the name *S. babylonica* was suggested to Linnæus by the 137th Psalm:

"By the rivers of Babylon there we sat down; yea, we wept when we remembered Zion: we hanged our harps upon the willows in the midst thereof."

The weeping willow requires early planting in Spring to do well. Like the larch, if deferred until the buds push, it does not transplant well; whereas, as everyone knows, planted at the proper time, a bare stick will grow.

So far, the weeping willows in our country represent only the pistillate form of it. Some have supposed the one grown under the name of *Salamon* is the staminate weeping willow, but this surmise is not been verified that we are aware of.

Weeping Forsythias.

In early Spring no prettier sight greets one on a lawn than the drooping *Forsythia suspensa*. The older one, *F. viridissima*, is handsome, and a requisite wherever shrubs are, but besides the bright yellow flowers *suspensa* gives us, the drooping character of its growth is most pleasing. *F. viridissima*, left to itself, does not make a compact bush, although a little pruning quickly converts it into one. *F. suspensa* is of a drooping habit naturally. When its arched, drooping

branches are full of their yellow blossoms in the first weeks of Spring, the effect is very gratifying. Permitted to grow as it will, it forms a drooping mass, very pretty, but not as handsome as when it is of a standard form. This form can be given it by training. Drive a stake into the ground and tie to it a vigorous young shoot. Head it off at about 5 feet. In the course of a year or two the shoot will be self-supporting, when the standard is made.

Set on each side of a path, as other standard plants are, these golden bells are so beautiful that many a pair is now being planted for the purpose, as it is the first of all shrubs to flower in the Spring, the forerunner of many other beauties to follow. As pot or tub plants, all of the golden bells—as *forsythias* are called—are beautiful, and there would be but little trouble for florists to dispose of numbers of them for Easter when grown in pots, in standard shape, and in full flower.

This Spring the golden bells make more display of flowers than has been seen for many a year, and all have escaped the heavy frosts which occurred in these parts the 16th and 17th of April.

Setting Out Layers and Cuttings.

The setting out of layers and of cuttings made during the Winter is one of the first things to be attended to in the Spring. Early planting is, we all know, something of great value, yet to far too many nurserymen it is something they know of only by name. All kinds of work is pressing; that of filling orders is among the chief, and often the planting of stock of cuttings, layers, young seedlings, and the sowing of seeds are the last things done instead of the first. This ought not to be, and need not be. A planning ahead would remedy it. There should be a special gang of men for all such work, and the task of planting and sowing should be taken hold of at the proper time. Besides the advantage to all stock of early planting, there are some sorts—the Japanese snowball for one—which must be set out early to have it do well. It pushes early and will not endure late planting.

When cutting off layers from the parent plants there will be a somewhat long and curved end containing the roots. It is not always practicable to cut these ends partly away, the roots being on them, mostly. When setting these layers in the prepared trenches, place the ends all one way, and remember how placed. Then when digging time comes, they can be dug out by digging behind the roots, as it were, and the roots are not severed in the process. And when planting out layers and all stock, see that all bruised roots are cut away, leaving a clean surface at the ends of each. The fibres come from these clean-cut surfaces; and fungus is not enticed.

Propagating Dimorphanthus.

This is the time to dig up some roots of the *Dimorphanthus manschuricus* for propagating purposes. Cut into lengths of two or three inches and set in rows, a few inches underground, every piece should make a plant. The *dimorphanthus* has been placed with the aralias of late. Many will prefer it to the common *Aralia spinosa*. Its shoots are thicker, its foliage broader, and its flowers a week or two in advance of it.

Both the *Dimorphanthus manschuricus* and *Aralia spinosa* are unpromising looking in Winter. Their prickly shoots are somewhat repelling. They make up for this in Summer, with their large pinnate leaves and immense heads of flowers. And with the disappearance of the flowers the wine-colored berries come; and, being in such large heads, they are really more attractive than the flowers. There is a third aralia now becoming one of others in collections—*A. japonica*. It has darker-colored wood than the others. All are propagated in the same way—by root cuttings, and also by seeds.

Ligustrum Lucidum.

Referring to what Professor Massey says of *Ligustrum lucidum* in a recent issue of The Florists' Exchange, I can indorse all he says of its merits. It is not only as evergreen as a holly; its foliage is far prettier, being of a bright, shining green. And it may be, the plant which I had for trial was not in the best place for it to give it a chance to survive the Winter. The ground is deep, and so favors late growth. At any rate, it was partly killed the first Winter after its Spring planting, and wholly killed the next. But I have another place for one where the soil is less deep, and where it will ripen its wood better, and one shall have a trial there.

I have trouble with *Magnolia grandiflora* in the same way. It grows so late in the season that the wood has not time to thoroughly ripen, and it gets partly Winter-killed in consequence. A slow growth promotes hardness.

It takes a good deal of scheming on the part of us poor northerners to find out just what such plants as those above mentioned require, and when we do find out we have not always the situation we know would be best.

JOSEPH MEEHAN.

ORIGIN OF A COMMON SAYING.—George P. Rowell, in his "Forty Years an Advertising Agent," now running in *Printers' Ink*, says it was the late Jim Fisk who gave rise to the phrase, "Gone where the woodbine twined," as applied to securities that had been pledged; that is, "spouted" in the vernacular of the Street. "As the Virginia creeper, misnamed woodbine, commonly grew over the waterspout, on New England farmhouses, the expression, in Fisk's active fancy, seemed appropriate."



SALIX BABYLONICA—WEEPING WILLOW.

KILLING FROST IN MIDDLE TENNESSEE.—Killing frosts occurred at Dechard, Tenn., Sunday and Monday mornings, April 16 and 17, doing immense damage to grapes, all garden truck, and vegetation of every kind. The wind blew a gale of extreme bitterness all day Sunday, and at nightfall subsided, and on Monday morning an inch of ice was seen on all standing water, and a great sheet of frost covered the ground. The thermometer stood at 23 degrees. All of the wholesale and retail nursery people have lost everything, even the June buds and all of the dormant buds have been entirely killed. The loss is estimated at one million dollars. The nurserymen will, perhaps, have to call in nearly all of their traveling representatives, something like 150 men, scattered all over the United States.

The Ohio Agricultural Experiment Station, at Wooster, O., is devoting attention to forestry investigations. Bulletin 153 is devoted to a discussion of some trees suitable for posts, poles and ties, with cultural suggestions and financial possibilities, including catalpa, locust, mulberry and the Osage orange.

Announcement



OUR OFFICES HAVE BEEN REMOVED TO LARGER QUARTERS AT
12 WEST BROADWAY.

BULBS.

YOU SHOULD BUY THEM OF US.

□□ WHY □□

BECAUSE—WE SUPPLY THE HORSESHOE BRAND

The quality is excellent.

They are up to size.

You get the value of your money.

They are secured from the most reliable sources of supply.

We save you time and money by supplying you an article which will bring good results. Good results bring good returns.

We make prompt deliveries in season.

We are properly located to receive, examine and dispatch the goods.

It is our particular business. We are not seedsmen; we have no retail business to care for.

EVERY FLORIST SHOULD GROW BULBS—

They take up very little greenhouse room.

WRITE US FOR PRICES.



RALPH M. WARD & CO.,
12 WEST BROADWAY, NEW YORK.

American Association of Nurserymen.

Program for Thirtieth Annual Meeting, to be held at West Baden Springs, Indiana, June 14, 15, 16, 1905

Wednesday Morning, June 14, 10 O'Clock.

Calling to order, President W. W. Kirkpatrick, Texas. Welcome to Indiana, Andrew J. Rhodes, Indiana, 10 minutes.

Response for the Association by the President, 10 minutes.

President's Address, 15 minutes. Reports of Secretary and Treasurer, 15 minutes. Reports of Committees:

Tariff, Irving Rouse, New York, 5 minutes. Legislation, Charles L. Watrous, Iowa, 5 minutes. To Edit Report, J. Horace McFarland, Pennsylvania, 5 minutes.

To Meet Western Freight Classification Committee, Peter Youngers, Nebraska, 5 minutes.

To Meet Eastern Freight Classification Committee, William H. Moon, Pennsylvania, 5 minutes.

To Meet Southern Freight Classification Committee, Herbert S. Chase, Alabama, 5 minutes.

Transportation, E. Albertson, Indiana, 20 minutes. Discussion by G. L. Taber, Florida, and members, 10 minutes.

"The Cost of a Tree," Harry L. Bird, Michigan. Discussion by Aubrey Frink, Florida; J. Horace McFarland, Pennsylvania; Herbert S. Chase, Alabama, and members.

Nomination of State Vice-Presidents.

Wednesday Afternoon, 2 O'Clock.

Election of State Vice-Presidents, 5 minutes. "Grading Nursery Stock," L. A. Berckmans, Georgia, 15 minutes.

Discussion by members, 10 minutes. "The Low Prices of Ornamental Stock," Charles Maloy, New York, 15 minutes.

Discussion by members, 10 minutes. "The Grape, the Commercially Neglected Fruit," T. V. Munson, Texas, 15 minutes.

Discussion by members, 10 minutes. "Experimental Orchards for Nurserymen," L. C. Corbett, U. S. Department of Agriculture, 30 minutes.

Discussion by members, 15 minutes.

Wednesday Evening, 7:45 O'Clock.

By aid of the stereopticon the extremely interesting papers of the evening sessions will be fully illustrated. It has been the endeavor of the Committee to make this year's program an eminently practical one, and we believe all the subjects presented are of unusual interest to every member. As the room must be darkened, members are respectfully requested to be present at 7:45 sharp.

"A Tree Garden to Last a Thousand Years" (stereopticon), J. Horace McFarland, Pennsylvania, 40 minutes.

Discussion by J. Woodward Manning, Massachusetts, and members, 10 minutes.

"Soil Inoculation" (stereopticon), Dr. George T. Moore, U. S. Department of Agriculture, 60 minutes.

Discussion by J. H. Hale, Connecticut, and members.

Question Box.—A great many questions have been suggested to the Committee for discussion, but it has seemed best to consider them through the Question Box. Questions will be received by the Secretary or the Chairman of the Program Committee until Thursday p. m. and will be answered on Friday.

Thursday Morning, June 15, 9:30 O'Clock.

"The New Horticulture," H. W. Stringfellow, Texas, 25 minutes.

"Best Methods of Improving Our Standards in Trees, Fruits," G. L. Taber, Florida, 25 minutes.

Discussion by members and W. O. Reed, Indiana, 20 minutes.

"Quality vs. Quantity," Prof. John Craig, New York, 20 minutes.

Discussion by members, 10 minutes. "Plants in Department Stores," Howard A. Chase, Pennsylvania, 20 minutes.

Discussion by members, 15 minutes.

Thursday Afternoon, 2 O'Clock.

"Office Management," Thomas B. Meehan, Pennsylvania, 25 minutes.

Discussion by Charles J. Brown, New York, 5 minutes; William Pitkin, New York, 5 minutes.

"The Fruit Exhibit at the World's Fair," William B. Stark, Missouri, 20 minutes.

Discussion by J. S. Butterfield, Missouri, and members, 15 minutes.

The session will adjourn at 3:30 p. m., when the American Nurserymen's Protective Association and the Nurserymen's Mutual Protective Association will hold their annual meetings as per notices of the respective secretaries of those organizations.

Thursday Evening, 7:45 O'Clock.

This is an executive session and members only will be admitted. At Prof. Hedgecock's request the Association has agreed that no report shall be made of his lecture in any paper, nor in the annual report, excepting as he may direct. It is understood that members by their presence agree to this arrangement and will fully respect the wishes of Prof. Hedgecock, and will not give out in any manner any information received from the lecturer.

"Packing, Packing, Trading and Shipping Fruit" (stereopticon), J. H. Hale, Connecticut, 30 minutes.

Discussion by members, 20 minutes.

"Crown Gall and Root Knot" (stereopticon), George G. Hedgecock, U. S. Department of Agriculture, 60 minutes.

Discussion by C. L. Watrous, Iowa, 5 minutes; J. H. Hale, Connecticut, 5 minutes, and members.

Friday Morning, June 16, 9 O'Clock.

Election of officers, 10 minutes. Selection of place for next Convention, 20 minutes. Appointment of Committee on Resolutions, 10 minutes.

New business, 10 minutes. "Refrigeration of Nursery Stock and Storage in Cellars," Madison Cooper, New York, 30 minutes.

Discussion by members, 30 minutes. "Excluding Advertisements Quoting Prices," J. M. Irvine, Missouri, 20 minutes.

Discussion by Theodore Smith, New York.

Friday Afternoon, 2 O'Clock.

"The Evolution of Importing," James McHutchison, New York, 20 minutes.

Discussion by Hiram T. Jones, New Jersey, 5 minutes; Andre L. Casusse, New York, 5 minutes; F. L. Atkins, New Jersey, 5 minutes.

Answers to questions deposited in Question Box. Reports of Committees on Exhibits, on Final Resolutions, on Program; and Announcement of Committees.

Adjournment.

Friday Evening, 7:00 O'Clock.

Fruit Banquet.—This is a special feature and it is hoped will be an enjoyable one. Many members have kindly agreed to contribute liberally fruits in season in their respective sections, and a choice selection is now assured. Native wines are also expected. Prominent members and well known speakers will respond to toasts, and the dinner will be presided over by one of our leading members, J. H. Hale acting as toastmaster. Tickets will be issued at a reasonable price per plate and must be secured from any member of the Program Committee, or the Secretary of the Association, up to Thursday night, the 15th of June. There will be dancing after the banquet, the music being furnished by the Baden Springs Hotel Company.

Saturday, June 17.

A special excursion has been arranged to Mammoth Cave, Kentucky, and details will be announced in advance. Members wishing to take in this excursion must apply to the committee before Friday at 2 p. m.

English Horticultural Notes.

A GREAT INTERNATIONAL SHOW.—Possibly some of the readers of The Florists' Exchange have already had an intimation of the great international horticultural exhibition that takes place in our northern capital (Edinburgh, Scotland) on September 13, 14 and 15, this year. Some folks here are saying that it is going to heat all records. That is rather a premature conjecture, but I am in close communication with the organizing secretary, and he is hopeful of a great show. Let me explain that it is instituted by the Royal Caledonian Horticultural Society, which was established in 1809, and which occupies in the northern part of Great Britain the same comparative influence that the Royal Horticultural Society occupies in England. At one time it had its own experimental garden, and was altogether a very influential body; but times and societies change, so that the gardens and also the publication of the "Memoirs" of the society were given up. Though there is very little prospect of the Royal Caledonian Horticultural Society being in possession of a garden of its own, still it is active, and has resumed the series of "Memoirs" publications, while every year it holds two big shows, one in April or May, and the other in September. I believe it is fifteen years since an international horticultural show was held in Edinburgh.

By way of emphasizing the importance of this society, I would say that it is subscribed to by the leading gentry of Scotland, as well as by the nurserymen and notable head gardeners. It possesses a membership of 600 to 700, and has a fruit and vegetable committee of 33 gentlemen; a floral committee of 38, and a scientific committee of 17, exclusive of the finance and exhibition committees which comprise the council. A well-known politician and landed gentleman, Lord Balfour, of Burleigh, is president, and his influence, combined with that of a few leading members, has had an admirable effect on Scottish horticulture. So long as I remember, let me say that the secretary's name and address is Mr. P. Murray Thomson, S. S. C., 5 York Place, Edinburgh. The enthusiasm that Mr. Thomson has infused into his office has had a greatly stimulating effect.

With reference to the coming international exhibition (schedules of which can be obtained from the secretary) the chief features are:

(1) Sections of schedule, 6; fruits, plants, cut flowers, vegetables, amateurs, open. (2) Classes, 253. (3) Prizes, total, £1,400. (4) H. M. the King presents a silver cup, and there are numerous other cups and medals. (5) Grapes will be a leading feature; first, for a collection, £15 cash, challenge trophy and gold badge. (6) Collection of hardy flowers, first 200s. (7) Roses, largest, first prize 100s. (8) Collection of vegetables, prizes £21, £15, £10 and £5 (in one class).

These are some of the leading features. Then there are prizes for:

(9) Fruit grown abroad, open to any country. (10) Collection of apples, in a space not exceeding 8 by 5 feet: First, 200s.; second, 140s.; third, 100s. (11) Collection of pears, in a space not exceeding 8 by 5 feet: First, 200s.; second, 140s.; third, 100s. (12) Collection of any fruits (not preserved), in a space not exceeding 8 by 5 feet: First, 200s.; second, 140s.; third, 100s.

Competitors must give two weeks' notice to the secretary of their intention to compete, and also mention the port where the packages will be landed, to enable the committee to make timeous application to the Board of Customs to pass the same without opening. See also show regulation 17.

All foreign fruits or plants must be addressed as under, when the exhibitor cannot accompany them, and must be carriage paid: To the Committee of the International Fruit and Flower Show, 18 Waverley Market, Edinburgh.

This package contains fruits (or plants) only. From

The packages must be delivered not later than midday on Tuesday, September 12. Intimation by letter must also be given to the secretary one week before the show that such packages are to be sent.

With the foregoing particulars I have very fairly summarized the best points of the program, and as Edinburgh is one of the classic cities of the world, with a population of fully 350,000 souls, and lastly, as the date is the finest in the year for a trip to Scotland, we may reasonably hope to have the pleasure of entertaining many American friends.

J. HARRISON DICK.

Baby Rambler Rose.

Editor Florists' Exchange:

We send you five plants of Baby Rambler rose. We consider these very thrifty plants, considering their age. The cuttings were struck February 11, and the plants were potted March 8. The plants are, as you will see, on April 20.

Those who had Baby Rambler rose last year seem to have had trouble in growing it on its own roots; so we send you these plants in order that you may see how quickly this rose may be grown on its own roots when conditions are favorable. Out of 10,000 cuttings there were not 5 per cent. that did not root.

West Grove, Pa. THE CONARD & JONES CO.

[We show herewith an illustration of one of the plants referred to by the Conard & Jones Company. The pot seen was the only one available in this office for photographing purposes, the plants having reached us in the usual shipping paper pots. The plants have certainly made excellent growth, and were in first-rate condition, carrying nice clusters of well-developed blooms.—Ed.]



BABY RAMBLER ROSE

Growers Conard & Jones Company, West Grove, Pa.

Efficiency of Pumping Plants.

A preliminary report is issued by the Office of Experiment Stations of the United States Department of Agriculture as Circular No. 59 of that office. A large number of pumping plants have been tested to determine their efficiency and the cost of raising water. This circular gives the reports of a number of these tests, the final result in each case being given in the form of the cost of fuel for raising water 30 feet to cover one acre of ground to a depth of 18 inches. Under the various plants reported on, this cost varies from 90 cents to \$3.60.

Laboratory tests of typical pumps have shown that for every speed of pump there is a definite head at which each pump works at its highest efficiency, and that there is a definite speed which is most effective for the operation of the pump under a given head. The table which follows shows the heads under which one pump tested gave the greatest efficiency with the given rates of speed.

EFFICIENCY OF PUMPS WITH DIFFERENT SPEEDS AND HEADS.

Revolutions per minute.	Feet.	Efficiency.
500	17.0	63.2
696	25.4	67.6
800	28.5	69.8
893	40.6	70.9
1,004	51.4	69.4
1,102	61.3	68.9

Further laboratory tests were made to determine the most efficient position for a pump when water is to be raised a given height; that is, what division of this head between suction and discharge gives the best results. The test showed that with a lift of 40 feet efficiency increased as the pump was placed nearest the water supply.

Data were collected from a large number of owners of pumps regarding the amount of water used and the cost of raising it. The reports from 12 of these pumping plants show an average depth of 1.24 feet of water applied at an average cost of \$6 per acre. The gross crop returns from 24 orchards irrigated with water supplied from pumping plants averaged \$136 per acre.

CRIMSON RAMBLER ROSES

We have a specially fine lot of our own growing on own roots, two and three year old, with strong canes, in splendid condition for present planting and offer them until sold as follows:

Selected Extra Strong 3 year old, 4 to 6 ft. canes, many branches, \$15.00 per 100; \$125.00 per 1000. Strong - 2 year old, 3 to 4 ft. canes, \$12.00 per 100; \$100.00 per 1000. Strong - SECONDS, 2 year old, fine plants for growing on for forcing purposes \$6.50 per 100; \$55.00 per 1000. 25 sold at 100 rate; 250 at 1000 rate. See list of Surplus Perennials on front page.

PALISADES NURSERIES, Sparkill, N. Y.

Mention the Florists' Exchange when writing.

CLUCAS & BODDINGTON Co., Proprietors

LIST OF ADVERTISERS

Table listing various nurseries and florists such as Ascheromby A., Hicks & Crawbeck, Hiller Bros., etc.

Table listing florists and nurseries including Saltford Geo., Sander & Son, Schmidt Co., etc.

Table listing florists and nurseries including Van Bourgooden K H., Van Der Welden & Co., Vaughan's Seed Store, etc.

INDEX TO STOCK ADVERTISED

Large alphabetical index listing various plant species and their prices, such as a, col. 1; b, col. 2; Jasmine, 588-90.

Chicago. News Items. The retailers here report larger quantities of pot plants handled than in former years. News Notes. C. A. Roth, the well-known High street florist...

Contents.

Table listing contents of the publication including Books Received, American Association of Nurserymen, etc.

Pansy Plants

From our well-known strain, fine plants in bloom, \$1.00 per 100; \$8.00 per 1000. DAISIES (Bellis) red and white, \$2.00 per 1000.

AT A SACRIFICE SURPLUS BULBS FOR SPRING PLANTING

Table listing various bulbs for sale including GLADIOLUS, CANNAS, CALADIUMS, MONTBRETIAS, SPOTTED CALLAS, etc.

CLUCAS & BODDINGTON CO. Importers, Exporters and Growers of SEEDS, BULBS and PLANTS. 131 WEST 23d STREET - NEW YORK.

The Beautiful Pink Carnation
CANDACE

Dissemination 1906, \$2.00 per doz., \$12.00 per 100, \$100.00 per 1000. Early—commercial.
Indianapolis Flower and Plant Co. and John Harlje, Indianapolis Ind.
Mention the Florists' Exchange when writing.

ROBT. C. PYE
Carnations
NYACK, N. Y.

Mention the Florists' Exchange when writing.

Rooted Carnation Cuttings

	Per 100
Flamingo, scarlet.....	\$6.00
Albatross, white.....	5.00
Enchantress.....	3.00
Queen, white.....	3.00
Boston Market, white.....	3.00
Queen Louise.....	2.00
Lawson.....	2.00
J. H. Manley, scarlet.....	2.00
Challenger.....	2.00

Write for prices on large lots. 5 per cent. discount for cash with order.

Northport, Long Island, N.Y.
JAMES D. COCKCROFT
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SURPLUS STOCK CARNATIONS

From Soil

2,000 ESTELLE.....	per 100, \$3 00
2,200 ENCHANTRESS.....	" 4 00
1,100 WHITE LAWSON.....	" 7 00
1,900 QUEEN LOUISE.....	" 1 75
6,000 LAWSON.....	" 3 00
1,900 GOMEZ.....	" 1 50
1,600 ETHEL CROKER.....	" 1 50
200 NORWAY.....	" 2 00
125 ROOSEVELT.....	" 2 00
175 DAHEIM.....	" 6 00
75 FLAMINGO.....	" 6 00
300 GLACIER.....	" 2 50

RAWSON, The Florist, Elmira, N.Y.
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Carnations
F. DORNER & SONS CO.
LA FAYETTE, IND.

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CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty
Mention the Florists' Exchange when writing.

CARNATION CUTTINGS

STRONG AND WELL ROOTED.

WHITE	per 100	1,000
Queen Louise.....	\$2.50	\$20.00
Queen Louise.....	2.00	15.00
Enchantress.....	3.00	25.00
Lawson.....	2.00	15.00
Fair Maid.....	2.00	15.00
PINK	2.50	20.00
Harlowarden.....	2.50	20.00
CRIMSON	4.00	40.00
Judge Hinadale.....	4.00	40.00
VARIEGATED	2.00	15.00
Prosperity.....	2.00	15.00

S. J. REUTER, Westerly, R. I.
Mention the Florists' Exchange when writing.

CARNATIONS

QUEEN LOUISE.....	per 1000, \$7.50
FLORIANA.....	" 7.50
MRS. E. A. NELSON.....	" 10.00

GERANIUMS
Rooted cuttings, the next lot ready May 22.
Send for list of varieties and Summer prices.

SMILAX—SPRENGER
By the 100 or 1000, well grown and carefully packed; guaranteed to reach you in good condition. Send for price list.

ALBERT M. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.



Preparations for Field Planting.

If the carnation field received a liberal coating of manure and was deeply ploughed last Fall, it will now be in excellent shape for working. This can be done to best advantage with a disc harrow, which will pulverize the soil very fine to a depth of about six inches if it is properly weighted down. If the field has not been ploughed in the Fall it should be given a coating of manure and chemical fertilizers, if needed (but chemicals are seldom used in the carnation field; if the soil is moderately rich, a little manure is all that is required), and deeply ploughed and pulverized finely just before planting. Be careful not to plough when the soil is too wet, otherwise there will be trouble with the cultivating later on.

Planting in the Field.

See that the field is well drained and in good condition before planting; nothing is worse than planting carnations in hard, lumpy soil. Plant in rows, 14 inches apart, and 12 inches apart in the rows. If you have the room, it is better to plant in beds, four rows to a bed, with a two-foot walk between the beds. Besides the additional light and air, the walks give ample room for topping, etc., without having to tramp down the beds. Of course, the beds can be dispensed with if you have not got the room to devote to them, and the planting be continued in rows 14 inches apart. This distance gives the plants plenty of air and light, and affords plenty of room for cultivating both lengthwise and crosswise, with hand cultivators, which are generally preferred to the horse cultivators, as there is less danger of harming the plants. If the acreage is large, leave an eight-foot crosswalk, or roadway, every three or four hundred feet. This enables one to drive across the field with a wagon, and makes it handier for both planting and lifting the plants. These roadways are unnecessary when the field is small.

The Young Plants.

Keep a close watch on the young plants, and maintain them in a good growing condition. It is better to run them a little on the dry side, but do not allow them to suffer from extremes. Do not neglect the topping; go over the plants and pinch all that are large enough to enable you to break

CARNATIONS
Chrysanthemums and Violets
Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Kennett Square, Pa.
Mention the Florists' Exchange when writing.

BIG BARGAIN IN ROOTED CARNATION CUTTINGS TO MAKE ROOM.

Fair Maid, Alpine Glow, Henry Fenn, Challenger, Frances Joost, Queen Louise, Prosperity, \$10.00 per 1000. Wm. Scott, \$8.00 per 1000. Mrs. Fisher, from 1 1/2 in. pot, \$15.00 per 1000. 250 at 1000 rates.

HANSEN & LUNSTED, PASSAIC, N. J.
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Wholesale Florists
RICHMOND, IND.
Mention the Florists' Exchange when writing.

The Lewis Conservatories
MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist
Mention the Florists' Exchange when writing.

CARNATIONS

Rooted Cuttings, strong healthy stock, ready now. Mrs. F. Joost, \$2.50 per 100; \$10.00 per 1000. Cervera, Manley, \$15.00 per 1000.

CASH WITH ORDER
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Jamaica P. O., Woodhaven Station.
Mention the Florists' Exchange when writing.

CARNATIONS GOOD STRONG CUTTINGS

Hill.....	100	1000
Lawson.....	\$1 00	\$8 00
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Flamingo.....	8 00	
Prosperity.....	1 50	13 00
Manley.....	2 00	15 00
Roosevelt.....	1 50	15 00
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Mention the Florists' Exchange when writing.

CARNATIONS HEALTHY STOCK FROM SOIL

Lawson.....	100	1000	Prosperity.....	2.00	14.00
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Goethe.....	2.00	20.00	Cervera.....	1.50	14.00
Flamingo.....	6.00				

Cash with order, please. Also send for prices of rooted Chrysanthemum cuttings now ready.
DEPEW BROS., Nyack, N. Y.
Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS.....	\$12.00	\$100.00	LAWSON.....	\$2.00	\$15.00
CHICAGO WHITE.....	12.00	100.00	NELSON.....	1.50	12.50
RICHMOND GEM.....	10.00	75.00	MORNING GLORY.....	1.50	12.50
THE BELLE.....	5.00	45.00	JOOST.....	1.00	9.00
CRUSADER.....	5.00	45.00	HIGINBOTHAM.....	1.00	9.00
INDIANAPOLIS.....	5.00	45.00	FLORA HILL.....	1.00	9.00
BOSTON MARKET.....	2.50	20.00	QUEEN LOUISE.....	1.00	9.00
ADONIS.....	2.50	20.00	PERU.....	1.00	9.00
ESTELLE.....	2.50	20.00	G. ANGEL.....	1.00	9.00

ROSES

2 1/2 Pot Plants
MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA,
UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND.....	\$30.00	\$250.00	PERLE VON GODES.....	\$5.00	\$40.00
ROSALIND ORR.....			BERG.....	3.00	25.00
ENGLISH.....	25.00	200.00	BRIDESMAID.....	3.00	25.00
LA DETROIT.....	6.00	50.00	BRIDE.....	3.00	25.00
AMERICAN BEAUTY.....	6.00	50.00	IVORY.....	3.00	25.00
LIBERTY.....	5.00	45.00	PERLE.....	3.00	25.00

AMERICAN BEAUTY, bench plants, \$6.00 per 100; \$50.00 per 1000.
All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central
PETER REINBERG, 51 Wabash Av., Chicago

Mention the Florists' Exchange when writing.

H. WEBER & SONS

announce the completion of arrangements whereby they will, beginning in January, 1906, disseminate jointly with

THE E. G. HILL CO.
THEIR TWO GRAND NEW CARNATIONS

MY MARYLAND AND JESSICA

MY MARYLAND is already well and favorably known, having been exhibited freely at the various flower shows and florist club meetings the past Fall and Winter, and in every case elicited the highest praise and most favorable comment. We pick this variety to quickly and easily displace all other whites for first honors, not alone in exhibition, but in commercial points as well. We claim for its robustness of constitution quite unequalled in any other variety and an ease of culture that will delight the heart of the grower. The great vigor of both parents (Norway x Lawson) seems united and improved upon in this variety.

IN JESSICA we have in the red and white variegated class, what My Maryland will prove among white. It is descended through several generations of variegated seedlings of Helen Keller and Bradt extraction on the one side and Lawson on the other. A strong, thrifty growing variegated seedling bearing the seed. It is a trifle heavier in growth than My Maryland and just Lawson height. Aside from these differences and the color, the description of My Maryland applies to Jessica. Under favorable conditions four-inch blooms are not uncommon. We pick Jessica to win over any other variegated variety.

Both of the above are free propagators. We are thoroughly familiar with them and know what they will do. We will be in a position to deliver stock early and on time, and assure the trade that no disappointments will result on that score.
We have already booked many orders. It pays to be early. Orders booked are subject to cancellation by the buyer if unsatisfied with either variety, up to the time the cuttings are received.

Price: \$2.50 per doz.; \$12.00 per 100; \$100.00 per 1000
West of Pennsylvania address, **THE E. G. HILL CO.**, Richmond, Ind.
East of Ohio address, **H. WEBER & SONS**, Oakland, Md.
Mention the Florists' Exchange when writing.

CAN SHIP AT ONCE ROOTED CARNATION CUTTINGS

Table with 2 columns: Variety and Price. Includes White Lawson, Enchantress, Vesper, The Queen, Enchantress, Queen, Fair Maid.

Larchmont Nurseries

LARCHMONT, N. Y. Mention the Florists' Exchange when writing.

CHICAGO CARNATION CO.

JOLIET, ILL. Ours plants are now in the field. Write us for Fall delivery.

Mention the Florists' Exchange when writing.

RED SPORT

The Great Christmas "Hollyberry" red Carnation. Most profitable red ever introduced...

A. B. DAVIS & SON Carnation Specialist. PURCELLVILLE, VA. Mention the Florists' Exchange when writing.

PANSIES

THE JENNINGS STRAIN. Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100.

E. B. JENNINGS, Lock Box Southport, Conn. 254. Grewer of the Finest Pansies. Mention the Florists' Exchange when writing.

COLEUS

2 1/4 in., \$2.00 per 100.

HELIOTROPE

2 1/4 in., \$2.00 per 100. Cash with order, please.

W. H. PARSIL, Summit, N. J. Mention the Florists' Exchange when writing.

IVY

Hardy large leaf variety, bushy, 4-5 ft. high. 5 in. pots, \$16.00 per 100. Rooted cuttings, very strong, 5-8 eyes, \$1.25 per 100; \$10.00 per 1000.

JOHN RECK & SON, Bridgeport, Conn. Mention the Florists' Exchange when writing.

HEADQUARTERS FOR ENGLISH IVY

English Ivy, from 3 1/2 inch pots, strong and bushy, 3 plants in a pot, \$3.00 per 100; \$50.00 per 1000. Big value for the money. Cash with order.

LOUIS C. PILAT 154 Main Street, OSSINING, N. Y. Mention the Florists' Exchange when writing.

GERANIUMS

Table with 2 columns: Variety and Price. Includes 10 Varieties, Alternantheras, Asparagus Plumosus, Verbenas, Camas.

CASH OR C. O. D. JOSEPH H. CUNNINGHAM, Delaware, Ohio. Mention the Florists' Exchange when writing.

them between the joints, about three inches above the level of the soil. This gives a good base for the foundation of the new plant. Varieties that have a straggling growth do better if pinched low; two or three eyes are enough to leave on such sorts. If more eyes are left, the plants are apt to become very straggly before housing time.

See that all the plants that are large enough are topped before planting in the field. Considerable time is saved by pinching them while on the benches, and it is much easier than pinching in the field. Give the plants a good watering before planting out, as it may be the last one they will get for some time, and will help get them established should a dry spell follow the planting. If there are any signs of green fly on the young plants, buy a can of Nicotinic acid or To-bak-in (either will do). Use a two-inch potful of To-bak-in, or, if you prefer the Nicotinic acid, fill a 2-inch pot to about one-quarter of an inch from the top, dilute with three gallons of water, apply with a spray pump having a very fine nozzle, and spray late in the afternoon, getting the spray in the center of the plant as much as possible. If this is done carefully there will be very few greenfly alive in the morning. Should any be left, repeat the operation in the afternoon, give the plants a syringing the next morning, and they will be nice and clean. Spray them once every two weeks, with either of the above insecticides, and you will not be troubled with greenfly at all.

Don't Neglect Old Plants.

While busy with the Spring planting do not neglect the old plants, if good flowers are expected for late Spring and Summer. The south side of the benches should be given a mulch of old manure, or soil, to prevent the edges from drying out so often. Even after the mulch is on, the edges will have to be gone over and touched up once or twice between waterings to have the benches dry out evenly.

The varieties that fade easily should have been shaded ere this; if not already done, the work should be attended to at once. Whitewash is the best shading to use. Sprayed over the glass evenly with a force pump, or a hand syringe, it makes innumerable spots or blotches which break the force of the sun's rays, and admit light enough to prevent the plants becoming soft, as they are liable to do if the glass is covered, as when the shading is applied with a brush.

Thrips and red spider, at this season, when we are crowded with work, are apt to get the start of us unless we are very vigilant. Nicotinic acid will keep down the thrips, but you must keep everlastingly at it. Fumigate once a week, vaporizing the insecticide either with the lamps or by applying it to a steam pipe with an oil can, or painting it on the pipes with a brush, then turning on the steam, and it will do the rest. One gallon will fumigate strongly 50,000 square feet of ground space, and if used as a preventive will cover more space. As to red spider, it is easily kept down by a judicious use of the hose. As the weather gets warmer, spray the houses two or three times a week. Keep the walks well dampened and clean; if there are any weeds in them, pull them out. A lot of weeds in a dry walk near a hot steam pipe will form an ideal resting place for red spider, and should be destroyed at once. G. W. FRENCH.

COLEUS

Table with 2 columns: Variety and Price. Includes 12 Varieties, Double Petunias, Seedling Petunias, Centaurea Gymnocarpa, Vinca Vine, Primroses.

CASH OR C. O. D. JOSEPH H. CUNNINGHAM, Delaware, Ohio. Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS. FINE HEALTHY STOCK

Table with 2 columns: Variety and Price. Includes White Lawson, Lady Bountiful, Mrs. M. A. Patten, Nelson Fisher, Flamingo, Enchantress, Boston Market, Gen. Macco, Morning Glory, Mrs. G. M. Bradt, Melba, Queen Louise, White Cloud, Adonis, Alpine Glow, Chicago, Gold Nugget, Golden Beauty, Mrs. Theo. Roosevelt, Mrs. F. Joost, White Bradt.

GRAFTED ROSES FINE STOCK

We are booking orders now for delivery as desired. Bride, Bridesmaid, Golden Gate, Carnot, Kaiserin, Testaut, La France, Wootton, Watteville, Albany, from 2 1/4 inch pots, \$12.00 per 100.

WOOD BROS., Fishkill, New York

Mention the Florists' Exchange when writing.

50,000 PANSY PLANTS

in bud and bloom, in prime condition, \$10.00 per 10.00 Cash with order. L. I. NEFF, 218 Sixth St., Pittsburg, Pa. Mention the Florists' Exchange when writing.

PANSIES

A superb strain, transplanted in cold frames, large plants, 50c. per 100, by mail; \$3.00 per 1000, by express. Per 100 Mammoth Verbenas, in bud, 2 1/4 in. \$1.50. Finely Fringed Single Petunias, 2 1/4 in. 1.50. Salvia, glowing scarlet, strong, 2 1/4 in. 2.00. Begonia Vernon, new variety, 2 1/4 in. 2.00.

C WHITTON, City St., Utica, N. Y.

Mention the Florists' Exchange when writing.

PANSIES

Royal Exhibition and Trimardeau, strong plants, transplanted last Fall in open ground. \$1.00. Bellis Perennis, in bud and bloom. 1.00. Forget-me-not, dwarf, strong clumps. 2.00. Asparagus Plumosus, 3 in. pots. 2.00. Sprenger, 2 1/4 in. pots. 2.00. Dracena Indivisa, 4 in., 5 in., 8 in. pots, 10c., 20c., 40c. Sweet Alyssum, Little Gem; Petunia, Howard's Star. Giants of California, double, 2 1/4 in. pots. \$1.00 per 100. Cabbage, Wakefield, transplanted, \$1.00 per 1000.

J. S. BLOOM, Riegelsville, Pa.

Mention the Florists' Exchange when writing.

PANSIES - 200,000

Fine, large, transplanted plants, prize strain of the famous large flowering Bugnote, Caesiers, Odier and Trimardeau. Stocky plants, from cold frame. 50c. per 100, by mail; \$3.00 per 1,000, by express. Extra large plants, in bud and bloom. \$1.00 per 100. Verbenas, Mammoth, R. C., 80c. per 100, \$5.00 per 1000; 2 1/4 in. pots, in bud and bloom. \$1.50 per 100; \$12.00 per 1000. Stocks, Double White for Easter, \$1.00 per 100, \$5.00 per 1000; Daisies, Double White, 75c. per 100, \$5.00 per 1000; Feverfew, Double White, \$1.00 per 100, \$5.00 per 1000; Lobelia, Dwarf Blue, \$1.00 per 100; Ageratum, Dwarf Blue, 60c. per 100. Lobelia, in bud and bloom, 3 in., \$1.50 per 100. Coleus, mixed colors, 2 1/4 in., \$1.50 per 100. Petunias, Double fringed and dark blue, Heliotropes, bud and bloom, 4 in. \$3.00 per 100. HILLTOP GREENHOUSES, 15-16 Gray Ave., Utica, N. Y. Mention the Florists' Exchange when writing.

PANSIES 75,000

Fall Transplanted, large plants, in bud and bloom, an extra fine Market Strain of good colors and large bloom, \$1.25 per 100; \$10.00 per 1000; 250 at 1000 rate. Cash with order.

Charles Potter WEST BOYLSTON, MASS. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS PLANTS AND ROOTED CUTTINGS

Send for catalogue for varieties and prices.

MISCELLANEOUS

Table with 2 columns: Variety and Price. Includes Ageratum, Cope's Pet, White Cap, P. Pauline, S. Gurney, L. Bonnet, Achyranthus, four sorts, Coleus, best bedding and fancy sorts, Cuphea, Fuchsia, double and single, Feverfew, double white, German Ivy, Heliotrope, light and dark, Impatiens Sultan, Moon Vine, true white, Salvia, Splendens and Bedman, Salvia, new early flowering sorts, Vinca Variegata and Elegans, SMILAX.

Pansy Plants

Of my largest flowering mixture of SHOW varieties, unsurpassed quality, good size stocky plants coming in bud, \$3.00 per 1000. Belle (Daisies) largest double red and white, fine plants, coming in bud, \$3.00 per 1000. (All above 500 at 1000 rate.) GUSTAV PITZONKA, Bristol, Pa. Mention the Florists' Exchange when writing.

PANSIES

Extra fine transplanted, from cold frame, in bud and bloom, \$1.50 per 100; \$12.00 per 1000.

COLEUS

Rooted cuttings, Golden Bedder, Crimson Ver-schaffeltii, 60c. per 100; \$5.00 per 1000. Cash with order.

PETER BROWN, Lancaster, Pa. Mention the Florists' Exchange when writing.

100,000 PANSIES SUPERB STRAIN READY NOW. Fine, large Fall transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you ever handled. \$1.25 per 100; \$10.00 per 1000. Cash with order. LEONARD COUSINS, JR. Concord Junction, Mass. Mention the Florists' Exchange when writing.

Ready May 1st

PANSY PLANTS, Large, transplanted, field-grown plants; in bloom, elegant color, \$10.00 per 1000.

CHRYSANTHEMUMS. Rooted cuttings of Polly Rose. Can ship in any quantity at \$10.00 per 1000. There is more money in Polly Rose than any other chrysanthemum you can grow. Give it a trial. Cash with order please.

STEPHEN CHASE NASHUA, N. H. Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsmen and the Trade in General

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 577

News of the Week in Brief.

Ralph M. Ward & Co. have removed to 12 West Broadway, New York.

Some of the rose men answer in this issue the charge of non-progressiveness recently made against them.

The conditions governing the S. A. F. O. H. prize essay contest on "The Ideal Employer" appear in this issue.

The business of the Western Seed Company, of Shenandoah, Ia., J. R. Ratekin, manager, is in the hands of a receiver.

Wm. Elliott & Sons, seedsmen, New York, have postponed their removal from Dey street to Fulton street until July 1 next.

Clucas & Boddington Company, New York, will remove May 1 to 131 West 23d street to a location more suitable for transient trade.

Kansas City will have a flower show the week of November 13 next. The prize list will equal that of former exhibitions held here.

A. Whiting, the veteran florist, of West Hartford, Conn., who was for years a regular attendant at the S. A. F. conventions, is seriously ill, and there is little hope of his recovery.

The sympathy of the trade will go out to John T. Temple, of Davenport, Ia., whose wife died on April 19. Also to George Reinberg, of Chicago, in the death of Mrs. Reinberg, which occurred Saturday, April 22.

The bill asking the Illinois State Legislature for an appropriation to be used in experimental work on behalf of the florists by the State University of Illinois has been killed. An effort will be made to resurrect it.

The American Association of Nurserymen will have a "fruit banquet" at its annual meeting at West Baden Springs, Ind., June 14 to 16. All seasonable fruits will be available at the feast, as well as several brands of wines. J. H. Hale will act as toastmaster. The banquet will be followed by dancing.

American "tree carnations" are now extensively advertised in the English horticultural journals. One ad. says of Enchantress: "Unquestionably the most beautiful Winter-flowering carnation ever seen in this country. * * * This grand variety has created quite a sensation, and stands in a class by itself."

The issuance of helpful pamphlets containing cultural instructions, lists of plants for various purposes, etc., is becoming quite common with the most progressive, up-to-date seed and plant houses. The latest publication along this line to reach us is one entitled "Beautify the Home Place," issued by the Iowa Seed Company, of Des Moines, wherein the subject of landscape gardening is succinctly treated.

The Eckford Testimonial.

Subscriptions acknowledged.

The Florists' Exchange.....\$10
Burpee, W. Atlee, & Co..... 10

THIS WEEK'S SUPPLEMENT.

Acer Campestre Australe.

What is known as the common, or field maple, of England, is one of the prettiest and most useful of all the smaller growing species. Very many maples are of tree-like character, but *Acer campestre* is of shrub-like appearance, although attaining a tree in stature as it perfects its growth. When grown to but one stem when young, it makes a small tree and of tree-like habit; otherwise, allowed to grow as it will, it becomes of bushy outline, as shown in the accompanying illustration. This illustration is of a specimen growing in the white lot, not far from the President's grounds, Washington, D. C., and is one of several trees there, all so beautiful in appearance that we had a difficulty in deciding which to photograph.

Our specimen is not the typical form of this maple. There are numerous forms of it, many of them quite distinct; and, in fact, when a bed of seedlings is raised there are usually in it plants varying in character from others. One form of it, with much larger leaves than the type, is known as the Austrian maple, and this is the one seen in our illustration.

With age, our maple has rough bark, with deep fissures; and this has caused it to carry still another name—cork maple; but the bark is hardly of a character to warrant the applicability of this name.

In many of the parks of Washington, D. C., this maple has been planted, and, as the picture will suggest, from its style of growth and pretty foliage there is many a position it would grace. And it is no wonder that, in that city, as well as in many others, it can be found used to a great extent. There is this to be said, too, in favor of its use: it can be readily transplanted at the proper seasons—Spring or Autumn—and it flourishes in any ordinary situation.

It has been suggested that the typical form of this maple would make a good stock for the working on of the many pretty Japanese sorts; perhaps it would, and those who have it could make trial of it, but those who can obtain the common Japanese maple, *A. polymorphum*, have found it all sufficient for the purpose. But for the variegated leaved and other varieties of *A. campestre*, it is what should be used, the increase being by grafting, budding or inarching.

As to its own propagation, it seeds freely, and if the seeds are sown soon after they ripen, or if kept moist and sown in Spring, they grow readily. And this hint may be of use to all those who handle maple seeds. It is certain that, if allowed to become dry by exposure to air for a month or two after ripening, but few of them will grow. JOSEPH MEEHAN.

BOOKS RECEIVED.

JAPANESE FLORAL CALENDAR, by Ernest W. Clement. Publishers, The Open Court Publishing Company, Chicago.

The author of this delightful little volume was a resident in Japan for some time, and he now tells his American countrymen something of the flower, or flowers, popular each month in that interesting country, with some folk lore, poems, or other description thereof, illustrating his remarks with numerous beautiful pictures. The following represents the modern Japanese floral calendar: January, pine; February, plum; March, peach; April, cherry; May, wistaria; June, iris; July, morning glory; August, lotus; September, "seven grasses;" October, maple; November, chrysanthemum; December, camellia. Each of these has a chapter devoted to it, and the customs of the country in celebration of the respective festivals are entertainingly discussed. The cherry is the "prince of flowers in Japan," and the pale pink is the only one that takes first rank among cherry blossoms. The beauty of the trees in blossom is thus charmingly described by the late Lafcadio Hearn:

"When, in Spring, the trees flower, it is as though feeblest masses of clouds faintly tinged by sunset had floated down from the highest sky to fold themselves about the branches. * * * The reader who has never seen a cherry tree blossoming in Japan cannot possibly imagine the delight of the spectacle. There are no green leaves; these come later; there is only one glorious burst of blossoms, veiling every bough and twig in their delicate mist; and the soil beneath each tree is covered deep out of sight by fallen petals as by a drift of pink snow."

The popular conception of the lotus is illustrated by the following quotation:

"Though growing in the foulest sline, the flower remains pure and undefiled. And the soul of him who remains ever pure in the midst of temptation is likened unto the lotus. Therefore is the lotus carved or painted upon the furniture of temples; therefore, also, does it appear in all the representations of our Lord Buddha. In Paradise, the blessed shall sit upon the cups of golden lotus flowers."

The festival of the chrysanthemum has been practically merged into the Emperor's birthday, which comes on November 3. It is said that there are almost 300 different shades of color in about 800 varieties of chrysanthemum raised in Japan. In November, 1902, in the Imperial Gardens, Tokyo, there was one plant with 1,272 blossoms, each 2 1/2 inches in diameter. According to Mr. Conder, "the yellow kind ranks first."

A few remarks on the simple flower arrangement of the Japanese form the closing chapter. This art is considered by the "little brown people" as an "elegant accomplishment," and an important item in the education of women of rank. "But it appertained also to men of rank and of culture who might have retired from active life to the leisure of literary and esthetic

pursuits." It has been stated that those who engaged in this "fine art," would possess the following ten virtues:

"The privilege of associating with superiors; ease and dignity before men of rank; a serene disposition and forgetfulness of cares; amusement in solitude; familiarity with the nature of plants and trees; the respect of mankind; constant gentleness of character; healthiness of mind and body; a religious spirit; self-abnegation and restraint."

Copies of this very interesting little work can be procured from The Florists' Exchange.

PAMPHLETS RECEIVED.

THE SCHOOL GARDEN, by Professor L. C. Corbett, Horticulturist Bureau of Plant Industry, Department of Agriculture, issued as Farmers' Bulletin No. 218, is a useful publication and will be found, by teachers and others interested in this important work, of great service. The bulletin covers the subjects of planting vegetables and flowers; laboratory exercises, such as the studies of soils, roots, stems, leaves, different cuttings, grafts, etc. List of plants for window boxes and specimen plants for school rooms are furnished, as well as plans for the decoration of the grounds, with suitable trees and shrubs. The bulletin is profusely illustrated.



Mrs. Dunkley.

Mrs. Dunkley, of the Dunkley Floral Company, Kalamazoo, Mich., died at her home on Tuesday, April 25. The cause of death was heart failure. The funeral was held Saturday afternoon, April 29.

Mrs. John T. Temple.

Mrs. Josephine Temple, wife of John T. Temple, florist, Davenport, Ia., died at her home on North Brady street, on Wednesday night, April 19, after a lingering illness.

The deceased, whose maiden name was Josephine A. Hearn, was born in London January 21, 1846, and came to America with her parents when but 4 years old. She was married to Mr. Temple on December 30, 1863, and during their 37 years of married life they have lived at the present family homestead. In addition to the husband, Mrs. Temple is survived by three brothers, all living in the Dakotas.

The funeral was held on Friday morning from the home of Mr. Temple's sister, Mrs. Walter Downs, 1941 Brady street, interment being at Pine Hill Cemetery.

Society of American Florists and Ornamental Horticulturists.

President Vaughan has appointed E. B. George, of Painesville, as vice-president for Northern Ohio.

Prize Essays.

At the recent meeting of the executive board in Washington, D. C., it was voted to offer three cash prizes of \$25, \$15, and \$10 to be awarded for the first, second, and third best essays, respectively, on the subject of "The Ideal Employer," the essays not to exceed fifteen hundred words each. The prizes are donated by Treasurer H. B. Beatty.

Those wishing to compete are requested to send their completed manuscript to the secretary not later than July 15. The manuscripts should be unsigned, but the full address of the writer should in all cases accompany same. The awards will be made by a competent committee, and the names withheld until after a decision has been made.

WM. J. STEWART, Secretary.

Appreciation from Far-Away Australia.

Editor Florists' Exchange:

Please find enclosed \$2 P. O. O., in payment of subscription to The Florists' Exchange, which I find a most interesting paper, comparing favorably with any English periodical of its class. It deals with most subjects in such a way that one cannot fail to be benefited by reading them. Carnations and chrysanthemums are chiefly my lines, and through reading the various articles on these I have become possessed of some very fine varieties, such as Prosperity, Stella, Peru, Enchantress, Harlowarden, Ethel Crocker, and others in carnations. There is one thing I should like to impress upon your raisers, viz., do not go for size at the expense of the calyx. Also, when a new variety is raised, see that it is distinct from existing kinds, as I find in several whites and pinks it is only in habit of plant you can find a difference. Sleepiness may be constitutional in some; coddling causes it in others. So far as rust is concerned, with me Lillian Pond is a rotter. It must be in the, say, blood, as all other kinds are free owing to a limestone soil and good drainage. Where you house in Winter, we flower outside, which shows you what our climate is at that time.

Nephrolepis Piersoni is a fine thing.

JAMES BEGGS.

North Adelaide.

OUR READERS' VIEWS

Curled Leaves on Ten-Week Stocks.

Editor Florists' Exchange:

Regarding the question in your issue of March 25, page 406, on "Curled Leaves on Ten-Week Stocks," I beg to say that it is not the temperature that is responsible for the curling of the leaves, but there must be another fault in the cultivation. Most likely the soil is kept too wet, so that the roots have rotted. Stocks must be watered in Winter and Spring very carefully; they can stand to be dry, even very dry, much better than damp. The soil may look even very dry on the surface, but the plants will look, and they are, much healthier than if the surface of the soil is kept moist. My seed beds of ten-week stocks very seldom have a watering from the time that the seeds have been sown—that is, about February—up to the time that the plants are planted, from the beginning of April to the middle of April. When the leaves show a bluish-green color, then it is time to water; but as long as the leaves are of a fresh, green color the plants require no watering at all. When the leaves become curled, the soil is too wet, and the roots rot. If kept perfectly dry, they will make fresh roots, and in a short time the plants will show a healthy appearance again. But if such pots, or beds, are watered again, the leaves fade, or wither, and the plants die off. A matter requiring attention is to give ten-week stock plants as much air as possible.

FREDERICK ROEMER.

Germany.

Rosarians vs. Carnationists.

Editor Florists' Exchange:

This subject leaves room for endless discussion. There are several reasons why the men who handle and grow carnations seem to be more progressive than rose growers. We should consider that carnations are soft-wooded plants, requiring less attention, and are easier grown than roses. They are more continuous bloomers and free from thorns, consequently it is easier to pack them. The carnation plant also requires less time, after its removal from the field into the greenhouse bench, also less skill, to bring it into good blooming condition; then we should not forget the lower temperature it will grow and thrive in as compared with the average rose plant.

Another strong factor also helps the carnation grower: as the plants are not difficult to grow from seed, he has a far better opportunity to keep his stock renewed than the grower of roses.

In this locality the carnation growers outnumber the rose growers probably forty to one, and are annually getting new recruits, because a man can engage in the business of growing carnations with limited capital and little or no experience, and if he is industrious he generally succeeds.

The carnation grower has smooth sailing compared with the average rose grower at the present time. He will come in contact with plenty of snags in the near future, as the continuous breeding of the plant under glass will have a tendency to weaken the stock; and while the size of the flowers may be increased, it will likely be at the expense of other desirable qualities, such as hardiness and vitality.

On this matter of vitality in plants, I think Mr. O'Mara struck the keynote when he stated at the New York Florists' Club meeting that, in his estimation, the most important quality in a rose or other plant is its constitution. The writer is well aware that the wholesale man does not care a snap about the constitution. But there are other men besides the wholesale commission men to whom this matter of constitution in plants means volumes. At a later date the writer may have something to say on the subject of constitution in roses and other plants.

If rose growers have not advanced in the same proportion as other plant growers, who and what are responsible for this? There is a glorious future for the rose grower and breeder; there are noble workers in the rose field, men who are giving us new types of such beauty and hardiness that they will grow and thrive as the oak of the forest. Such will be the hybrid rugosas in the near future.

West Grove, Pa. ANTOINE WINTZER.

Editor Florists' Exchange:

"O, wad some power the giftie gie us

To see oursel's as ithers see us."

Why are carnation growers more progressive than rose growers? Mr. Ward seems to have settled this question to his entire satisfaction. He tells his audience that we are conceited. "O, Lord, deliver us from such a slur." Let Mr. Ward read the above lines of poetry, think and ponder over them, and next time, when making a speech, he will be careful to choose his words. I never knew a real lover of the most beautiful of God's flora to be in any way conceited, or who acted in any sense to give Mr. Ward, or anyone else, that impression. Then he goes on to say that we have no energy. Does he class such men, leaders in the profession, as May, Montgomery, Hill, Cook, Elliott, Dawson, and I could give an endless list—shades of Dean Hole—does he say the above men have no energy? Look at their places and see if it was luck, "blind luck," or energy that has made the places those men either preside over or own.

I am at a loss to understand how, why or where Mr. Ward gets his definition. We read that in Panama, when 75 men are wanted they have to hire 100 to get the above number at work; probably Mr. Ward got Panama confused with America proper. I know

a pair of rose growers in Boston—Wm. Anderson and John McFarlane, "braw laddies"—who don't look like tropical inhabitants, and as far as energy goes, though burdened somewhat with flesh, they are hustlers. They are a good sample of what can be produced in a tropical climate.

In conversation with several wholesalers, whose words are above impeachment, they say that the sales of roses are far in excess of those of carnations. Will Mr. Ward kindly explain this? There surely has been some hustling done to obtain this result. The rose men have been educating the public by producing a high standard of excellence, while the carnation men have been bringing out new varieties and following along under the protecting wing of the Goddess of Flora. A few years ago John Thorpe predicted the three-inch carnation. Some people stood aghast, and were troubled about John's sanity. He saw there was room for improvement in his favorite flower, and the carnation to-day is a long way from being at the top.

"Where McGregor sits, that's the head o' the table." Where the rose sits she commands the admiration and respect of all flower lovers, carnation men not excepted. Burns says: "Ye roses on your thorny tree, the first o' flowers."

I wish we could have a discussion on this matter. I believe The Florists' Exchange would gladly give the use of its columns to a healthy argument on the situation. But it seems to me the best way to settle the argument would be this: Next year let both societies meet in Boston. Couldn't they unite in giving their exhibitions at the same time, in the same hall? The committees of both societies could meet and arrange the details. If they do this, and agree, I will dress up in kilts, get John Birnie to lend me his pipes, and play Mr. Ward up Huntington avenue to the exhibition to the tune of "Wha'll be king but Charlie?" and he will probably admit, after seeing the rose in all her glory, that she is the peer of any other flower, and that the rose growers of America are not, nor have not, been asleep, nor have they lost any of their old-time energy.

Natick, Mass.

ROBERT T. MCGORUM.

Growing Freesia.

Editor Florists' Exchange:

In my article "Growing Freesia," in last week's issue, there are several slight mistakes in punctuation which I would like to correct, as the article would be very misleading if left as it is, especially to those who have never grown freesia. With your permission I will repeat the last paragraph:

"Now a few words about the time of blooming. They can be brought into bloom for Christmas by growing them in a rose temperature. I usually cut my first blooms from the 8th to the 12th of January, in a temperature of 45 degrees at night. Those in the warmest houses bloom first. I started cutting on March 15, in a house that was planted at the same time as those I cut in early January; the difference in temperature made the difference in time of blooming. The late blooming house was kept just above freezing; the flowers in it were grand. In March the freesia should be heavily shaded to prevent the flowers from becoming small."

I desire to say a few more words which I would have done last week only for the fear of taking up too much of your valuable space. It is about the care of the bulbs after the flowers are cut. I save all my own bulbs. The stock I have had been grown by me for 22 years. In all that time I have never purchased any fresh stock, for the good reason that there is not any to compare in quality to mine, which everyone can testify to who has seen my flowers; exploding the theory that it doesn't pay to save your own bulbs. After the bulbs are done blooming the foliage is cut off, about two inches above the earth, and the bulbs are ripened off by gradually withholding the water if the bench room isn't needed. But if the room is needed, I lift the bulbs out with as much earth as possible, using a trowel, and put them under the bench to ripen off, which answers just as well as leaving them on the bench, only it is a little more trouble. Then on wet days, in June, they are picked out of the soil and put in flats, or boxes, until all are done. They are then sifted through sieves of different size mesh to sort the bulbs into sizes. I save all my bulbs, both large and small. The large ones are sold and the small ones I plant. Those of the large ones left unsold are also planted. The culture I gave in my article of last week was for large bulbs. The small ones I plant in rows, two inches apart, and one inch between the bulbs in the rows. These bulbs are about the size of dried wax beans, and as small as peas. From these I cut fine flowers. The only difference is that they are shorter in the stem than those produced from large bulbs. I wouldn't think of planting bulbs so small of the ordinary freesia, nor would I advise anyone else to do so.

If there is anything else concerning freesia that I can answer at any time, I shall be pleased to do so.

Great Neck, L. I.

R. FISCHER.

Damaged by Lightning.

PEKIN, ILL.—George A. Kuhl's greenhouses were struck by lightning on the afternoon of April 21. Damage was done to the extent of \$2,000 or \$3,000. The bolt struck the large smokestack, and cement blocks, brick and debris were hurled in every direction. The cement, bricks, and pieces of plaster rained through the glass roofs about the greenhouse, and the interior resembles a wrecked building.

The Commission Man and His Defects.

Editor Florists' Exchange:

"The Gatherer" is evidently a pessimist. He believes, or pretends to believe, that our little controversy will be profitless. I beg to differ from him on that point. That there are delinquents in the commission dealers' ranks "The Gatherer" himself admits, and what has been written on the subject will no doubt direct the attention of those delinquents to the error of their ways, and induce him to reform, mend their methods and be "up-to-date," just like those "up-to-date" commission men whom "The Gatherer" has discovered by "looking" for them. It will also be apt to cause the grower to start out on a quiet hunt for those "up-to-date" places, thereby benefiting himself and increasing the "up-to-date" man's business.

But there may be different ideas of what "up-to-date" handling means. Some time ago, in passing through the commission district, I saw a box taken from an express wagon, slid across the sidewalk, rolled down the steps and turned end over end into a commission store, without a word of remonstrance from the commission man, and that box did not contain "green goods" either. Now, from the grower's standpoint, that is not up-to-date handling, and a big percentage of the carnations classed as sleepy in the average commission store are not sleepy at all, only bruised, and have a shopworn look, caused by such treatment as I have described above, and supplemented by the handling touched on in the paper read before the New York Florists' Club.

"The Gatherer" hints at "inefficiency" on the part of the producer. Where is the grower who can produce flowers tough enough to stand such treatment? The market gardener handles his cauliflower with far more care!

The "poet's" flowery effusion reads nice, but he is only playing to the gallery. He knows that there are only two nights in the year (Easter and Christmas) that the commission man has to "hustle through the live-long night," and, no doubt, it pays, or he would not do it. Picturing the commission man as part martyr, part philanthropist, puts him in a new and rather ludicrous light. That question, "Where would the retail florist business be without you?" is a good one, and the answer is better. According to the "poet," the commission man is the pooh-bah of the flower industry, carrying retailer and grower alike on to fortune, "sacrificing" himself for their benefit at every opportunity, never "complaining," because he has nothing to complain about.

"We cannot do without you," chants the poet. That is true. The commission man is a necessary evil under existing conditions; but there is no reason why those conditions should continue to exist. Let every grower who sells what he produces in New York join the New York Market Florists' Association, an incorporated body, organized for the express purpose of getting a suitable building in a suitable locality, in which to sell plants, flowers, nursery stock and greenhouse products, at wholesale. Only growers admitted to membership. It is worth inquiring into. The seed is sown, and we hope to grow into a vigorous plant. The commission man will do business in the proposed market as the grower's agent, pure and simple.

I will pass over the Boston editor's bouquet, and, as regards that "axe," I will reserve my opinion.

JOHN BIRNIE.

CLUB AND SOCIETY DOINGS

THE TRI-CITY FLORISTS' ASSOCIATION met last week at the home of Henry G. Pauli, on Elm street, and Eastern avenue, Davenport, Ia. Adolph Arp, superintendent of Central Park, read a splendid paper on "Shrubs and Herbaceous Plants," which was discussed by the members present. Music was furnished by Miss Helen Pauli and Harry Bills of Davenport and Henry Meyer, of Rock Island. The next meeting of the association will be held on May 11, at the home of Florist Henry Gaethje, of 1607 Second avenue, Rock Island. The meeting will take the form of a farewell event for Mr. Gaethje, who contemplates leaving during the latter part of May for a three months' trip to Europe.

MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—The meeting of this society was held in Red Men's Hall, Oceanic, N. J., April 21. The winners of the prizes for "Fruit Culture Under Glass"—Percy Hicks first, and Harry Griffiths second—read their respective papers. The two gentlemen are employed at Mr. M. C. D. Borden's estate, under Wm. Turner, superintendent. Both of the papers were so fine that it was no easy matter for the judges to give their decision. We have often read papers on "Fruit Culture Under Glass," but we have never before had a chance to read papers which covered the ground so completely as these, and the two gentlemen, although assistant gardeners, can take up the pen in competition with any experienced fruit grower. "Chrysanthemum Culture" is the subject on which essays were handed in to the secretary last night, to come up for prizes at the next meeting. H. A. Kettel exhibited the following tulips: Canary Bird, Pink Beauty, Belle Alliance, and two pæonia-flowered varieties—pink and yellow. The two latter are really beauties, and I am sure will be grown more extensively in this part next year. They scored 95 points. Wm. Turner exhibited some beautiful *Catleya Mossie*, which received 95 points, and some fine *Lælia purpurata*, seven flowers on a spike, and beautifully marked, which also scored 95 points.

B.

TALES OF A TRAVELER

Lower California.

Until one has traveled the State of California to some extent he fails to realize the amount of territory which the State embraces. "Southern California," according to general usage, means Los Angeles and the section about that city, including the orange-growing sections about Redlands and Riverside and the points along the coast which are so easily reached from Los Angeles, such as Redondo and Santa Monica. Lower California embraces a section of country which is as large in area as many of our Eastern States, below Los Angeles and bordering New Mexico.

Passing from Los Angeles to San Diego, which is the center of this lower section, we pass Oceanside, which is perhaps next to Redondo in the quantity of flowers produced. Practically everything is grown out-of-doors, and Los Angeles is the market for the output.

San Diego is situated within a few miles of the Mexican border, and the harbor gives it a great many advantages commercially, while the climate is considered ideal by those who have come to San Diego to make their home because of the even temperature and the climate. As a town it is one of residences and not a commercial town. It is a town with less transient trade than many which are more in the line of travel, although many tourists make their way to

covered by Mr. T. S. Brandegee, a noted botanist of this State, and in company with the discoverer Miss Sessions visited this remote locality and secured about 2,000 seeds in 1903. The palm is named *Erythea Brandegeel*, and now that these seeds have germinated Miss Sessions has, so far as is known, all the stock of this palm that there is outside of its native locality. It is a palm of the fan-leaved type, and a very slow-growing plant.

Cocos plumosa is largely grown here, and finds a ready sale for street planting. Three small greenhouses are used as propagating houses, and the lath structures which are so typical of California are used for asparagus and numerous other plants which require a moderate shade. In the field are some 12,000 carnations, and a large quantity of bulbous stock, as well as a plot of roses. The nursery comprises some fifteen acres, and the variety of the stock grown makes it an interesting place to the visitor.

A nicely equipped store on Fifth street, of which I am able to show you a photograph, handles the product, and a capable corps of assistants is there to serve those who buy flowers in semi-tropical Lower California.

W. R. PIERSON.

Spring Show at San Francisco.

The fourth annual Spring flower exhibition of the Pacific Coast Horticultural Society, in conjunction with an elaborate charity exhibit given by the Pacific Coast Forest, Fish and Game Association, was held in



FLOWER STORE OF MISS KATE O. SESSIONS, SAN DIEGO, CAL.

Coronado, passing through San Diego to this beautiful resort across the bay.

Some fifteen years ago Miss Kate O. Sessions began growing flowers in San Diego, and to-day she stands as a floricultural leader in Lower California. Miss Sessions is a noted botanist, and her love for flowers and plants has brought about an interest in them, and her business ability and floricultural knowledge have built up a large and profitable trade in cut flowers in an almost tropical climate. It was my good fortune to spend the morning of February 13 among the various parts of the nurseries of which Miss Sessions is the owner, and to see what can be done when perseverance is combined with skill in the production of good stock, which is grown in a climate so dry that irrigation only can be depended upon for moisture.

The leading feature of the nursery is the poinsettia fields, and there are here some 8,000 plants which have been grown for cut bloom. Los Angeles and San Francisco open a market for cut poinsettias, and this immense field was a mass of color when cutting began in December. The blooms were shipped from here by the thousand, and that is saying a great deal when the bulk of the cut poinsettia is considered. Three-year-old plants were the ones which produced the most bloom and the largest flowers.

F. S. Sessions, a brother of Miss Sessions, has charge of the nursery, and in reply to an inquiry from me as to the handling of these blooms to insure their keeping he gave me a description of his method which proves satisfactory. As soon as cut the stems are put into boiling water for a quarter of an hour, which softens them to almost a mush. Then they are placed in cold water until ready for shipment, and there is no difficulty with them after this treatment.

To the botanist or the collector of rare palms there is one here of interest. This palm, I am informed, is grown by no one else in the United States, and is known only to a very few. It was discovered a few years ago in the deep, dark, canyons of the peninsula below California, in Mexico, and specimens are growing there which are eighty feet in height with a trunk not over eight inches in diameter. The palm was dis-

covered by Mr. T. S. Brandegee, a noted botanist of this State, and in company with the discoverer Miss Sessions visited this remote locality and secured about 2,000 seeds in 1903. The palm is named *Erythea Brandegeel*, and now that these seeds have germinated Miss Sessions has, so far as is known, all the stock of this palm that there is outside of its native locality. It is a palm of the fan-leaved type, and a very slow-growing plant.

Roses, best and largest collection grown under glass—Ferrari Brothers. Best and largest collection, field grown—Mr. Luderman (Pacific Coast Nursery). Twelve blooms in vase—Ferrari Brothers.

Carnations: Best and largest collection—John H. Stevers Co., first; Ferrari Brothers, second. Vase of 25 or more blooms—John H. Stevers Co.

Iris, best display—H. Platt. Clematis, best display—California Nursery, silver medal. Pansies, best and largest collection—Mr. Kettleman, gardener to George A. Pope. Lilacs, best display—P. C. Meyers. Shrubs in flower, best collection—W. H. Crocker. Plants, decorative, best collection, staged for effect—H. Platt. This prize was given by the Cox Seed Company. Best specimen—F. Glise. H. Platt was awarded \$10 for best and largest collection of ferns, \$5 for best fern specimen, and special prize for best hanging basket. Best collection flowering plants, not less than 25 plants in flower—H. Pfenniger. Azalea and rhododendrons—Ferrari Brothers.

ALVIN.

Flower Show in Kansas City.

A flower show will be held in Convention Hall, Kansas City, Mo., the week of November 13 next. While the plans are not fully outlined, they indicate that the show held this year will be the finest ever given in this city, as a number of new features will be introduced. George E. Kessler, of the park board, who is a member of the committee, and who has consented to assist the directors of the hall in preparing the show, will have charge of all the floral features, and Mr. Kessler is already preparing for an active campaign in this department. While the prize list has not been decided upon, the sums offered will be so generous as to attract exhibitors from all parts of the country.

Cyclamen Persicum at Boston Spring Show

Among the many good things seen at the recent exhibition of Spring flowers at Boston nothing caused so much comment and favorable discussion as the cyclamen exhibits. Everyone who saw them was much impressed, and the unanimous verdict was: "Such splendid specimens were never seen before anywhere." A few days later the writer called upon Jas. Stuart, gardener to Mrs. Fabyan, Brookline, Mass., who was an exhibitor. The plants looked little the worse of their exhibition experience. Mr. Stuart modestly alluded to his success and very willingly complied with a request to outline his cultural methods. The largest and best plants were three years old and it is Mr. Stuart's intention to grow them on still another year.

The seeds are sown in flats in the ordinary way about the month of August, and a good strain of seed is always secured; Mr. Stuart often saving his own seeds from his best flowers. He says: "The first mistake in cyclamen culture is usually committed in the early stages of their infancy. Too often they are potted when the second or third leaf appears, whereas if they are left in the flats until they are quite bushy, say, ready for a 3-inch pot; the growth is not only much more rapid, but the plants are always vigorous. Of course, they are not allowed to overcrowd one another, but are worked over and spaced just as soon as occasion demands. But great stress is laid upon this early treatment, as plants stunted in small pots rarely make good later."

The soil used is of a light nature, equal parts of loam, leaf-soil, and well rotted cow manure, and this compost is used throughout with a slight addition of some commercial fertilizer for the larger plants. In Mr. Stuart's case, the plants are grown in the greenhouse all Summer, on a north bench. They are not then so liable to be neglected as when put outdoors under sashes. They are carefully watered and syringed overhead several times a day during hot weather, and by the time they are a year old they are ready for a 6-inch pot in which size they are flowered the first year. A liberal amount of liquid fertilizer is given during the flowering season, but this can easily be overdone, and the plants seem to thrive and flower better when not pushed too hard. In the present case, the blooms are not used as cut flowers, but are allowed to remain on the plants for greenhouse decoration and they are a very pretty show most of the Winter months.

About the present time, when flowering naturally ceases, the leaves begin to ripen and decay, and every evidence of maturity is observed. The plants are again moved to the north bench to their summer quarters. But note here the change. (They are usually thrown under the bench and left to the ravages of red spider, wood lice and any other bug or crawling thing that may feel disposed to prey on them, and then about the month of July or August, after they have been thoroughly dried up and some one has time to look them over, they are unearthed; all the old soil shaken off; repotted and started away again feeling very much the result of their handicap.) They are never subjected to the drying off process. Liquid manure is withheld and watering is done more sparingly for a time. All flower stalks and leaves are picked off when they begin to wilt, otherwise if left to decay they will injure the bulbs. But the plants don't lose many of their leaves, and just as soon as the quiescent stage is over and growth again commences naturally, they are repotted. The old ball is never broken up; they are simply moved from a 6 to an 8-inch pot and so on; and this one shift is sufficient for the season. The same treatment as for younger stock is meted out, and thus they are kept going from year to year.

The largest plant seen at Boston was nearly 3 feet through, a mass of bloom and was admired by everyone. The flowers also were exceptionally large: Mr. Stuart said: "That plant had not been shifted for two years." It is his intention to give it a shift this year, and if it does as well as it has done it ought to be worthy of the society's silver medal the next time it makes its annual visit to the Massachusetts Horticultural hall.

Such plants may not be profitable from a commercial standpoint, but they are an inspiration to every true gardener, and the lesson they would meekly teach is: "Go thou and do likewise."

JAS. T. SCOTT.

TO CLEAN SMOKY GLASS.—The glass of our greenhouses is black, and it is only by repeated washings we keep it fairly clean. For this purpose we use a solution of hydrofluoric acid. First wet the glass, then with a wide soft brush wipe it over with the solution, and immediately wash it off with clean water. The acid cuts and unfastens the dirt on the glass. But all plants must be removed for the time being from under the glass, as every drip of the solution on the leaves means a spot. This saves an immense amount of rubbing. Don't be afraid of it; we have been using this for years. But don't use it too strong; dilute it with water. We have tried many other things—oxalic acid, murlatic acid, etc.—but found nothing as good as the hydrofluoric. The deposit of soot here is persistent; it is falling every day in the year; and this is why our commercial florists have been driven to the suburbs and outside towns.—W. Falconer, Pittsburg, Pa., in *The Garden*.

Easter Trade Reports for 1905

The reports which follow show that, in general, the Easter business of 1905 was fully up to the standard of its predecessors; in several cases being in advance of that of 1904. Notwithstanding the lateness of the season, with the possible exception of violets in some cities, there was a plentiful supply of cut flowers and plants. There was a good call for carnations and lilies. In New York City the cut flower trade was a disappointment. Stock for this market was plentiful beyond expectations, far in excess of the demand; consequently, large quantities were left unsold.

The late date helped the plant trade. The usual stock available at Easter, together with quantities of the general run of bedding plants, all found a ready sale. Genistas seem to be no longer favorite staples for this festival. The azalea continues first choice in many cities; hydrangeas and spiraeas were also good sellers; and lilies, of course, are still extensively called for. Heaths have been introduced into some of the Western markets with satisfactory results. Nothing of a particularly novel character in plants is reported. The Baby Rambler rose, wherever offered, found ready takers. Throughout the whole of the country it is observed that but few of the extra large plants are called for, these being mostly used by the store men themselves for display purposes. Easter, 1906, comes on April 15.

NEW YORK.—Plants of nearly all kinds sold well, but cut flowers were not in such good demand. Retailers are satisfied with the showing, but the wholesale market did not come up to expectations. Business fell away early on Saturday and did not pick up again, the consensus of opinion being that there is too much stock in cut flowers produced for this market.

We had beautiful weather for Easter—clear skies, no wind, moderately cool temperature, and everybody in good spirits anticipating a glorious harvest. It is all over now, and there have been many disappointments, which, however, are confined to the cut flower end of the business. Plantmen had a splendid run, and everything that was good and salable found a buyer. This result was not brought about by any deficiency in the quality of the flowers either. We never before saw better stock for Easter, and while there were isolated cases of flowers weary with age reaching the market, these were few and far between, and scarcely noticeable, there being such a plentiful supply of really superfine stock available.

What a pity it is that we have no Dickens in our midst to give to the world a history of our night market scenes. Our plant market over on the West Side would have been an ideal spot for him to wander about; the close bargainings and the coarse though good-humored repartee would have furnished that author many choice bits for his Key of the Street. It is here, on the West Side, in two spacious canvas tents, where the business of the day commences. The New York Market Florists' Association has not yet got that elegant store building for a market, the plans and drawings of which were made some years ago, but the city kindly allows them to use the ground space (for a heavy rental), and here, under the shelter of the tents, the beginning of the Easter trade is launched forth. It is scarcely past midnight when the growers begin pouring in from New Jersey and Long Island, and hardly have they got their array of plants arranged in their respective quarters before the army of plant peddlers begins to arrive. These itinerant plant sellers are weatherwise to an almost unlimited degree, and long before the first streaks of the dawning day they knew on Saturday that a fine clear day was assured. Besides being weather sharps they are shrewd to a marked extent. They are regarded in some circles as missionaries for the florist. Be that as it may, they know how to buy plants, and from 3 o'clock in the morning until the growers have disposed of their last plant it is one continual battle of wits between the latter and these traveling retailers. The plants offered for sale embraced everything in season almost, from the modest verbenas in 2 1/4-inch pots up to the massive rhododendron in a 14-inch tub. Lilies of every grade of quality were offered, and they fetched anywhere from \$2.50 to \$5 per dozen. Spiraeas brought from \$3 to \$5 per dozen; geraniums, \$1; heliotropes, 50c. and 90c.; h. p. roses, \$4 to \$5; Rambler roses, from 75c. each upward. Verbenas reached 35c. per dozen, Ivy geraniums 85c. per dozen, and hydrangeas from \$3 to \$6 per dozen. Not so many azaleas and lilacs were offered, these plants being considered rather too expensive for this market. Genistas, stocks and cinerarias, in small lots, were cleared out at fairly good figures, considering that they were mostly in small sizes. The best sellers in the market were undoubtedly Rambler roses and geraniums.

As the plant vendors are starting away with their loads of fragrant blossoms, another phase of the flower industry is commencing to bustle with activity in the Coogan Building, corner of 25th street and Sixth avenue. Promptly at 5 a. m. the manager's bell rings, and the Cut Flower Exchange is at once a Babel of sounds in many languages. There was an ample supply of flowers here, brought in by the growers themselves, each having his allotted portion of counter space, and the counters were piled high with such flowers as carnations, tulips, callas, lilies,

narcissus, double and single roses, sweet peas, stocks, ferns, lilac, etc. There was a lively scrimmage from the very start. Prices were held quite firm, but buyers were numerous; in fact, the floor was crowded almost to being impassable, everyone anxious to secure what he needed in the shortest possible time.

The Easter trade here was remarkably good, and prices more than satisfactory. Carnations realized from \$3 per 100 upward; lilies, \$3 and \$10 per 100; lilac, from 50c. to \$1.50 per bunch; General Jacqueminot and Ulrich Brunner roses, from 10c. up, according to grade; moss roses, \$1.25 per bunch; sweet peas, \$1.50 per dozen bunches; callas, \$1.25 and \$1.50 per dozen; tulips, \$2, \$3 and \$4 per 100; narcissus, \$2 and \$3 per 100; stocks, 35c. per bunch.

Just as the Cut Flower Exchange has completed its morning of activity, the wholesale commission district takes on a very animated aspect, and the more serious proceedings of the day's business begin to develop. Immense loads of flowers arrive by every express, and there is a general feeling of contentment and pleasure in anticipation of what promises to be a record-breaking Easter, in so far as good values and quick clearances go. Prices along all lines had been steadily advancing for several days. Most of the stock received was of prime quality; added to that there were rumors afloat that the supply of flowering plants had run short. Expectations were naturally high; the early morning flower market had pointed to lively dealings, and it was a foregone conclusion that everything would sell out slick and clean. But, alas, by 10 o'clock in the forenoon a profound dullness was felt in the whole district; it became evident that the cut flower market was over-supplied, and such a thing as firmness in values was out of the question. It had been confidently expected by some that American Beauty roses would touch the half-dollar mark, and that tea roses would climb to twenty cents; but such figures never materialized. Business continued draggy all through the day, and through the night, for the stores kept open right through waiting for the rush that never came. Lily of the valley and first-class violets did, however, find a good demand. It was surprising where all the violets came from, seeing that there had been such a scarcity in the early part of the week. Over 300 boxes came down the river in the afternoon, but many of them should have made the journey several days earlier, as they had become quite passe in the meantime, making but a poor impression when they arrived, and creating nothing but disappointment and disgust among those who had the misfortune to handle them. Held up roses are bad enough, but violets that have been kept back are a thousand times worse, and we wonder why such things happen. When Sunday morning arrived it was found that a vast amount of stock remained unsold. American Beauty and other roses, all of special grades, were on hand in almost unlimited numbers. There had never before been such a quantity of special grade stock available, and for that grade there had been no better call than is felt on an ordinary Saturday. It did not seem to be a question of price, either; there were no offers for the stock. The asking prices for Saturday had been 35c. and 40c. for American Beauty; 25c. for Liberty, 30c. and 40c. for the best Ulrich Brunner, and 15c., 12c., 8c., 6c. and 4c. for Bride and Bridesmaid; short grades went fairly well, but special and extra grades were not in demand.

In carnations, Prosperity was offered at 10c. and 8c.; Enchantress, 8c. and 6c.; Mrs. Thomas W. Lawson, 6c. down to 4c.; William Scott, Mrs. Frances Joost and that class, 3c. and 4c., with white varieties at 5c. and 6c. Prosperity and the white kinds were left over to some extent, but the others cleared out fairly well.

Violets were held firm at \$1 to \$1.50 until the evening shipments arrived; then when it was realized that so many were off grade, a general cutting took place,

and those only of standard merit went through at the prices mentioned. Cut lilies brought 8c. and 10c. and there were plenty to fill all requirements and some to spare. Lily of the valley went well until Sunday morning, but the shipments arriving at that time proved too late, as the demand was over.

When along in the afternoon of Sunday the wholesale houses were finally closed, they did so with large quantities of stock on hand; and it was generally conceded that the Easter trade had been a very disappointing one indeed. Stock had been plentiful beyond all calculations, and had exceeded the demand to such an extent that average prices would naturally fall away below what had been expected.

Among the retailers plants, as usual, played the most important part, and while here and there buying had been too heavy, with the result that there was a fair amount of stock left over, as a general thing the plant trade was good. Made-up hampers of small flowering plants went off very well; hydrangeas also were a good thing, as were potted lilies and violet plants. Rhododendrons were not so much in evidence as they have been in former years. Genistas were quite numerous and proved poor sellers at most stores. Azaleas, in bright colors, went well enough, but there was quite a lot of the white ones left over. Roses were in good demand and the supply was fairly well cleaned out all over. Very little ribbon was used compared with the former lavish displays. In cut flowers, the business went behind that of other years, and while no plunging had been attempted, most of the stores had quite a supply of flowers left on hand when the business of the day was over.

PHILADELPHIA.—Easter business has apparently been very satisfactory to growers, wholesalers and retailers. There was no surplus of either plants or flowers. A good many lilies were around this week, but as there were weddings every day, these flowers are being used up. The stock of plants offered was about the same as in the past few years. There were more blue hydrangeas seen here. The plants of Hydrangea Hortensia were more numerous and, in many cases, were grown small and found favor with buyers. As usual in this market, plants at from \$4 to \$10 at retail were the best sellers. Not so many very large plants were seen. Nearly every store had a few Bougainvillea Sanderiana in large sizes, but these were bought for show, and while some were sold, sales were not really expected. The same with azaleas; nearly every store disposed of a few of these at \$25 to \$35, but not many were around, probably three or four to a store. Made-up baskets of plants were not in as large quantities as in the past few years, and were not asked for by buyers. All plants were in very good condition; in fact, rather better than was looked for. The majority of the lilies were in good shape; although a few were seen with brown tips to the leaves.

The cut flower men appear to have done a very good business, and nearly all the wholesalers were able to fill their shipping orders except some varieties of carnations. The supply was such that prices were advanced, in some cases, 100 per cent.; and while this caused some to hesitate, yet the market was well cleaned up of all the Easter stock. Lilies went slowest; this was most notable in cut flowers. Several large orders, filled in past years, were not forthcoming this Easter, and several growers had stock left. There were probably more lilies around; and then, figuring probably on the advance on other flowers, some growers held out for 12c. per bloom, while buyers were able to get all they wanted at 10c.

All the retail store men appear to have cleaned up well; in fact, some of them had to replenish supplies on Monday. This week has been such a good one with wedding work that anything left was used to advantage.

Charles P. Poryczne had the misfortune to have his Chestnut street store burned out on Sunday morning at 2 o'clock. His loss in stock was considerable, as lots of orders for Sunday delivery were yet there. The worst loss was his order book, containing the Saturday and Sunday orders; the charged orders being all lost.

DAVID RUST.

BOSTON.—Easter trade in several cut flower lines was rather disappointing. It had been expected that everything would be sold out and that of some things, such as violets, there would be a scarcity. This was not the case, however, although all colored flowers were pretty well sold. White flowers of all kinds went slowly; especially white carnations, which hardly could be moved at any price. In roses, Liberty was a fine seller, some extra fine blooms bringing \$6 per dozen, although the general price was \$3 and \$4 per dozen. American Beauty, of course, held their own and proved one of the best sellers, but no material advance in prices was made, \$6 per dozen being the ruling quotation for best grades. There was a large demand for the shorter stemmed flowers.

All colored carnations sold well, Mrs. Thos. W. Lawson and Enchantress being the most popular varieties, selling at \$4 and \$5 per 100. White varieties, as before stated, went slowly, and as at Christmas time, were inclined to be a glut. Lilies were plentiful, and the quality was

good; they brought from \$8 to \$12. Violets, which were supposed to be scarce, were more plentiful than anticipated, selling at \$1 and \$1.25. Lily of the valley was plentiful; in fact, this was one of the flowers that went slowly, at \$1 to \$4. Tulips sold well, excepting white varieties, at \$2 and \$4. Daffodils went fairly well, with no advance on prices. J. W. D.

PITTSBURG.—Easter trade was good, but hardly any better than last year's with most of the dealers. The trouble is that more stock is put on the market every year than there is demand for. Competition was sharp. Some flowers were sold very cheap just to make them move. The weather was moderately fair on Saturday, after a raw cold spell the whole week, so that plants did not sell so well as was expected; but the supply of good plants was better than ever before, and prices realized were very good. Azaleas held out well for Easter and sold at usual prices from \$1.50 up. Hydrangeas were fine, with nice heads of bloom; they brought from \$2.50 up. Genistas don't sell so well as formerly, and quite a few were left on the dealers' hands. Fine Crimson Rambler roses, well in bloom, brought from \$3 up, and the supply was plentiful. Hyacinths, tulips and narcissus in pots sold at very reasonable prices. Lilies in pots went at about 25c. per bud.

In cut flowers, prices were reasonable and buyers were satisfied. Stock was good and abundant. Everything went well, excepting bulbous flowers, which were hard to sell, both at wholesale and retail. Lilies were in good supply at from \$12 to \$15, wholesale, and \$2 to \$3 per dozen, retail. The growers cleaned these out pretty well, but the retailers had some unsold. There was a light call for callas at 25c. Roses were of good quality; prices, at retail, ran from \$1.50 per dozen and better. Bride and Bridesmaid were principally handled. American Beauty went at from \$3 to about \$9 per dozen, wholesale, for the best. They were in good demand, and cleaned up fairly well.

Carnations were choice and fresh, and in good demand. Prices, at wholesale, were from \$4 to \$6 for average stock. Some of the fancy sorts brought better figures. At retail from \$1 per dozen up was about the price. Very few cheap ones were to be had, and the supply was cleaned up well. Violets were scarce; very little extra good stock was available. Prices were \$2 per bunch of 50 at retail; wholesalers got from \$1.50 to \$2 per 100. Daisies and marguerite went at 75c. per dozen; pansies, 15c. per bunch. A nice lot of antirrhinum brought \$1.50 per dozen spikes and was attractive. Bulbous stock was overdone, a lot of poor flowers was hard to sell at any price. Daffodils did not go so well as usual; from 50c. to 75c. per dozen was the price. Tulips, 75c. per dozen for single and \$1 for double was asked, but a good lot went at lower prices; some doubles as low as 50c. per dozen. Cut hyacinths were not much wanted. Lily of the valley went better at 75c. per dozen.

The stores made big window displays, and all available space inside was crowded with blooming plants and flowers.

The florists were all well prepared with extra help, and were kept on the move continually. The aisles of the market in Allegheny, near the florists' stands, were so jammed with people that it was impossible to get through.

John Bader, the largest plant grower in our vicinity, had a very busy week. His azaleas were in fine shape and sold well. Blind Bros. had a fine lot of plants of various kinds; and W. Lauch also had a fair lot of stock which he displayed and offered for sale in a store room on Diamond street, near his market stand.

The Easter floral displays in the Park conservatories were attended by a great throng of people. The day being nice, everybody was outdoors on Easter Sunday. More people went through the Phipps conservatories in the Pittsburg Park than ever before—about thirty to thirty-five thousand.

The next meeting of the Florists' Club occurs Tuesday, May 2, and will likely be well attended, the members having more time now. E. C. REINEMAN.

BUFFALO.—In extent of good business done the Easter season just past exceeds any past records for this locality. While some stocks naturally were wrongly timed and notably carnation blooms averaged low in quantity, a condition somewhat shared by violets, too—a generally large lot of both plants and blooms of good quality was available. Lilies, particularly in plants, perhaps showed the strongest popularity. The store florists sold these at 25c. per bloom, and all the stock to be had was disposed of. Azaleas went as well, with some white ones slow of demand. Forced bulbs were of excellent quality, a bit plentiful comparatively. Roses in plants, in Ramblers in moderate numbers, and forced hybrids filled all ordinary needs.

Retailers freely pre-empted available near-by vacant stores as annexes for extra supplies. The department stores were patrons of liberal quantities of lilies and also plants forced. One concern of this class opened a flower sale at low advertised prices, but the attempt showed a working management of weak character as regards competition to established conditions of business. VIDL

INDIANAPOLIS.—Every one is satisfied with the Easter trade. The volume of business done was not much, if any, greater than in 1904. The quality and quantity of stock for last week's business surprised every one. Rhododendrons, azaleas, hydrangeas, wistaria, lilacs, and lilies were in fine condition. Plants sold better than ever before. No trouble was experienced in disposing of high-priced specimen plants, such as hydrangeas or rhododendrons. Crimson Rambler roses sold exceptionally well at \$2.50 to \$5 each. Lilies were retailed everywhere at 25c. a flower or bud, and were entirely out of the market by Sunday morning. Pots containing from three to five lily plants, selling at \$3 to \$6, went unusually well. White enameled buckets of lilies, lilacs, azaleas, or Crimson Rambler, tied with a wide ribbon, brought from \$7.50 to \$15.00 each. These proved a popular novelty, as did small toy tubs filled with lily of the valley, forget-me-nots, hyacinths or tulips, which sold at \$1.50 to \$3 each. This white enameled ware is certainly more beautiful than a pot, handier than a pot cover, and much less expensive. Bulbous stock was more plentiful than anticipated. There were enough hyacinths, jonquils, and tulips to meet all requirements. Hampers and baskets, well arranged and tied with suitable ribbon, ranging in price from \$2.50 to \$20, were well cleaned up. Cheaper stock, such as a small azalea, a hyacinth, or a pan of pansies, or flat of tulips, arranged with crepe paper, mounted with a small chicken or duck, selling at 75c. to \$2, was disposed of in large quantities. Owing to the lateness of the season many customers tried to kill two birds with one stone, by buying plants

ST. LOUIS.—We here have nothing to complain of as to business during Easter; it was fully up to last year's trade, when the biggest Easter business was reported. Some of the up-town florists, who were loaded down with fine blooming plants, were somewhat worried early Saturday, but before night everything that was good had been sold. Most of the florists had to work late Saturday night filling cut flower orders for early Sunday delivery. Had the Sunday law placed a ban on the florists, most of us would have been in a bad fix; but, as it was, none of us was molested and the prospects are that we will not be.

In plants, azaleas, hydrangeas, and bulbous stock in pans had a big call; of course, Harrisii and longiflorum lilies were the choice of all buyers. An enormous lot was disposed of. In cut stock the retailers had their troubles, owing to the sudden advance in prices. Plenty of almost everything was to be had in large quantities, excepting long, fancy American Beauty roses. Cut lilies were more than ample for the demand, at \$12.50 to \$15 per 100. Callas were not so plentiful. Other bulbous stock was in plenty, at regular prices.

Carnations went up in price, \$4 and \$5 for fancies and \$3 for common, per 100. There were none too many for the big demand. Nothing less than 75c. per dozen could be bought at retail.

Bride and Bridesmaid roses were fine, the lowest price being 6c. Souvenir du President Carnot, from Bell Miller, Springfield, Ill., sold out clean, being of extra fine quality, bringing from \$6 to \$10 per 100. Meteor and Perles des Jardins were in limited supply. A great deal of

BALTIMORE.—Easter trade was very satisfactory, supply and demand both being good. More sweet peas, lily of the valley, and carnations could have been handled to advantage. Local violets were very scarce and practically no good; a few from the North were seen of good quality, and brought \$3 per 100, retail. Many thousands could have been sold if obtainable. Reports were that lilies would be very scarce. This proved to be an error, as there was a fine lot on hand. The only drawback was that longiflorum had rather short stem. Everything cleaned up at the Exchange except string asparagus, which came in a little too freely.

Only two retailers say they were not ahead of last year; with many this year's trade far exceeded any other Easter. Good cut flowers were in better demand than plants. The best evidence that all sold out is the fact that the Exchange cannot catch up on stock to fill all orders this week. The supply is pretty ample, with the demand a little better. Quite a number of weddings are taking place this week, which use up all good stock nearly as fast as it arrives. Prices have dropped back to where they were before Easter.

The Exchange is in reality a mutual concern between the local growers and dealers, each depending upon the other every day in the year; and for this

than was expected. Almost all kinds of stock cleaned up well, some kinds, especially carnations, being very short by Saturday evening. Prices were perhaps 10 to 15 per cent. lower than last year, but the unusually large volume of business done more than made up the difference. It was noticeable that there was a better supply of good stock in both plants and cut flowers. Carnations, as usual, were far in the lead in popularity, being quoted by some of the stores at 75c. to \$1, and by others at \$1 to \$1.50 per dozen. Roses were in good demand at \$1 to \$2 per dozen. American Beauty were cheaper than ever known here before, and brought \$2 to \$8 per dozen. Tulips went freely at 50c. to 75c., and hyacinths at \$1 to \$1.50 per dozen. Lily of the valley averaged about 75c. to \$1, and violets \$1.50 per 100, sales of the latter being unusually large.

Lilies brought \$2 to \$3 each, with very large and satisfactory sales.

There seemed to be an increased interest taken in plants. Sales of potted tulips and hyacinths were also surprisingly large. A new feature here was fancy baskets filled with cut flowers, assorted, which took well.

CLEVELAND, O.—The largest florists here are unanimous in declaring that the volume of Easter business far exceeded that of previous years. Prices were better and easier; but fewer cut flowers were sold than ever before, potted plants taking lead. Of the latter that sold best were lilies, azaleas, hydrangeas, Rambler roses, and hardy azaleas, a few genistas, spiraeas and the usual number of bulbous flowers in pots and pans.

Prices on cut flowers were: American



A CORNER IN GALVIN'S BACK BAY STORE



MACMULKIN'S WINDOW

EASTER DISPLAYS AT BOSTON, MASS.

which would ornament the home for a time, then be suitable as a shrub or bedding plant. Many bought geraniums or Crimson Rambler roses.

Cut flowers, especially roses, were in good condition, with little, if any, pickled stock in the market. The supply of carnations was short, but the immense amount of field-grown tulips and jonquils supplanted them to a large degree. Carnations retailed at 75c., \$1 and \$1.50 per dozen. Select La France, Souvenir du President Carnot, and Mme. Abel Chateaubriand roses retailed at \$3 to \$4 per dozen. The best Bridesmaid and Bride brought \$2 to \$3; seconds retailed as low as \$1 per dozen. Long-stemmed, select Liberty were in good demand, at \$5 to \$6 per dozen. American Beauty were reasonable in price, and sold well; select 36-inch wholesaled at \$4 to \$5 per dozen and retailed at \$9 per dozen; 24 to 30-inch stems wholesaled at \$2 to \$3, and retailed at \$4 to \$6 per dozen. Short American Beauty were plentiful at \$7.50 per 100.

Violets were a disappointment, as many orders were filled with small violets, which did not come up to the expectations of the customers who think only of Mid-winter quality. Sweet peas were in good demand, but the supply did not meet requirements; long-stemmed ones wholesaled at \$1 to \$1.25 per 100, retailing at 25c. per dozen. Growers who had quantities of field-grown tulips, narcissus and jonquils were lucky, as they sold well, and the profit in them was large at 60c. to 75c. per dozen.

Tomlinson Hall Market florists are well satisfied with Easter business. Until noon Saturday but little stock had been sold. The rush Saturday afternoon exceeded all expectations. I. B.

fine smilax was in the market, at 15c. per string. Other greens in all lines were in plenty, at usual prices.

ST. PATRICK.

CHICAGO.—Easter business, from the standpoint of the wholesaler, was all that was expected. There was a brisk shipping demand, nearly all week. During the fore part of the week some kinds of stock were very scarce; this was, no doubt, due to the fact that growers were holding back their flowers until the latter part of the week. This was a mistake, as Easter prices go into effect the Monday before, and shipping orders have to be filled early. Prices held up to the very last, and no doubt the volume of business done will compare favorably with that of former years.

More plants are being sold by the retailers each succeeding year; prices on these are advancing, and the quality of the stock grown is also improving.

Monday of this week's trade opened up rather slow; consignments were not very heavy; consequently, no great quantity of stock was left over at the end of the day's business. American Beauty are in ample supply at fairly good prices. Bride and Bridesmaid are yet plentiful, especially the poorer grades. The better sorts are now bringing from \$8 to \$10 per 100.

Carnations are in good demand, with a large supply available at 75c. to \$3, according to grade.

Some very good violets are yet seen, mostly all Eastern stock. Lilies are yet in goodly numbers, but there is not much demand at present; they sell at \$6 to \$10. Other bulbous stock is quite ample for the call. Smilax is becoming scarce and bringing higher prices. R. J.

reason enormous prices are not asked at any time because of any extra demand or short supply. It had been expected that there would be a shortage of bulbous stock for Easter; however, there was a fairly good supply, especially of tulips, which sold well; in fact, everything good went. Only a few plants were left over with some stores. Prices ran about the same as in previous years. At 11:30 Saturday night all the stock in Lexington market could have been bought for a \$10 bill, everything having moved so well. The hardest plant to move was white lilac. JOHN J. PERRY.

CINCINNATI.—Easter trade was all that could be wished for; everything sold. American Beauty roses and multiflorum lilies had the lead, but thousands of tulips, narcissi and Von Slon were also disposed of. Green goods went slowly. At the Jabez Elliott Flower Market the rush was so great that it was almost impossible to get into the building. Thousands of plants of all kinds were sold, hydrangeas and lilies taking the lead. Carnations and roses were not plentiful either in cut flowers or plants. To sum it all up, this Easter was equal to any other. Saturday was ideal; the sun shone all day and the temperature stood at 55 degrees.

George & Allan reaped a harvest in the bulb line; they commenced cutting early in the week, and at last accounts were still cutting. Their stock was much better than usual. E. G. G.

COLUMBUS, O.—Local florists entered upon Easter week with some misgivings, but the outcome proved more satisfactory

Beauty, wholesale, \$6 to \$10 per dozen; Bride, Bridesmaid, Meteor, Kaiserin Augusta Victoria, \$4 to \$12 per 100; carnations, \$6 to \$8. Violets were very scarce at \$3 to \$5 per 100.

Gassers' window display, conceived by Mr. Jones, was designed to represent a woodland scene, where the limbs of the trees and vines had intertwined and formed a nook, from which beautiful clusters of purple wistarias hung in rank profusion. Flowers peeped out from the crevices of the rockeries, rustic baskets were scattered here and there, with cage birds in full song, all adding realism to the picture.

The heaths on the market were controlled by Westman & Getz.

O. G.

MILWAUKEE.—Easter business was considerably ahead of that of last year, especially the demand for carnations. There was a good supply of lily plants, which sold well. There was quite a large number of short L. giganteum in the market, and these met with popular favor. Roses were plentiful and the supply was equal to the demand. Violets were almost out of the market, and the quality was inferior, owing to the lateness of the season. Most all of the florists report a satisfactory trade, and nearly everyone cleaned out of all lines of stock that was in good salable shape for Easter. The weather was very favorable for deliveries, and large displays were made outside by the various street men in the business. INCOG.

(Owing to pressure of late advertisements on our columns this week, quite a number of reports on the Easter trade are held over till next week.)



WARENDORFF, 122D ST. AND 7TH AVENUE

 ARCADE FLORIST, BROADWAY AND 65TH STREET ;
SOME EASTER DISPLAYS IN NEW YORK

MACDONALD, MADISON AVE. AND 68TH STREET

New York.

The Week's News.

There has been quite a number of weddings this week, and many of the retailers have been very busy in that line. The cut in the prices of flowers came in just at a time when they could be appreciated.

One of our daily papers, the New York Star, has been making an estimate of the number of flowers used for Easter, and gives out the following figures: Violets, 5,000,000; roses, 400,000; carnations, 1,100,000; lilies, 500,000. What an immense business we would have if those figures were only true. Evidently the reporter for the New York Star met with a veritable Baron Munchausen when he was interviewing the florist who gave him the facts and figures relating to the Easter business.

Bertha Cohn, formerly a florist at 17 East 59th street, has filed a petition in bankruptcy with liabilities of \$3,939 and assets of \$20 in debts due her.

The annual auction sale of orchids from Sander & Sons, St. Albans, England, took place in Cleary's Horticultural Hall, on Tuesday, April 25. There was a good attendance of buyers.

J. H. Small & Sons had one of the best Easter trades they ever experienced. They had one of the finest displays in the city, and their stock of plants was of enormous proportions and of superb quality, yet they had to call for extra supplies in some lines several times on Saturday.

Alex McConnell carried an immense supply of elegant flowering plants and sold out cleaner than ever before.

Wm. Elliott & Sons, seedsmen, Dey street, who contemplated moving into Fulton street on the first of May, have decided to postpone their moving into the new quarters until the first of July.

A. H. Allen, of this city, has gone to Berlin, N. Y., to take a position with Arthur Cowee, the gladiolus grower.

Henry Grebe, a prosperous florist residing at Jamaica, L. I., committed suicide by shooting himself with a revolver on April 21. Grebe was a very heavy smoker and was very nervous at times, but was of a genial disposition, and his friends, of whom he had many, were shocked to hear of his suicide. He had a bright future, as he had money, and his wife, who was a daughter of the late Henry Krick, of Brooklyn, recently received a legacy of \$30,000 as her share in her father's estate. He leaves a widow and two young children.

Clucas & Boddington Company, who for several years have been located at 812 Greenwich street, will move on May 1 to 131 West Twenty-third street, near Sixth avenue. This firm is doing a much larger retail business than heretofore, and the old location not being so well adapted for that class of trade, a move to the shopping district was necessary. A long lease has been secured at the new premises, and the firm is to be congratulated on its advance into the centre of the shopping district, where its transient trade is sure to be largely developed.

After Easter.

Business has gradually increased in volume as the week has advanced,

though, of course, prices are down to their usual Spring status. There was so much stock on hand Monday morning, and prices had weakened so materially through Saturday night and Sunday previous, that a general slaughter was inevitable, as the surplus had to be moved some way or other. American Beauty roses were the greatest sufferers, and many hundreds of special grades of this variety were cleared out at \$6 per 100. The top grades of tea roses were also offered at the same price, and it was considered a good sale whenever a few hundreds were moved at that figure.

When, after Easter was over, and we could get an approximate idea of the number of American Beauty that reached the city on Saturday, we were not at all surprised at the falling to pieces of the market. On a rough estimate there were at least four times more Beauty available this Easter than ever before, and the same remark applies to Bride and Bridesmaid. It would seem that, given a late Easter, an abundance of roses is sure to be on hand. Of this fact the most of the retailers were perfectly aware, and the high prices talked of a few days previous to Easter Saturday, made the retailers refrain from placing orders, they knowing that there would be plenty of stock on hand to supply all demands. In conversing with a prominent retailer this week he assured us that he would have been glad to have placed orders for American Beauty at 30c., and would have used a great many more than he did. The cut in price that came on Saturday night was too late to help the retailer, in a great measure, as he had been pushing plants for all they were worth on account of the roses being held at such a high figure.

As we said before, business increased in volume as the week progressed. The supply of stock seems to have kept up; there has been no shortage of anything but lily of the valley. This flower, on account of being so much in demand for bridal bouquets, has jumped to \$3 and \$4 per 100, with an occasional special lot at \$5.

The supply of violets has shortened

up greatly, and they were bringing, the latter part of the week, from 50c. to \$1 per 100, according to quality. And there does not seem to be enough to supply the demand.

Plenty of lilies are still reaching the city; the top price for these is \$6 per 100, poorer grades going as low as 4c. each.

Carnations are coming in quite plentifully, and, considering the time of the year, are averaging fairly well.

American Beauty roses, the latter part of the week, got to 20c. each, for specials, No. 1 going at about 8c. The supply still equals the demand, though we may expect at any time now a shortage in these roses. Liberty are quite difficult to dispose of, many of the best grades going at 10c. Bride and Bridesmaid have settled down at \$6 per 100 for the best, 2c. and 3c. each for No. 1, and 75c. to \$1 per 100 for No. 2 grade.

Tulips are very plentiful, and are bringing anywhere from 50c., for the single varieties, up to \$2 per 100 for the better grades. Single narcissus is also selling as low as 50c. per 100, and there is a big stock in the market. Sweet peas are going fairly well; white ones were in good demand one day and cleaned out entirely. The supply of orchids is increasing every day; the larger blooms of cattleyas are now in constant supply, and bring from 50c. to 75c. each.

Gardenias have sold better within the last few days than for some time, reaching as high as \$3 per dozen occasionally. Antirrhinum is a little in over-supply, but has been bringing 10c. and 12c. per spike. There is a steady supply of gladiolus, and some of the best has realized as high as \$2 per dozen. The price of smilax continues to hold up, as also does that of Asparagus plumosus in bunches.

WAYNESBORO, PA.—Henry Eichholz writes: Trade was fully 25 per cent. better than last Easter. The weather was ideal. Carnations were favorites in cut flowers; lilies, hyacinths, tulips, Rambler roses; in fact, everything that had a blossom sold.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

LE MARS, IA.—L. R. Wasmer has opened a florists' store here.

CHILLICOTHE, O.—Walter Butler has opened a branch store on Paint street.

COLUMBUS, O.—Mrs. E. M. Krauss has removed from 183 to 209 South High street.

GIBSONBURG, O.—Joseph L. Wetzel & Son, of Fremont, O., have opened a branch store here.

HACKENSACK, N. J.—The New York Flower Store opened its new stand at 215 Main street on April 20.

SHEBOYGAN FALLS, WIS.—J. E. Mathewson will move his place of business to 625 North Eighth street.

CORTLAND, N. Y.—A. E. Ryan and Claude V. Hike have bought out the Hopkins greenhouses at Cortland.

FARGO, N. D.—The Pratt Greenhouse Company of Anoka, has opened a branch in this city, with Mrs. S. J. Hill in charge.

NORWALK, O.—C. E. Barton has leased store room at 12 Whittlesey avenue, where he will continue the flower business.

SALIDA, CAL.—J. H. Freeman, formerly of Howard, has purchased the Salida Greenhouses on E street, and will continue to operate them.

ALBION, N. Y.—The firm of Newman & Gatz, who built the new greenhouses on Brown street, has been dissolved. Mr. Newman retiring. Valentine Gatz is now the sole proprietor.

AITKIN, MINN.—A. Clarine has bought ground here on which he will erect greenhouses and engage in the florist business. The Clarine Brothers have extensive greenhouses at Faribault, where they are doing a satisfactory trade.

GRAND FORKS, N. D.—Andrew Peterson, who has had charge of the Grand Forks Nursery for several years, has leased land on the southeast corner of the Hunter farm, where he will conduct a nursery business.

SHELBYVILLE, IND.—Charles Warner, of Smithland, has purchased five greenhouses formerly owned by the Law Floral gardens of Shelbyville. Mr. Warner will move the houses to his place and use them for the purpose of raising lettuce.

We can't do much with a
"JUST WON'T" grower

who knows that all tobacco powder is the same cigar and tobacco store trash he gets at his cigar store or from his seedsmen and JUST WON'T ask for our booklet, that is full of the sayings of his fellows, that read:

The H. A. S. Co.—I consider the FUMIGATING KIND TOBACCO POWDER; perfection for what it is intended; my houses were badly infested and since the two fumigations, they are entirely clear.

J. W. SHEARER, Winchester, Ky.

He JUST WON'T believe that 95 per cent. of all the growers that send for our free five-pound trial sample bags of THE FUMIGATING KIND (for fumigating) and THE BLACK STUFF FINE (for sprinkling), have purchased not once, but again and again, after the trial. WHY BE A JUST WON'T when you can have these free five-pound trial sample bags; yes, two of them if one won't do. All we ask is for you to pay the express charge on them. Ask now. Don't be a "JUST WON'T."

THE H. A. STOOHOFF CO., Tobacco Powder Hobbyists, 116 WEST STREET, NEW YORK, N. Y.

The H. A. S. Co.—The BLACK STUFF FINE is used on m. place and I cheerfully state that it gives entire satisfaction without injuring the plants.

EMIL LEVLY, West Hoboken, N. J.

CHRYSANTHEMUMS

Ready from Soil.
All Good Stock,
in Fine Condition

White	Per 100	White	Per 100	Pink	Per 100	Yellow	Per 100	Yellow	Per 100
Kalb.....	2.00	White Mayflower.....	\$2.00	Gobbolt, new.....	\$3.00	Monrovia.....	\$2.00	Wm. Thirkell, new.....	\$3.00
Robinson.....	2.00	Ivory.....	2.00	J. A. Balfour, new.....	3.00	Yellow Eaton.....	2.50	W. T. Pickett, new.....	3.00
Polly Rose.....	2.00	Jerome Jones.....	2.00	Marie Liger.....	2.00	Major Bonnaffon.....	2.00	Kimberly, new.....	3.00
Wanamaker.....	2.00	Pink		Col. D. Appleton.....	2.00	Col. H. S. Vallis, new.....	2.00	H. S. Vallis, new.....	3.00
Eaton.....	2.50	Duckham.....	3.00	Richardson.....	2.00	Omega.....	2.00	Omega.....	2.00
White Bonnaffon.....	2.00	Pacific.....	2.00	Murdoch.....	2.00				
Snow Queen.....	2.00	Pink Ivory.....	2.00	Mourner.....	2.00				
Harry Plumridge, new.....	3.00	M. Newall.....	2.00	Vivland-Morel.....	2.00				
		J. K. Shaw.....	2.00	Yellow-October Sunshine.....	2.00				

Write for Prices on Chrysanthemums in Larger Quantities

CARNATIONS

PINK.	100	1000
Mrs. T. W. Lawson.....	\$1 50	\$12 50
Guardian Angel.....	1 00	9 00
LIGHT PINK.		
Euchantress.....	3 00	25 00
Morning Glory.....	1 50	12 50
Mrs. Higinbotham.....	1 25	10 00

RED.	100	1000
Estelle.....	2 50	20 00
Chicago.....	2 00	15 00
WHITE.		
Flora Hill.....	1 00	9 00
White Cloud.....	1 25	10 00
CRIMSON.		
Harlowarden.....	2 00	15 00

ROSES

Bride.....	Per 100	1000
Bridesmaid.....	\$3.00	\$25.00
Meteor.....	4.00	30.00

Young Stock, ready to ship, out of 2 1/2 in. pots. Fine, Healthy Stock

Golden Gate.....	Per 100.	1000
Mme. Abel Chatenay.....	3.00	25.00
Kaiserin.....	4.00	35.00

WIETOR BROS., 51-53 Wabash Avenue, CHICAGO, ILL.

Mention the Florists' Exchange when writing.

ROSES Hybrid Teas, H. Perpetuals, etc., both Dwarf and Standard.
EVERGREENS, Finest Kinds.
FRUIT and ORNAMENTALS. Select stock of Maples, Lindens, etc.
S. G. HARRIS, Tarrytown, N. Y.

Mention the Florists' Exchange when writing.

Grafted Roses

Bridesmaid, Bride, Bon Silena and Safrano. \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbolt, \$2.50 per 100. STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses NEWTONVILLE MASS.

Mention the Florists' Exchange when writing.

Chrysanthemum Novelties

Mersham Yellow, White Coombes, Emily Milham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Duckham, the cup winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

OUR SPECIALTY

Both NOVELTIES and STANDARD VARIETIES

We have an immense stock now ready for planting. Send us a list of your wants for prices.

NATHAN SMITH & SON, - Adrian, Mich.
Mention the Florists' Exchange when writing.

20,000 CHRYSANTHEMUMS

As tender as a spring chicken. Finest stock in the country. Plants standard size. Samples free on application. Prices on application. Tell us what you want. Prices lowest.

HENRY EICHHOLZ, WAYNESBORO, PA.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings from cool grown stock of the following varieties

AMERICAN BEAUTY, globular, dark pink; **Wm. DUCKHAM, DR. ENGUEHARD,** \$4.00 per 100.

PERRY MONARCH, white and yellow; **WILLOWBROOK, POLLY ROSE, PACIFIC, R. HALLIDAY, IVORY, ROBINSON, NELLIE POCKETT, BONNAPFON, YELLOW EATON, LINCOLN, MAUD DEAN, MERRY CHRISTMAS,** \$1.50 per 100; \$12.50 per 1000.

Cash with order, please.

G. F. NEIPP, Jamaica P. O. Woodhaven Station Aqueduct, L. I., N. Y.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

ROOTED CUTTINGS

Lord Hopetoun, Ben Wells, Lella Filkins, E. Bonnefond, Cecil Outts, Vivland-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Nellie Pickett, Percy Plumridge, A. J. Balfour, M. Lamond, Thirkell, White Bonnaffon, Mrs. Chamberlain, C. H. Diederichs, Dr. Enguehard, Cheltoni, Ida Barwood, S. T. Wright, Chevart, \$3.00 per 100.	Bonnaffon, Mrs. Jerome Jones, Yellow Jones, Col. Appleton, Mrs. Robinson, Lady Harriett, Halliday, F. S. Vallis, Mrs. Coombes, Olnna, Mrs. T. M. Pickett, Marie Liger, M. Donillet, Paul Sahut, R. H. Pearson, Dalekov, Ivory, Bogaese, M. Richardson, Tauredet Bastet, Fee Du Champsaur, Mrs. Perrin, Mrs. Weeks, Col. Powell, Mayflower, O. J. Salter, White Maud Dean, Golden Wedding, Marian Newall, Mounier, \$2.00 per 100.
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CARNATIONS, ROOTED CUTTINGS.

The Belle..... \$4.00	1000 \$50.00	Mrs. Patten.....	\$3.00	1000 \$50.00	
Flamingo.....	6.00	50.00	Euchantress.....	3.00	25.00
Nelson Fisher.....	6.00	60.00	Boston Merk't.....	2.50	20.00
Lawsen.....	1.50	12.50			
PERNS -Boston Ferns, 2 1/2 in., \$4.00 per 100; 6 in., \$40.00; 7 in., \$30.00.					
PIERSONI -3 in., 10c.; 4 in., 20c.; 5 in., 40c.; 6 in., 60c.; 7 in., \$1.00. Cash or O. O. D.					

W. J. & M. S. VESEY, Fort Wayne, Ind.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

ROOTED CUTTINGS

It is cheaper to buy rooted cuttings now than pot plants next month.			
Per 100	Per 1000		
Wm. Duckham.....	\$3.00	Miss Alice Byron.....	\$2.00
Black Hawk.....	1.50	Nellie Pickett.....	2.00
Appleton.....	1.50	Mrs. Coombes.....	1.75
Orlando.....	1.50	Mrs. H. Robinson.....	1.75
Dazzler.....	2.00	Mutual Friend.....	1.75
Glory of Pacific.....	1.50	October Sunshine.....	1.50
Lady Fitzwygram.....	1.50	Polly Rose.....	1.75
Bonnaffon.....	1.50	Timothy Eaton.....	1.75
Maud Dean.....	1.75	White Bonnaffon.....	1.50

CARNATIONS

ROOTED CUTTINGS

Prosperity.....	100	1000
Lawsen.....	\$2.00	\$15.00
Maeco.....	2.00	15.00
Queen Louise.....	1.50	15.00
Gov. Wolcott.....	1.50	15.00
May Naylor.....	1.50	15.00
Joest.....	1.25	
Eldorado.....	1.25	
Bread.....	2.00	20.00
Enchantress.....	3.50	35.00
Scott.....	1.25	

GRAFTED BRIDE and BRIDESMAID ROSES

EDW. J. TAYLOR, SOUTHPORT, CT.
Mention the Florists' Exchange when writing.

Grafted ROSE Plants

ON English stock, in 2 1/2 in. pots. Bride, Bridesmaid, Golden Gate, \$10.00 per 1000. Liberty, \$12.00 per 100; 3 in. pots, \$15.00 per 100.

OWN ROOT STOCK

Bride, Bridesmaid, Golden Gate, in 3 in. pots, \$35.00 per 1000. All in good condition. Write for sample. Baby Kamblers, grafted, in 5 in. pots; in bud and bloom, \$5.00 per doz; 2 1/2 in. stock, grafted, \$20.00 per 100.

CHRYSANTHEMUMS

Dr. Enguehard, Mrs. T. W. Pickett, Cheltoni, Mrs. O. J. Salter. Transplanted cuttings from soil, \$5.00 per 100. Rooted cuttings from sand, 4.00 per 100.

Wm. Duckham, Alce Byron, Goldmine, Carrington, Yellow Jones, Yellow Eaton, A. J. Balfour, Merry Christmas, W. Bonnaffon. Transplanted cuttings from soil, \$4.00 per 100. Rooted cuttings from sand, 3.00 per 100.

CARNATION CUTTINGS

Queen Louise, F. Jonst, Challenger, \$1.50 per 100, \$12.00 per 1000; The Queen, Boston Market, Mrs. T. W. Lawson, Prosperity, Fair Maid, \$2.00 per 100, \$15.00 per 1000; Harry Fern, Harlowarden, \$2.50 per 100, \$20.00 per 1000; Enchantress, \$3.00 per 100, \$25.00 per 1000; Mrs. Patten, \$5.00 per 100, \$45.00 per 1000. 250 at 1000 rate.

ROOTED COLEUS CUTTINGS

Golden Bedder, Firebrand, Verschaffeltii and mixed colors, 75c. per 100, \$6.00 per 1000.

JAMES E. BEACH, 2019 Park Avenue, BRIDGEPORT, CONN.
Mention the Florists' Exchange when writing.

Major Bonnaffon

Rooted cuttings, in good condition, \$2.00 per 100; \$15.00 per 1000. Cash.

J. H. FIESSER 415 SUMMIT AVE., WEST HOBOKEN, N. J.
Mention the Florists' Exchange when writing.

Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

BEST COMMERCIAL VARIETIES Per 100
Strong Plants, 2 1/2 in. \$2 00
Vinea Var., R. O., 3 1/2 in. 2 50
Violet, Princess Wales, R. O. 1 00
Carnation, R. O. \$1.50 to 3 00
Write for List at once.

SMITH & GANNETT, Geneva, N. Y.
Mention the Florists' Exchange when writing.

ROSES

From 2 1/2 in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000.
Cinchilde Souper, best bedding and pot rose. Pink Branau Cochet, fine for Summer blooming. White Nannu Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Grower, Springfield, Ohio
Mention the Florists' Exchange when writing.

200,000 Bedding Plants

First Class Stock that will please
Geraniums, Nutt, Ricard, Double Gen. Grant, Buchner and Poltevine, strong 4 in., in bud and bloom, \$5.00 per 100.

Verbenas, in bud and bloom; Salvia Splendens and Bonfire; Petunia, fringed; Ageratum, blue; Lobelia, Alternanthera, and Coleus, red, yellow, and fancy mixed; all strong 2 to 2 1/2 in., \$1.50 per doz. Verbenas Petunias, and Salvias, strong 3 in., \$2.50 per 100. Mme. Sallier Geranium, in bud and bloom, strong 4 in., \$3.00 per 100; Hegunia, Vernon, strong 2 in., \$2.00 per 100; Dracena Indivisa, strong 6 in., \$1.50 per doz. Cannas in variety, strong 4 in., \$5.00; mixed, 3 in., \$3.50 per 100. English Ivy, strong 4 in., \$8.00 per 100. Vinea Variegata, 4 to 8 in., strong vines, \$7.00 per 100. CASH.

WM. HERZOC, Morris Plains, N. J.
Mention the Florists' Exchange when writing.

Dreer's Select List of HARDY PERENNIALS

We offer here only the most **Showy and Decorative Sorts**, including varieties suited for **CUT FLOWER** purposes. These varieties are marked with an asterisk (*).

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List.

This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

		Per doz.	Per 100			Per doz.	Per 100			Per doz.	Per 100	
Acanthus Mollis, 4-in. pots.....	\$1.25	\$10.00			*Helianthus Davidsona.....	.75	6.00			*Pinks, Hardy, in variety; 4-in. pots	.75	6.00
Latifolius, 4-in. pots.....	1.25	10.00			*Mollia.....	.75	6.00			*Platyodon Mariesi, Two-year-roots	.75	6.00
*Achillea Filipendulina, 4-in. pots.....	.75	6.00			*Multiflorus B. pl.....	.75	6.00			*Grandiflora, Blue and White, two-year-roots	.75	6.00
Millefolium Roseum, 3-in. pots.....	.75	6.00			*Maximus.....	.75	6.00					
*The Pearl, 3-in. pots.....	.75	5.00			*Maximiliana.....	.75	6.00					
Aconitum Fischerii, Strong.....	1.50	12.00			*Meteor.....	.75	6.00					
Autumnale, Strong.....	1.25	10.00			*Misa Mellish.....	.75	6.00					
Adonis Pyrenaica, Strong.....	1.25	10.00			*Rigidus.....	.75	6.00					
Vernalis, Strong.....	1.00	8.00			*Solei d'Or.....	.75	6.00					
Agrostemma Coronaria, 4-in. pots.....	.75	6.00			*Tomentosum.....	.75	6.00					
Floes Jovis, 3-in. pots.....	.75	6.00			*Wolley Dodd.....	1.00	8.00					
*Anthericum Liliastrum, Strong.....	.75	5.00			*Heliopsis Semi-Plena, New.....	1.50	10.00					
*Lillielo, Strong.....	.75	5.00			*Scaber Major, 4-in. pots.....	1.00	8.00					
Ajuga Reptans Variegata, 3-in. pots.....	1.25	10.00			Heimerocallis Dumortieri, 4-in. pots.....	.75	6.00					
Genevensis, 3-in. pots.....	1.00	8.00			Fulva, 4-in. pots.....	.75	6.00					
*Alyssum Saxatile Compacta, 3-in. pots.....	.75	6.00			Flava, 4-in. pots.....	.75	6.00					
*Flora Plena, 4-in. pots.....	2.50	18.00			Kwaeso B. pl, 5-in. pots.....	1.00	8.00					
*Anemone Japonica, A fine stock, not of the usual winter killed sort frequently sent out, but vigorous growing plants from 3-in. pots.....					Middendorfi, 4-in. pots.....	1.00	8.00					
*Anemone Japonica, Semi-double, rosy carmine.....	.75	6.00			Thunbergii, 4-in. pots.....	1.00	8.00					
*Alba, Large, pure white.....	.75	6.00			Aurantiaca, 5-in. pots.....	3.50						
*Elegantissima, New semi-double edging astring rose.....	1.25	10.00			Major, 5-in. pots.....	3.50						
*Lady Ardilaun, Large single white.....	.75	6.00			Florham, 5-in. pots.....	3.50						
*Prince Henry, New double, deep pink.....	2.00	15.00			Hesperis Matronalis, 4-in. pots.....	.75	6.00					
*Queen Charlotte, Semi-double La France pink, the finest of all.....	.75	6.00			Heuchera Alba, 3-in. pots.....	1.00	8.00					
*Rosea Superba, Silvery rose; new.....	1.00	8.00			Hibiscus Militar. Strong, two-year	.75	6.00					
*Whirlwind, Grand double white.....	.75	6.00			Moscheutos, Strong, two-year.....	.75	6.00					
Anemone Pennsylvania, 3-in. pots.....	.75	6.00			Crimsom Eya, Strong, two year.....	.75	6.00					
Aquilegia Blanda, Caryophyllodes, Chrysantha, Chrysantha Alba, Californian Hybrids, Grandiflora Major, Nivea Grandiflora, Skinneri and Vulgaris, Flore Plena Strong; 4 in. pots.....	.75	6.00			*Hollyhocks, Double, one-year-old, to color.....	1.25	10.00					
Cerulea 3-in. pots.....	.75	6.00			*Double, one-year-old, mixture.....	1.00	8.00					
*Arabis Alpina, 3-in. pots.....	.75	6.00			Single, one-year-old, mixture.....	1.00	8.00					
*Flora Plena, 3-in. pots.....	.75	6.00			Allegheny, one-year-old, mixture.....	1.00	8.00					
Armeria Maritima Alba, 3-in. pots.....	.75	6.00			*Hypericum Moserianum, 3-in. pots.....	1.00	8.00					
Spandens, 3-in. pots.....	.75	6.00			*Iberis Corraefolia, 3-in. pots.....	1.25	10.00					
Artemisia Abrotanum, 4-in. pots.....	.75	6.00			*Sempervivans, 3-in. pots.....	.75	6.00					
Puriana, 4-in. pots.....	.75	6.00			*Fl. pl. 3-in. pots.....	1.25	10.00					
Stallariana, 3-in. pots.....	.75	6.00			Incarvillea Delavayi, Heavy, 3-year.....	1.50	12.00					
*Asclepias Tuberosa, Strong one-year-old roots.....	.75	6.00			Impatiens Britannica, 4-in. pots.....	.75	6.00					
*Asters, Hardy Alpine varieties, 3-in. pots.....	.75	6.00			Floribunda, 3-in. pots.....	1.00	8.00					
*Asters, Hardy Michaelmas varieties as under, 3-in. pots.....	1.00	8.00			Grandiflora Grandiflora, 2-in. pots.....	1.00	8.00					
Amallus Bessarabicus, Lilac blue, 12-in. Elegans, Large light blue flowers, 18-in. Amethystina, Amethyst blue, 3 ft. F. W. Burbridge, Bright, rosy lilac of large size, 3 1/2 ft. Leyla, Light blue, September and October. Longifolia Formosissima, Deep lilac, shaded purple, 4 ft. Mad. Soynouse, Bright, rosy lilac, 15-in. Mrs. F. W. Raynor, Light purplish crimson, 3 ft. Rosea, Bright rose colored, 4 ft. Farmicoides, White. Useful for cutting, 18-in.					Oculus Christi, 4-in. pots.....	1.00	8.00					
Robert Parker, Large, lavender blue, 4 ft. Snowflake, Pure white, of small size, but freely produced. St. Brigid, White tinted with bluish, 4 ft. Thos. S. Wars, Large, light rosy lilac, 3 1/2 ft. Top Sawyer, Delicate soft blue, 4 ft. White Queen, Large, broad petaled, white, 3 1/2 ft.					*Japanese Iris, 24 choice named varieties.....	1.50	10.00					
					*Choice mixed.....	1.00	8.00					
					*Iris Germanica, 12 finest named.....	.75	6.00					
					*Choice mixed.....	.50	4.00					
					*Sibirica Orientalis.....	1.00	8.00					
					*Pseudo Acorus.....	1.00	8.00					
					*Lychnis Chalcedonica, 3-in. pots.....	.75	6.00					
					*Alba, 3-in. pots.....	.75	6.00					
					*Carnea, 3-in. pots.....	.75	6.00					
					*Fl. pl. 3-in. pots.....	2.00	15.00					
					Haageana, 3-in. pots.....	.75	6.00					
					Dibia Rosa, 3-in. pots.....	.75	6.00					
					Semperflorens Flensalica, 3-in. pots.....	1.25	10.00					
					*Viscaria Splendens, 4-in. pots.....	1.00	8.00					
					*Lythimachia Chalcidiflora, 4-in. pots.....	.75	6.00					
					*Lithrum Roseum Superbum, 3-in. pots.....	.75	6.00					
					Mertensia Virginica, 4-in. pots.....	1.00	8.00					
					Monarda Didyma, 3-in. pots.....	.75	6.00					
					Rosa, 3-in. pots.....	.75	6.00					
					Splendens, 3-in. pots.....	.75	6.00					
					Fistulosa Alba, 3-in. pots.....	.75	6.00					
					*Myosotis Palustris Semperflorens, 3-in. pots.....	.60	4.00					
					*Alpestris Grandiflora, Clumps.....	.60	4.00					
					Nienothergia Rivularis, 8-in. pots.....	1.00	8.00					
					Oenothera Caespitosa, 8-in. pots.....	.75	6.00					
					Frutescens, 3-in. pots.....	.75	6.00					
					Fraseri, 3-in. pots.....	.75	6.00					
					Misourianensis, 3-in. pots.....	.75	6.00					
					Pilgrim, 3-in. pots.....	.75	6.00					
					Speciosus, 3-in. pots.....	.75	6.00					
					Youngi, 3-in. pots.....	.75	6.00					
					*Paeonias. See our trade list for varieties.....	1.50	12.00					
					*See our trade list for varieties.....	2.00	15.00					
					Papaver Oriental. 4-in. pots.....	.75	6.00					
					Nudicaule, 4-in. pots.....	.75	6.00					
					Fardenthus Sinesis, 4-in. pots.....	.75	6.00					
					*Panstemon Barbatus Torreyi, 4-in. pots.....	1.00	8.00					
					*Diffusa, 4-in. pots.....	1.00	8.00					
					*Digitalis, 4-in. pots.....	1.00	8.00					
					*Gentianoides, 3-in. pots.....	1.00	8.00					
					*Heterophyllus, 4-in. pots.....	1.00	8.00					
					*Ovatus, 4-in. pots.....	1.00	8.00					
					*Pubescens, 4-in. pots.....	1.00	8.00					
					*Smalli, 4-in. pots.....	1.00	8.00					
					*Physostegia Virginica, 4-in. pots.....	.75	6.00					
					*Alba, 4-in. pots.....	.75	6.00					
					*Denticulata, 4-in. pots.....	.75	6.00					
					*Phlox. See our list for varieties.....	75	6.00					
					Phlox Subulata (Moss Pink). All colors.....	.75	6.00					
*Aster Grandiflorus. Scarce; large flowering.....	2.00	16.00										
*Edna Mercia, New, pluk-flowering.....	2.00	15.00										
Baptisia Australis, Strong clumps.....	1.00	8.00										
Tinctoria, Strong clumps.....	1.00	8.00										
Bononica Cordata, Strong roots.....	.75	6.00										
*Bolonia Asteroides, 4-in. pots.....	.75	6.00										
*Latiqama, 4-in. pots.....	.75	6.00										

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AFTER EASTER BARGAINS

After Easter, all florists need to replenish their stock. We here offer some exceptionally fine bargains. If you cannot take care of your needs now, you had better place your order and have us hold same for you until you can use the plants. In this way you are sure of having your stock secured when you need it, and avoid the usual disappointment of "stock sold" when you order same.

	Size pots.	Per doz.	Per 100
Asparagus Plumosus Nanus, \$20.00 per 1000	2 in.	\$0 50	\$2 25
Asparagus Sprenger, \$15.00 per 1000	2 in.	40	1 75
Abutilons, 6 best sorts, all colors	2 in.	40	2 50
Ageratum, best sorts, blue and white	2 in.	30	2 00
Ampelopsis Veltchil	2 in.	50	3 00
Antigonon Leptopus	2 in.	50	3 00
Anemone, Queen Charlotte and Whirlwind	2 in.	50	3 00
Aloysia Citriflora or Lemon Verbena, \$20.00 per 1000	2 in.	35	2 50
Araucaria Excelsa or Norfolk Island Pine, 2 to 4 tiers, fine; \$5c. each.	2 in.	9 00	
Alyssum, Giant flowered	2 in.	30	2 00
Alternantheras, 2 sorts, red and yellow, \$18.00 per 1000	2 in.	30	2 00
Acalypha Sanderi, \$25.00 per 1000	2 in.	50	3 00
Acalypha Marginata, \$20.00 per 1000	2 in.	40	2 50
Altheas or Rose of Sharon, fine plants, 5 colors		50	3 50
Begonias, 10 best flowering sorts, \$20.00 per 1000	2 in.	40	2 50
Clematis Paniculata	2 in.	50	3 00
The large flowering, strong, 2 year, pot-grown plants, best sorts, including Jackmanni—30c. each.		3 00	20 00
Cestrum, or Night Blooming Jasmine	2 in.	40	2 50
Cyperus Alternifolius, Umbrella Plant	2 in.	40	2 50
Caryopteris, or Blue Spiraea, hardy	2 in.	50	2 50
Cyclamen Persicum Giganteum, \$25 per 1000	2 in.	50	3 00
Coleus in 20 best bedding sorts, \$15.00 per 1000	2 in.	30	2 00

Cannas—All our Cannas are plants from pots, ready to grow right off, and are much superior to dormant eyes; Austria, Alemannia, Alsace, A. Bouvier, Chas Henderson, Duke of Marlboro, Egandale, Florence Vaughan, Italia, Mme Crozy, Mlle. Berat, Queen Charlotte and Souv. d'Antoine Crozy, and many others

Coleus, Christmas Gem, new..... 2 in. 50 3 00
Crotens, 20 leading sorts..... 2 in. 50 3 00

Daisies, Marguerites, both yellow and white, the very best varieties, \$17.50 per 1000..... 40 2 00
Daisy, Shasta..... 50 3 00
Dahlias, dormant, field-grown roots, 12 leading colors..... 75 5 00
Dicentra Spectabilis, Bleeding Heart Fern, Neph. Bostoniensis..... 2 in. 50 3 00
Feverfew, double white, \$17.50 per 1000..... 2 in. 30 2 00

Fuchsias. We have a fine stock of all the best white and double purple and all shades of single..... 40 2 50

Geraniums—Double and single flowered in forty best varieties..... 2 1/2 in. 50 3 00
 E. H. Trego, new double scarlet bedder..... 50 3 50
 Ivy-leaved in six best sorts..... 50 3 00
 Scented in 6 best sorts..... 50 2 50
 Mountain of Snow..... 2 in. 50 3 00

Gladioli in best mixtures, \$9.00 per 1000..... 40 1 00
 Good and Reese International Mixture, \$15.00 per 1000..... 50 2 00

Helianthus, hardy dwarf Sunflower in two sorts, Multiflorus double and Rigidus, single..... 2 in. 30 2 00

	Size pots.	Per doz.	Per 100
Honeysuckle, Hall's Japan Chinese Evergreen, Scarlet Trumpet and Golden-leaved, \$22.50 per 1000	2 in.	40	2 50
Hibiscus, 10 leading sorts, double and single, \$25.00 per 1000	2 in.	40	3 00
Jasmine, Grand Duke..... 2 in. 50 4 00 Grandiflora, Poetica and Revolutum..... 2 in. 40 2 50 Maid of Orleans..... 2 in. 50 3 00			
Justicia Plumbea Plant..... 2 in. 50 3 00			
Lemon Ponderosa, the greatest of all plants for florists; blooms and bears enormous size fruit; easily handled, \$25.00 per 1000..... 2 in. 50 3 00 15 inches high..... 3 in. 1 00 8 00 20 inches high..... 4 in. 1 50 12 00 26 inches high..... 6 in. 5 00			
Lantana, Weeping; fine for baskets and vases, \$20.00 per 1000..... 2 in. 30 2 50			
Laurestinus, fine plants..... 2 in. 50 3 00			
Matrimony Vine, hardy..... 2 in. 40 2 50			
Pittosporum Tobira, fine plants..... 2 1/2 in. 75 6 00			
Primula Forbesii, Baby Primrose..... 2 in. 50 2 50			
Rudbeckia, or Golden Glow, \$20.00 per 1000..... 2 in. 40 2 50			
Rhododendron, 2 feet high, \$5 cents each..... 2 in. 9 00			
Russellias, 5 sorts..... 2 in. 40 2 50			
Rhynchospermum Jasminoides, \$25.00 per 1000..... 2 in. 40 3 00			
Salvias, 6 best sorts, \$20.00 per 1000..... 2 in. 40 2 50			
Saxifraga Sarmantosa..... 2 in. 50 3 00			
Solanum Azureum, Blue Solanum..... 2 in. 50 3 00			
Swinsona, 2 sorts, white and pink..... 2 in. 50 3 00			
Sansevera Zeylanica, \$20.00 per 1000..... 2 in. 40 2 50			
Smilax, \$18.00 per 1000..... 2 in. 30 2 00			
Stapelia or Star Flower..... 2 in. 40 2 50			
Vinca Major var., \$20.00 per 1000..... 2 in. 40 2 50 4 in. 75 6 00			

CLEARANCE SALE OF ROSES

- Bridesmaid
- Baltimore Belle
- Catherine Mermet
- Champion of the World
- Clothilde Soupert
- Cornelia Cook
- Climbing Meteor
- Climbing Wootton
- Climbing Bridesmaid
- Climbing Marie Guillot
- Duchesse de Erahant
- Duchess of Albany
- Evergreen Gem
- Etoile de Lyon
- Fortunes Double Yellow
- Golden Chain
- Gardenia
- Gruss an Teplitz
- Golden Gate
- Helen Gould
- Helen Gambier
- Hermosa
- James Sprunt
- Jersey Beauty
- Kaiserin A. Victoria
- Lady Battersea
- La France
- La Paetole
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- Mme. de Watteville
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Last call to get healthy, clean Rose stock. We would advise intending purchasers to order now. Don't delay unless you expect to be disappointed by the usual "Stock Sold, unable to supply." We are headquarters for Roses. The following choice varieties from 2 1/2 inch pots at 50 cts. per dozen; \$2.50 per 100.

- Mme. Lambert
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- Mary Washington
- Marechal Niel
- Manda's Triumph
- Microphyla Alba
- Marie Guillot
- Maman Cochet
- Marie Van Houtte
- Meteor
- Mrs. Robt. Garrett
- Paquerotte
- Perle D'Or
- Pink Rambler
- Prairie Queen
- Souv. de Wootton
- Queen Scarlet
- Souv. du Pres. Carnot
- Sylph
- South Orange Perfection
- Universal Favorite
- The Bride
- The Queen
- Viscountess Folkestone
- White Maman Cochet
- White Rambler
- Wichuralana
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The Following are at 50c. per dozen; \$3.00 per 100

- Ball of Snow
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 - Giant of Battles
 - Gainsborough
 - John Hopper
 - La Reine
 - Mme. Caroline Testout
 - Mme. Alfred de Rougemont
 - Mme. Masson
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 - Yellow Cochet
- Baby Rambler, fine 2 1/2 in. pots, \$3.00 per dozen; \$20.00 per 100.

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Rose pots, \$10.00 per 100; \$95.00 per 1000
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500,000 VERBENAS 60 Varieties

Perfectly healthy, in bud and bloom

2 1/2 in. pots, our selection, \$2.50 per 100; \$20.00 per 1000
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Rooted Cuttings, 75c. per 100; \$6.00 per 1000

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- 1000 Boston Ferns, 4 in., 12c.
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 - 100 Anna Foster, 3 in., 10c. each.
 - 100 Sword Ferns, 4 in., 15c.
 - 1000 Geraniums, red, 3 1/2 in., 5c.
 - 2000 Geraniums, red, 2 1/2 in., 2 1/2 c.
 - Balm Rose, Nutmeg, etc., 40c. per doz.
 - Ageratum, Stella Gurney, 2 1/2 in., 2c.
 - 1000 Heliotrope, light and dark blue, 2 1/2 c.
 - 2000 Verbenas, seedlings, separate colors, 1c.
 - 2000 Scarlet Sage, 2c.
 - 1000 Shasta Daisy, 2 1/2 in., 3c.
 - 2000 Clematis Paniculata, 3 year vines, 10c.
 - 1000 Clematis Jackmanni, 2 year vines, 20c.
 - 1000 Wistaria, blue, 3 year vines, 10c.
 - 2000 Honeysuckle, Golden and Halleana, field-grown, 6c.
 - 1000 English Ivy, long tops, 8c.
 - 2000 Ampelopsis Veltchil, 2 years old, 8c.
 - 2000 Ampelopsis, pot grown, dormant, long tops, 4c.
 - 5000 California Privet, 2 year, transplanted, fine bushy stock, \$3 per 100; \$30 per 1000.
 - Caladium Esculentum, Southern grown, size 7x9; bulbs, 5c.; started, 6c.
 - 1000 Vinca Major, var., 4 in., 8c.; 3 1/2 in., 6c.; 2 1/2 in., 3c.
 - 1000 Hydrangea Otakua, 2 1/2 in., 3c.
 - 1000 Hydrangea Paniculata Grandiflora, 3 year, 10c.; 2 year, 8c.; 4 year, 15c.
 - 1000 Viburnum Plicatum (Japan Snowball), 3 year old bushes, fine, \$2.00 per dozen.
 - 1000 Wm. Duckham and Dr. Enguehard Chrysanthemums, 2 1/2 in., 4c.
 - 1000 Clothilde Soupert Rose, 4 in., \$2.00 per dozen.
 - 1000 Asparagus Sprenger, 4 in., fine, 8c.
 - 1000 Asparagus Plumosus Nanus, 3 in., 5c.
 - 1000 Tritoma Uvaria Grandiflora, field roots, 5c.
 - 10,000 Shrubs, Vines and other stock. Send for all lists. Cash, please.
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30,000 strong, transplanted Early Wakefield, \$3.00 per 1000. Special price on 5000 lots.

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Marie Louise, sand rooted cuttings; \$1.50 per 100; \$15.00 per 1000.

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Snowball and Longfellow; 2 1/2 in. pots, \$1.50 per 100; from soil, \$1.00 per 100.

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2 1/2 in. pots, \$2.50 per 100. Cash with order.

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the best bedding

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In the market. Out of 2 1/2 inch pots, \$5.00 per 100. Out of 4 in. pots, \$8.00 per 100.

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all leading varieties, \$2.00 per 100.

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From 2 1/2-inch pots, \$12.00 per 100.

Also a fine lot of BRIDESMAID, BRIDE and AMERICAN BEAUTY From 2 1/2 and 3 1/2 inch pots. Write for Prices.

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Own Root Plants, \$25.00 per 100.

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BRIDE and BRIDESMAID, \$3.00 per 100; \$25.00 per 1000.

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ROSES 2 Years Old 4-inch Pots

American Beauty, Yellow Cochet, Crimson Rambler, Dorothy Perkins, \$10.00 per 100, cash with order.

The following 2-year-old Roses, \$8.00 per 100, Pres. Cleveland, Universal Favorite, Papa Gentier, Christine de Neve, Yellow Souperet, Triumph Perpet Pese, Mary Washington, Mrs. De Graw, Bouquet of Gold, Agrippina, Jersey Beauty, Snowflake, Bride, Bridesmaid, Baltimore Belle, Prairie Queen, Marie Van Houtte, Climbing Malmaison, Olivet, White Pet, Climbing Bridesmaid, Empress of China, Folkestone, Jos. Schwartz, Brabant, Marie Guillot, The Queen, Golden Gate, Golden Rambler, Coquette de Lyon, White and Pink Rambler.

ROSES in 2 in. pots, \$2.00 per 100; \$15.00 per 1000; upward of forty varieties, white, pink, yellow and red.

White Moon Vines, 2 1/2 in. stock, \$3.00 per 100, and a general line of miscellaneous soft stock, \$2.50 per 100.

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From 2 1/2 inch pots

Especially fine lot of Hybrid Perpetuals, Climbers and Ramblers.

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Yellow Cochet
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Marechal Niel
Meteor
Climbing Meteor
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Etoile de Lyon
Ivory
Golden Gate
Bride
Bridesmaid
Duchess de Brabant
Bon Silens
Agrippina
Pillar of Gold

Solfaterre
Grnes an Topltz
Marie Guillott
F. Kruger
Perle des Jardins
Mme. Welch
Safrano
Lamarque
White La France
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From 2 1/2 in. pots, clean, healthy stock; packed light and free; satisfaction guaranteed.

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Kaiserin, La France, Perle, Hermosa, Clothilde Souperet, Cochet (pink and white), Ivory, 3 in. pots, \$4.50 per 100; \$40.00 per 1000.

5,000 MOON VINES

3-in. pots, \$5.00 per 100; 2 1/2-in., \$3.50 per 100.

10,000 COLEUS

\$2.50 per 100; \$20.00 per 1000

SIX BEST BEDDING VARIETIES

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Dwarf or "Baby" Crimson Rambler

(Mme. Norbert Levavasseur)

We have pleasure in offering a splendid stock of this charming and very useful rose from 2-inch pots, well rooted and ready for a shift into 3-inch pots. Many are of the opinion that this is going to be a very valuable pot plant for Christmas Sales and now is the time to get the stock of it for that purpose. Price, plants from 2-inch pots, \$2.00 per doz.; \$15.00 per 100.

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READY NOW

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The most prolific flowering Red Rose in the market to-day. Grows finely in same temperature as Bride or Bridesmaid, and will produce fully as many first-class flowers as either.

2 1/2 in. pot plants, own roots, \$10.00 per 100; \$80.00 per 1000.

Strong grafted stock, from 3 in. pots, \$12.00 per 100.

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ROSES

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Own Root Stock.

2 1/2 INCH POTS.

Bride, Bridesmaid and Meteor, \$30.00 per 1000
American Beauty, \$50.00 per 1000
Liberty, \$40.00 per 1000

Not less than 250 at 1000 rates.

Bedding Plants.

We also have a fine lot of double and single PETUNIAS, SALVIAS, COLEUS Golden Bedder, Verschaffeltii; dwarf LANTANAS, ACHYRANTHES, VINCAS, LOBELIA, CANNAS, DRACENA INDIVISA.

Write for varieties and prices.

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2 1/2 INCH POTS.

Glory of the Pacific, Polly Rose, \$2.50 per 100.

Alice Byron, Lady Harriet, Pink Ivory, White Ivory, J. K. Shaw, Harry Parr, White Bonnaillon, Cobb and Maud Deao, \$3.00 per 100.

Robert Halliday, Yellow Queen, Chadwick, Golden Beauty, R. E. Richardson, Nagoya, \$4.00 per 100.
Josephine, a grand midseason yellow, \$6.00 per 100.

New Varieties.

2 1/2 INCH POTS.

We recommend these three grand varieties:

Chautauqua Gold, yellow, midseason, fine, \$5.00 per 100.
Dr. Enguehard, Wm. Duckham, at \$10.00 per 100.

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ON ITS OWN ROOTS

Strong, healthy, 2 1/2 in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000. Ready to ship at once. A few 3 inch plants, \$3.50 per doz.; \$25.00 per 100.

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Good assortment of varieties, \$3.50 per 100; \$30.00 per 1000. Strong, healthy plants.

Genista Fragrans

2 1/2 in., 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

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We still have healthy, dormant roots, in Crimson, Yellow, Pink, Variegated Shades, Bronze Leaf Varieties. Also Orchid-flowering varieties. Send for our list and prices.

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Strong Stock to Make Plants Quick

Rooted Cuttings

Agaratum, Gurney, Alternanthera, Red, 50c. \$4.00 per 1000. Coleus, best bedders, 80c. \$5.00 per 1000. Savilla, Bonfire, Splendens, 00c. \$8.00 per 1000. Giant Marg., Daisy, White, \$1.00. Seedlings, Verbena, Drier's Giant Mixed, Savilla, Bonfire and Splendens, nice short stout little plants, 25c. per 100, mail 10c. extra. Alternanthera, best red 2 in. 1 1/2 cts. Cash.

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Boston Ferns

Extra fine stock, cut from beach, now ready for 5, 6, 7, 8-inch pots at \$26, \$50, \$75, \$100 per 100. Kentias, Rubbers, Asparagus Plumosus Nanus. Cash or references, please. L. H. FOSTER, 45 King St. DORCHESTER, MASS. Mention the Florists' Exchange when writing.

Asparagus Plumosus Nanus

Strong plants in 2-in. pots, from seed sown 15c August. \$3.50 per 100. Aspidium Taussemense, large bushy plants, in 3-in. pots, 5c. 20,000 Cyrtomium Falcatum, in 2-in. pots, ready about May 10th. Cash please. R. G. HANFORD, Norwalk, Conn. Mention the Florists' Exchange when writing.

PALMS AND FERNS

Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; Pteroni and Boston Ferns, 8 in., \$50.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Latania Borbonica, 3 in. pots, \$5.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Areca Lutescens, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants, from \$1.50 up. Aracaria Excelsa, 4 in., 45c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Aracaria Compacta, from \$1.00 to \$5.00 each. Pandanus Uffleyi, 8 in. pots, 50c. Dracena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Reclinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$9.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Plants in fine condition. JOHN BADER, Troy Hill, Allegheny City, Pa. Mention the Florists' Exchange when writing.

Forcing Hardy Shrubs.

Nearly all hardy flowering shrubs, especially the early flowering species, may be successfully forced under glass and made to bloom long before their usual time outdoors. Some varieties, if properly managed, will furnish a rare and highly prized article in the line of cut flowers for the early Winter months, while the greater number of them can be had in bloom at any time after New Year, and would prove especially valuable and most suitable for the Easter pot plant and flower trade. The mere process of forcing in itself is not difficult or of a complicated nature, and the resulting product, the cut blooms as well as the potted flowering plants are gladly welcomed and eagerly looked for by an appreciative public as something differing from the usual run of the florists' holiday supply. There is no doubt but what the forcing of the best known and easiest managed sorts in quantity, conducted in a rational and systematic manner, would considerably increase the profits of any plant-growing concern, where the necessary space and a house or two during the Winter could be spared and devoted to this feature of floricultural commerce. Many of the varieties which I have tried, some of them forcing remarkably easy, may be recommended to amateur and private gardener, but would, in my estimation, not be the things to include in a list of kinds promising profit to the commercial grower. The florist turning to this line of industry is not likely to make any great mistake, if he selects his material from the following: Double and single lilacs in variety, double and semi-double plums and cherries, double almond, Deutzia gracilis, spiraea, Paeonia Moutan in variety from the earliest flowering sorts, Hydrangea paniculata grandiflora and, of course, the hardy roses, remontants and hybrids. To this list, but requiring a different treatment, may be added: Ghent azaleas, rhododendrons, kalmias and ericas. There is, however, more profit in doing two or three varieties well and forcing them in masses, than to handle a great many kinds, each in limited number. Most all of these shrubs, if wanted for forcing, must go through a course of special culture in the open for a period of two or three years previous to being forced, so that short, well-formed and floriferous stock for the purpose may be obtained. Such plants, especially grown, we are receiving annually in October and November from abroad. My experience leads me to believe that at least the leading sorts, such as roses, syringas and prunus and probably deutzias and viburnum, could to better advantage be raised right here, where they are wanted. Half an acre or an acre of good land, given over to this culture, would, after a start has been made, annually provide all the suitable material needed on the place. Thus the plants would come cheaper, be less damaged by frequent handling, and a greater percentage of them could be worked up to

shapely plants, suitable for a first-class pot plant trade. I have done this on private estates and am convinced that it could be turned to good account commercially.

Preparatory Culture.

Some of the finer varieties of flowering shrubs are, by grafting, worked on to the common sorts, but all lilacs and prunus, including the best varieties, as also the two or three forms of Deutzia gracilis, grow willingly and rapidly from cuttings. They are best propagated from semi-ripened wood in early Fall, so that in the following Spring nice young plants are available for planting out in the field. Here they will rapidly grow into size, if properly attended to as regards pruning, hoeing, watering and sprinkling in hot, dry and windy weather. Pruning, however, is the most important part. The first and occasionally also the second year a judicious stopping, more or less severe, all according to variety, is necessary or shoots too forward and growth too rank. But at all times during the period of their nursery culture must weak, distorted or straggling growth and superfluous shoots be cut clean away or broken off smoothly. This latter, if wanted, may be used for propagating. To obtain a firm and small-sized ball of roots, desirable when potting up, root-pruning is resorted to. In early Fall a sharp spade is used to cut away the straggling roots all around the plants within reasonable distance from their base. This should be done every Fall, every succeeding year cutting a circle a trifle farther away from the stem than the preceding season, and in their last year it is done a few weeks before they are dug up. The majority of those plants, recommended as most tractable under this culture, will, if carefully attended to, at the end of the third and many at the second year, be nice, well-formed bushes from 1 1/2 to 3 feet high with from 12 to 20 strong shoots, profusely set with bloom buds. Only specimens of this description should be selected for forcing in pots. In October they are dug up, those of the desirable size and shape potted up at once, and all plunged in the frames ready for them. These frames must be so constructed that in times of heavy rains raised sashes will keep the plants dry. A moderately moist soil or other material, in which the plants are plunged, will afford sufficient protection against a thorough drying out of the roots, which should be avoided at a time when the wood is ripening. Thoroughly ripened wood assures success in forcing hardy shrubs. A few snappy frosts will help to ripen it, but when Winter sets in for good, the frames should be covered and protected against a solid freezing up, which would render the removing of the plants to the greenhouse later on inconvenient and difficult and would also cause a cracking and loss in pots. A better and more satisfactory pot plant is invariably obtained, if plants suitable for this purpose are potted either in the Fall or Spring previous to time of forcing. This gives them an entire season in the open to become thoroughly established in the pots. The adoption of this plan becomes an absolute necessity if the plants are wanted for extra early forcing. If they are induced by a short period of greenhouse culture in early Spring, to make and complete their season's growth long before those outdoors would, fine material is secured for very early forcing the coming Winter or Fall. The soil in the field should be good, well enriched and freely worked, while that for the benches and pots need not be of a kind especially prepared; a firm potting and planting is of greater importance.

Forcing.

When the plants are wanted for forcing, they are brought into a cool greenhouse from the outdoor frames. For a week or ten days a temperature of from 45 to 50 degrees is high enough. Gradually this is increased until 60 and 65 degrees is reached. They may, if occasion calls for it, even be subjected to a greater heat, but in such a case flowers will not always open evenly, or be of as fine a color, as if given more time to develop. A gentle course in forcing should be the rule, and 65 degrees should be set down as the maximum, while in a temperature much lower fine plants and flowers, as

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also a healthy, fully developed foliage, may be had in March and April. At any rate, the plants should, to some extent, be hardened off just before being offered for sale, if the bloom is fully out. Reasonable ventilation on bright, warm days, the full, unobstructed light, a generous supply of water at the roots, frequent sprinkling and a somewhat moist atmosphere, are essentials while in process of forcing. To bring them into bloom very early will take from 5 to 7 weeks, according to species, while later on toward Spring 15 to 30 days will suffice.

Some of these shrubs, if gently forced, may successfully be used as willing and profitable subjects for years in succession, if sharply cut down, after the blooms are cut, and grown in the open during the Summer. But those having undergone a forcing under high pressure need a year or more in the open air nursery to recover lost strength. Rhododendrons may be had in bloom for Christmas. They and Azalea mollis should, after being forced, complete their growth under glass before being placed outdoors.

Etherization.

Dormant plants, otherwise fully prepared and ready to be forced into bloom, if subjected to the action of ether directly before being placed into the forcing house, will expand their flowers sooner and with greater certainty than plants of the same lot not so treated. This process, new and only sparingly tried by florists, promises to become a great help to those in search of methods that will hasten the production of flowers for the early Winter months, and, no doubt, would prove highly remunerative if properly turned to account.

Etherization does not, to any appreciable degree, affect such plants as roses, azaleas, rhododendrons, deutzia, spiraea, viburnum or peonies—not sufficiently to justify the use of ether in connection with their culture as a profitable measure. If, however, this seemingly drastic process is allowed to have fair and full play on lilacs, cydonias, plums and cherries, it will easily be recognized as a long step forward in floriculture. It will cause these plants to open their flowers in less than half the usual time required. The most responsive sort of the lilacs are Syringa Mme. Lemoine and S. Charles X. and of plums, Prunus nana and P. japonica.

It is absolutely necessary that plants set aside for etherization should be well established in their pots; and etherization does not in the least disqualify such plants for a similar course every year in succession. The process is simple and does not involve any great amount of labor, skill or expense, and any florist may test the merits of this promising new wrinkle for himself.

On a small scale, but giving fullest satisfaction, an experiment may be made in the following manner: The plants are set close together in an airtight ordinary wooden box, we will say, one 3 feet long, 2 feet wide and 4 feet high, or any tight box having a clear inside space of from 20 to 24 cubic feet. Between the pots and covering the same up to the base of the stems goes a layer of sand, which is to protect the roots from the gas. A small shelf or a stout wire-ring or bracket is fastened in the upper part of the box, as high up as possible. On this is placed the dish or open vessel containing the liquid ether. For a box of the given dimensions close to seven ounces of commercial ether are required. After the ether is securely placed on said shelf or wire support, the box is quickly closed and made tight. This operation should be undertaken in a greenhouse, or shed, with a temperature of at least 55 degrees. If much cooler, a greater dose of ether will have to be given. The box remains closed for from 40 to 45 hours. In opening it on the second day, it is safer to keep away lighted candle or lamp. The plants are now taken out, thoroughly sprinkled and at once subjected to forcing. Any delay would diminish the effects of the ether. Treatment from now on is the same as that accorded other plants in process of forcing. It is an interesting fact, worthy of note, that lilacs, which are hastened most by etherization, are also of all hardy shrubs those most easily retarded by cold-storage treatment.

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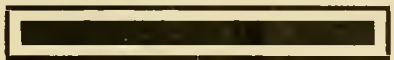
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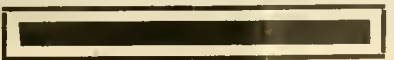
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VIOLETS PRINCESS OF WALES Unrooted cuttings, ready now, 50 cts. per 100; \$4.00 per 1000.

ALYSSUM LARGE DOUBLE SWEET, rooted cuttings, 16 cts. per 100; from 2-in. pots, \$1.50 per 100.

FD. BOULON & SON SEA CLIFF, N. Y. Mention the Florists' Exchange when writing.

CREVILLE ROBUSTA 2 in., \$2.00 per 100. Annapuragon, 2 in., \$2.00. Impatiens Veltchii, 2 in., 2.00.

E. J. RAWLINGS, QUAKERTOWN PA. Mention the Florists' Exchange when writing.

ENGLISH IVY

1/2 in., \$2.50; 2 in., \$2.00; 4 in., (2 plants in a pot) \$3.00. English Ivy Variegated, 2 in., \$2.00.

J. H. DANN & SON, Westfield, N. Y. Mention the Florists' Exchange when writing.

FINE HARDY PLANTS FROM SOIL

Salvia, Silverspot and Bonfire \$1.00 per 100. Carnations, Lord, Queen Louise, 1.60.

WM. KEIR, Pikesville, Md. Mention the Florists' Exchange when writing.

GERANIUMS

BEST standard varieties, in bud and bloom, for immediate sale; stocky plants; state colors wanted; from 4-in. pots, \$3.00 per 100.

Baur Floral Co., Erie, Penn. Mention the Florists' Exchange when writing.

GERANIUMS, Etc.

In bud and bloom, ready May 1st. S. A. Nutt, La Favorite, Gloire de France, A. Ricard, Mme. D.

WM. J. CHINNICK, Trenton, N. J. Mention the Florists' Exchange when writing.

FIRST-CLASS CLEMATIS

AT A SACRIFICE

Jackmanii, Henryi and Mme. Ed. Andre

Good strong plants of the above, two years old, at \$14.00 per 100. 26 plants at 100 rate.

LILLIUM AURATUM, medium sized bulbs, \$3.00 per 100; large size, \$4.00 per 100.

GLADIOLUS MAY, \$10.00 per 1000.

V. H. HALLOCK & SON, QUEENS, N. Y. Mention the Florists' Exchange when writing.

DAHLIA Kaiserin Augusta Victoria

THE BEST WHITE DAHLIA IN EXISTENCE.

My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 5 in. in diameter; a wonderful bloomer, stems 12 to 18 in. long; plants 3 to 3 1/2 feet high.

A. L. MILLER, - Jamaica Avenue, Brooklyn, N. Y. Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

After Easter.

The Easter of 1905 has held what it promised and the sum total of business transacted by florists was fully up to expectations. In some respects it certainly was ahead of any Easter in previous years, while in others it fell markedly short.

Azaleas.

While many of the azaleas were in good trim for the Easter trade, quite a number of them were not. This was to be expected. Any of these valuable plants left over should not, however, be considered a total loss.

Lilies.

The pots containing the bulbs of longiflorum and Harrisii lilies, from which the flowering stalks have been cut, should be placed under a bench and there allowed to partially dry off.

and become fairly good bedding tulips. The bulbs of lilies, if they are to be saved, may be taken out of their pots later on, when the busiest Spring rush is over, and planted out in the open, about six or seven inches deep, in any good garden soil, roots and all.

Roses.

Any roses left over from the Easter sales and past their glory as flowering plants, are not, for that reason, to be considered unsalable stock.

Potted Roses for Next Season.

Now, before dismissing this subject, it seems a good time to remind the rose grower of limited experience that roses, as well as all other shrubby and hard-wooded plants, invariably give better satisfaction and finer results as subjects for Winter forcing if grown in pots.

When the plants are grown in pots all Summer, the roots are there and ready for business. To provide a rose stock in this manner for Winter forcing may entail a little more labor, though I don't see how, and probably a good deal more care and attention; but it pays, and is a gardener-like way to do the work, not being that of a truck farmer.

Now is the proper time to make a start with the best kind of two-year-old selected dormant stock. Prune close, and firmly plant into pots that will just hold the roots, using a heavy, well enriched soil.

As long as the plants are making their growth, they must not be held back by a lack of water, and a daily sprinkling in warm weather should not be omitted.

Young roses in three-inch pots of the right sorts are also good material to start with. These I prefer to grow on a sunny greenhouse bench, giving them a shift as often as needed, until they reach the six or seven-inch pot.

GERANIUMS

All rooted stock sold for this month with the exception of S. A. Nutt.

PETER BROWN, Lancaster, Pa. Mention the Florists' Exchange when writing.

YOUR OPPORTUNITY

Nice Double Geraniums, 4 in. pots, \$7.00 per 100. Vienna Variegata, 4 in. pots, \$10.00 per 100.

C. S. CHASE, Dighton, Mass. Mention the Florists' Exchange when writing.

GERANIUMS

Good little plants, Nutt and other best doubles, \$1.35; strong, \$2.00 per 100.

COLEUS

Fancy, \$5.00; Giant Leaved, \$8.00 per 100. Verschaffeltii, G. Bedder (true), Corona, red, with broad gold border, fine, \$6.00 per 1000.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

COLEUS

Verschaffeltii, Golden Bedder, and 15 assorted rooted cuttings, 60c per 100; \$5.00 per 1000; 2 in. pots, \$1.50 per 100.

AGERATUM, Pauline and Gurney, rooted cuttings, 60c per 100; 2 in. pots, \$1.50 per 100.

SALVIA, HELIOTROPE, VINCA VARI-GATA, ALYSSUM, FUCHSIAS; rooted cuttings, \$1.00 per 100; 2 in. pots, \$2.00 per 100; 3 in. \$3.00 per 100.

ALTERNANTHERAS, P. Major, \$6.00 per 1000; A. Nana, \$4.00 per 1000.

MARGUERITE Carnation Seedlings, 75c per 100; 2 in. pots, \$1.50 per 100.

PANSY PLANTS, \$1.00 per 100, \$8.00 per 1000. Small size, 50c per 100.

CASH WITH ORDER. ERNEST HARRIS, Delanson, N. Y.

PETUNIAS

Double, Fine Variety and Stock 2 in., 2 cts.

Rooted Cuttings, prepaid. Cuttings, plants Per 100 Per 1000

Ageratium, Pauline, Gurney, \$0.50 \$2.00

Salvia, Bonfire, Splendens, Silverspot, .90 2.00

Petunia, d'ble, 10 finest, Fuchsia, 5 kinds, 1.00 2.00

Hardy Pinks, 6 sorte,75

Pansy Daisy, Feverfew Gem, 1.00 2.00

Alternanthera, red and yellow, .50 1.50

Heliotrope, Stevia Serrata,75 1.50

Colera, 12 best bedders, 1000, \$5.00 .60 2.00

Abutilon, Eclipse, Golden Bells, 2.50

Smilax Seedlings, 30c. 100; Centaurea, Dusty Miller and Golden Feverfew, 50c. per 100.

White Daisy, Snowball, Longfellow, wintered over, in bud and bloom, 1000 for \$2.50.

Pansies, Fall sown, 1000 for \$2.50.

Coreopsis Lanc., field-grown, \$2.00 per 100.

Cash. Direct all orders plainly to BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

Hardy Perennials for Florists

To Supply Cut Flowers during Spring and Summer.

Burbank's Shasta Daisies Divisions of selected stock; extra strong, \$1.00 per 100; \$30.00 per 1000.

2nd size, \$2.50 per 100; \$15.00 per 1000.

Rudbeckia (Golden Glow), Strong divisions; \$3.00 per 100; \$20.00 per 1000.

Achillea The Pearl, Clumps, \$2.50 per 100; \$15.00 per 1000.

Delphinium Hybrid d. pl. Colors, all shades from sky blue to dark purple, strong divisions, \$6.00 per 100.

Delphinium Hybrid, d. pl. Frau Emma Metzger, the best of all Delphiniums for cutting; color, sky blue tinted silvery rose; a good keeper. Plants from cold frames; from last years sowing. \$1.50 per doz.; \$10.00 per 100.

Delphinium Formosum, \$5.00 per 100.

" Chiuensis, \$5.00 per 100.

Pyrethrum Roseum Hybrid Grandiflorum.

Seed from Kelway's Prize Collection. One-year-old clumps, \$1.50 per doz.; \$7.00 per 100.

Cash or satisfactory reference with order.

WM. A. FINGER, Hicksville, L. I., N. Y. Mention the Florists' Exchange when writing.

SOMETHING NEW FOR DECORATING

NOW that the season for Wild Smilax is over and no more stock can be supplied, I wish to call your attention to the **Branches** of the **HUCKLEBERRY TREE** as a most elegant Decorative Green.

It is largely used by the Florists of the Pacific Coast, Washington and Oregon, in Decorations. The branches are **Flat**, very thickly furnished with exceedingly lustrous green leaves, and it seems to adapt itself to almost any position in decoration that the Wild Smilax can be used in.

As the introducer of Southern Wild Smilax, I think you can give me credit for knowing a good thing when I see it, and I am convinced that in **HUCKLEBERRY BRANCHES** you will have a very beautiful substitute for the Wild Smilax, of great value to you through the months of May and June.

I am anxious to get the verdict of the Floral Trade on this introduction and offer to send you a case on suspicion. Price **\$2.50 per case** if it suits you, nothing if it does not.

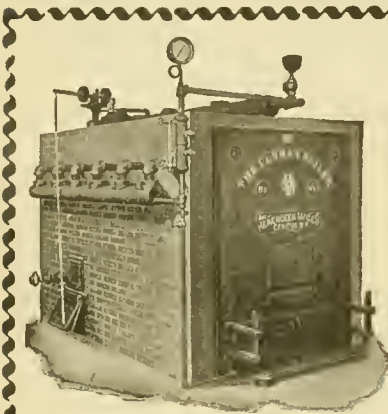
New Crop HARDY FERNS Now Ready
FANCIES, \$1.25 per 1000.
DAGGERS, \$1.00 per 1000.

WILL YOU TRY A CASE ON THESE TERMS?

Yours very truly,

CALDWELL THE WOODSMAN, The man who gave you the **WILD SMILAX,** **Evergreen, Ala.**

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Powerful Furman Boilers Save Coal

Furman Boilers have been awarded Certificate of Merit at Five different Florists' Conventions

Have a Record of 20 Years. Over 25,000 Furman Boilers in use

They are made in many styles: Round, Sectional, Brick-set, Asbestos Covered, etc., and in sizes up to 85 horse power. Costing from \$25 to \$1,000 each, Net.

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NIAGARA CEMENT & CONCRETE CO.
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SHEEP MANURE
 Pulverized. Free from all Adulteration
 In Bags, \$18.00 per Ton
 Special price on car load lots in bulk
ROBERT SIMPSON, Clifton, N. J.
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CASPER LIMBACH GREENHOUSE GLASS
 A SPECIALTY
 Window Glass. Painters' Supplies.
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The Standard Ventilating Machinery
 The original machine with self-acting cups; the most powerful, least complicated, very compact, with ease of operation.
 The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market.
 The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.
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Oyster Shell Lime
 The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.
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 Manufacturers of ONLY OYSTER SHELL LIME
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Are for sale by all the leading Seedsmen this season. Be sure to specify **COLUMBIA TUBS** when you order if you want the best plant tub made. Manufactured by

INVALID APPLIANCE CO. 629-631 N. Halsted St. **Chicago, Ill.**
 Mention the Florists' Exchange when writing.

A Chicago Joke.
 Amateurs—What's the quickest and easiest way to make a hotbed?
 Oldtimer—Soak the mattress with kerosene and touch a match to it.—Chicago Evening Post.

Syracuse, N. Y.
News Jottings.
 L. E. Marquisee had the decorations for the Chamber of Commerce banquet. The color scheme was red and yellow, carnations and daffodils being used. Wheadon & Hencle have an elaborate decoration for the Oberdorfer-Thalheimer wedding. P. R. Quinlan & Co. opened a branch store for the accommodation of their patrons during the Easter season. Manager Robertson's window decorations are becoming a feature for the visitors and shoppers. His Easter window had its admiring crowds from early until late. A miniature lake bordered with lycopodium, with flowering plants overhanging in such a manner as to suggest a grotto, with a gondola manned by tiny ducklings holding streamers of tiny ribbons.
 Alfred Bellamy, of Oakwood Cemetery, reports a heavy sale of lilies.
J. B. B.

HACKENSACK, N. J.—The greenhouses of Kuhnert & Son were broken into on the morning of April 21 and plants and flowers stolen to the value of \$40.

BIG BUSINESS ASSISTANT

TO SAVE TIME, QUICKEN SALES, AND AID YOU PLEASE YOUR CUSTOMER, WE HAVE PREPARED

Cultural Directions

COVERING A NUMBER OF THOSE PLANTS AND BULBS MOST LARGELY IN DEMAND

THE "CULTURALS" have been written by experts; they are fuller, and contain more detailed directions than it is possible to embrace in a catalogue. Equipped with these, just hand one out with each sale, and save yourself considerable present and future trouble, as the customer will then be able to consult the directions instead of having to continually resort to you for advice.

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| CANNA | GLOXINIA | PRIMULA |
| CHINESE SACRED LILY | HOUSE PLANTS, Care of | ROSE CULTURE |
| CHRYSANTHEMUM | HYACINTHS, Dutch and | SWEET PEA, The |
| CLIMBING PLANTS, Hardy | Roman | TUBEROSE |
| COLEUS and other Bedders | IRIS AND TRITOMA | TULIP |
| CROCUS, Snowdrop and | LAWNS | VEGETABLES |
| Scilla Sibirica | LILY CULTURE for House and Garden | WATER GARDEN, How to Make and Manage a |
| DAHLIA | | |

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Printed on white paper, clear type, size 8 x 9 1/4 inches, in an assortment, your selection, of not less than 100 of each, delivered carriage paid. Sufficient space will be left at the bottom of each leaflet for your name, address, etc. If you desire this imprint (3 lines) we will put same on for you, at 50 cents for 500, 75 cents for 1000. Special quotations will be made on quantities of 10,000 "CULTURALS" or over.

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Wholesale Prices of Cut Flowers, New York, April 28, 1905.

Prices quoted are by the hundred unless otherwise noted.

A. BEAUTY, fancy—special	10.00 to	20.00	Carnations { In't'r grades, all colors.....	1.00 to	1.25
" extra.....	8.00 to	10.00		" White.....	1.00 to	2.00
" No. 1.....	6.00 to	8.00	STANDAED { Pink.....	1.00 to	2.00
" No. 2.....	4.00 to	5.00	" Red.....	1.00 to	2.00
" No. 3.....	3.00 to	4.00	" Yel. & Var.....	1.00 to	2.00
Bride, 'Maid, fancy—spe'l	5.00 to	6.00	" White.....	2.00 to	3.00
" extra.....	3.00 to	4.00	" Pink.....	2.00 to	3.00
" No. 1.....	1.00 to	3.00	" Red.....	2.00 to	3.00
" No. 2.....	.75 to	1.00	" Yel. & Var.....	3.00 to	4.00
Golden Gate.....	2.00 to	6.00	LILY OF THE VALLEY.....	3.00 to	4.00
Liberty.....	1.00 to	6.00	MIJONNETTE, ordinary.....	1.00 to	2.00
Mme. Abel Chateau.....	1.00 to	6.00	" fancy.....	4.00 to	6.00
ANANTUM.....	.50 to	.75	NARBOUSE, Paper White.....	.50 to	.75
CROWNUM.....	.50 to	1.50	" Ordinary Yellow.....	.50 to	.75
ASPARAGUS.....	25.00 to	50.00	" Double Yellow.....	2.00 to	2.50
" Sprengerl, bunches.....	10.00 to	25.00	PANSIES, per dozen bunches.....	.35 to	.50
CALLAS.....	6.00 to	8.00	ROMAN HYACINTS.....	1.00 to	2.00
CATTLEYS.....	40.00 to	75.00	SMILAX.....	12.00 to	25.00
DAISIES.....	.50 to	1.50	STOCES, per bunch.....	.10 to	.25
LILAC, per bunch.....	.35 to	.50	SWEET PEAS.....	.50 to	.75
LILIES.....	4.00 to	6.00	TULIPS.....	.50 to	2.00
			VIOLETS.....	.40 to	.75
			" specials.....	.75 to	1.00

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 Send us a Trial
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CUT FLOWERS AT WHOLESALE

Receiving Daily
 Fine
 PRES. CARNOT
 KAISERINS
 METEORS
 BEAUTIES
 Etc.

Boston.
Easier Echoes.
 As anticipated, the plant trade in Boston was far better than the cut flower business. It is safe to say that the business done was not much in excess of last year's, for quite a lot of plants were left unsold. In some cases trade was much better than a year ago but on the whole the increase, if any, was slight. The cut flower business was not nearly up to expectations, and no particular flower seemed to find more favor than another. But, if anything, American Beauty and Liberty roses were the most popular. In plants there were few novelties; perhaps the best selling were lilies, of which there was an exceptionally fine stock this season. Azaleas were good sellers, and few were left over. Ericas were not seen in such quantities as a year ago, but they sold well. Hydrangeas were not very plentiful and were all sold out. Rambler roses did not sell so well as formerly, although any of the Baby Rambler that was on hand went well. Acacias, genistas and such plants sold fairly well, although there was not a great stock on hand. Prices compared favorably with those of former years.
News Jottings.
 The Waban Rose Conservatories did the largest Easter business in their history. This was not only owing to an exceptional fine stock of all kinds of roses, but to the good central location of their salesroom and improved facilities for shipping. Their Liberty roses were exceedingly fine; and their new rose Wellesley was one of their best sellers.
 James Rough, one of Boston's oldest established florists, is confined to his home with pneumonia.
 Macmulin had the decorations for the Bleakie-Stone wedding at the Tuilleries, and the Burlingame-Gannett wedding at Cambridge, both on Wednesday.
 Talby, of Wellesley, is bringing in some fine plants of the yellow calla, also lots of blooms of his new variety, Mrs. Theodore Roosevelt.
 James Farquhar returned from Porto Rico on Tuesday. He is favorably impressed with his experiments on the island in lily growing, and intends to return there again in a few weeks.
 Henry M. Robinson has started on a several weeks' business trip in various sections of the country.
 J. W. DUNCAN.

Worcester, Mass.
 Lord & Burnham Co. has a force of men at work erecting a double house (carnations and roses) for H. F. Littlefield size 125x62 feet.
 Orders for Memorial Day are being booked in goodly number.
 With the advent of warmer weather the seed trade is picking up.
 CAROLUS.
 MARQUETTE, MICH.—The Lutey Floral Company's personal property was sold at auction April 18. A new company, of which A. E. Lutey is the manager, is being organized.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
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CUT FLOWERS.
 Consignments solicited. Prompt settlements
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GARDENIAS, SWEET PEAS, DAISIES and the finest AMERICAN BEAUTIES

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1516 and 1518 Sansom St., PHILADELPHIA, PA.

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FANCY CARNATIONS AND ROSES **PITTSBURG CUT FLOWER CO., Ltd.**
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NEW CROP FANCY and DAGGER FERNS

Special Quantity Prices on Application
E. A. BEAVEN, Evergreen, Alabama

READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.

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Sphagnum Moss and Cedar Poles
Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.

H. R. AKERS, CHATSWORTH, N. J.
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1 1/4-inch Letters and Figures..... per 100, \$2.50
2-inch Letters and Figures..... " 2.50
2 1/2-inch Letters..... " 3.00

Add 10c. per 100 on 2 and 2 1/2 in. Letters if by mail
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FERNS

FANCY, \$1.50 per 1000. DAGGER, \$1.25 per 1000.
GALAX, brilliant bronze or green, 75c. per 1000, \$4.50 per case of 10,000.

Laurel Festooning, hand-made, full size; yard. Made fresh daily from the woods. Send me your orders. We will please you.

Branch Laurel, 35c. per large bundle.

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Prince's Pine by the lb. and made into roping. Tell us your wants and we will name you prices.

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Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.
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Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.
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FANCY FERNS, \$1.50 per 1000.
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Choice Western, length 6 1/2 to 8 feet, 500 for \$2.50; 1,000 for \$4.50; 5,000 and over at \$4.00 per 1000.
TOBACCO POWDER (Strong) For Fumigating, 100 lbs. \$2.25; 1,000 lbs. \$20.00.
For Dusting (Impalpable Powder) 100 lbs. \$2.75; 1,000 lbs. \$25.00.
WOOD, STUBBS & CO., Seedsmen, Louisville, Ky.
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National Florists' Board of Trade

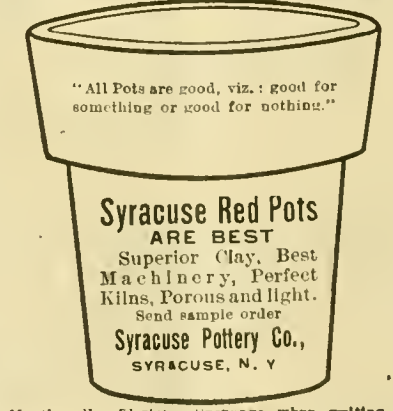
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(Rooms 611-612)
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Packed in small crates, easy to handle.
Price per crate
1500 2 in. pots in crate, \$4.88
1500 2 1/4 " " " 5.25
1500 3 " " " 6.00
1000 3 1/2 " " " 5.80
800 3 3/4 " " " 4.50
820 5 " " " 4.51
344 6 " " " 3.16
120 7 in. pots in crate, \$4.30
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San Francisco.

Regulating Public Flower Markets. Near the close of last year, as reported in this column at the time, the city Board of Aldermen passed an ordinance for the regulation of public flower markets.

Cincinnati.

A Damaging Storm. On Friday noon a furious storm came on and rain came down in torrents, but as it crossed the river into Kentucky the rain took on the shape of hail.

DES MOINES, IA.—The Loziers have made arrangements whereby they will control the output of the W. L. Morris greenhouses, in addition to that from their own extensive plant.

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Wholesale Growers of CUT FLOWERS

Prompt attention given all orders. WORCESTER, MASS.

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We now offer a Nicotine Solution guaranteed to contain not less than

40% NICOTINE

AT THE FOLLOWING EXCEEDINGLY LOW PRICES

¼ Pint, 50c. Pint, \$1.50. ½ Gal., \$5.50. Gallon, \$10.50

This Solution is Unsurpassed in Quality by any Competing Article. Owing to the Marked Success of our "NICO-FUME" Tobacco Paper Insecticide, we call this Solution

"NICO-FUME" LIQUID

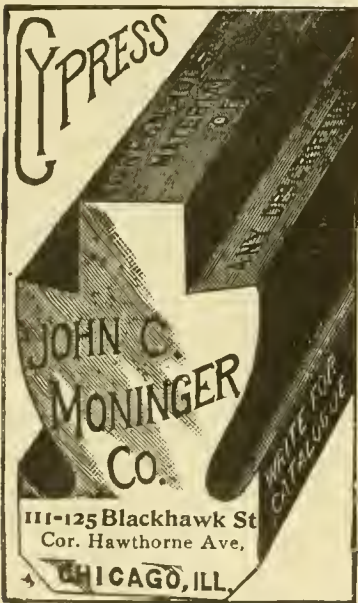
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CYPRESS
SASH BARS
UP TO 32 FEET OR LONGER.
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Send for our Circulars.
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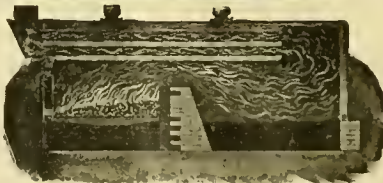
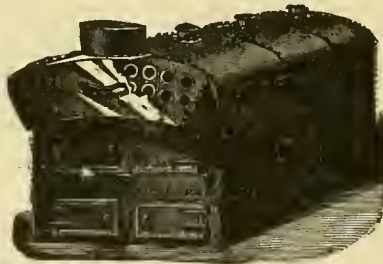
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LA CROSSE, WIS.—John Thorpe is supervising the planning and construction of ten greenhouses for L. F. Easton, of this city.

WEST HARTFORD, CONN.—We regret to learn that A. Whiting, the veteran florist of this place, is seriously ill, and there is little hope of his recovery.

LOUISVILLE, KY.—The Kentucky Society of Florists will hold its May meeting on Tuesday evening, the 2d, at the office of Coenen & Bohman. The gathering will be in the nature of a farewell to Joseph Coenen, who leaves us the first of June to make a new home in the West. The officers of the society request a large attendance of the members. A. R. B.

"Absolutely Safe and Reliable."
Ask your friends.

We delight in having our BLUFFS CALLED by visits to our plant

There we have no trouble in proving our claims to prospective purchasers of

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AND
TOWERS



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LOUISVILLE, KY.



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Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 ¾ c. per foot.

Horticultural building of every description.

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OUR FACILITIES INCREASED
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Write for Catalogue and Estimate, when figuring on your new houses.

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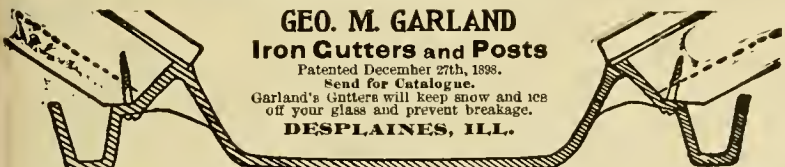
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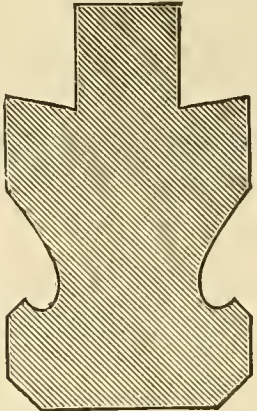
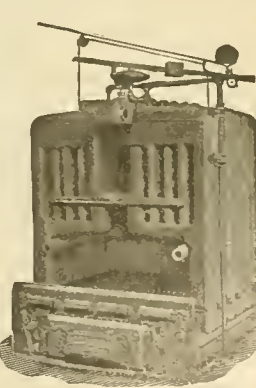
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Write for catalogue and prices
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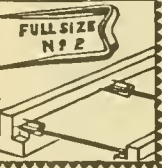
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or spray. It will clean out the pests, no doubt of that, and the experience
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**Perfect Tomato
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Plant Support**

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Mention the Florists' Exchange when writing.

Our Gallery of Fine Specimens



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ACER CAMPESTRE AUSTRIACA

The Austrian Maple, a form of the common field Maple of England, with much larger leaves than the type. The specimen illustrated is growing in the White Lot, not far from the President's Grounds, Washington, D. C. This Maple can be readily transplanted at the proper seasons—Spring or Autumn—and flourishes in any ordinary situation.

THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 18

NEW YORK, MAY 6, 1905

One Dollar Per Year

Hardy Field-Grown Roses

Extra Strong Two-year-old Plants in Splendid Condition

Strong plants, which if planted at once will bloom freely this summer. We offer a list of extra choice varieties at \$2.00 per dozen; \$12.00 per 100, as follows: Margaret Dickson, Baronesa de Rothschild, Ulrich Brunner, Magna Charta, Mrs. John Laing, Prince Camille de Rohan, Capt. Christy, Jules Margottin, Perles des Blanches, White Rose, Crested Mosa, Rugosa Alba, Rugosa Rubra, etc., etc. Also

FRAU KARL DRUSCHKI This is a queen among white roses, of the very largest size, pure snowy white, long pointed buds with shell-shaped petals, opening large and full. A continuous and free bloomer. The finest hardy white rose in cultivation. \$5.00 per dozen; \$30.00 per 100.

CAPT. HAYWARD Extra choice. Bright carmine-crimson. Very large. \$2.50 per dozen; \$16.00 per 100.

MRS. R. G. SHARMAN=CRAWFORD Deep rosy pink. \$2.50 per dozen

SOLEIL D'OR Golden orange-yellow. \$2.50 per dozen.

MONTHLY AND HYBRID TEA ROSES Strong field-grown plants. \$2.50 per dozen; \$16.00 per 100, as follows: La France, Gruss an Teplitz, Maman Cochet, Belle Siebrecht, Hermosa, Gloire de Dijon, American Beauty, Kaiserin Augusta Victoria, etc., etc.

New Dwarf Perpetual-flowering

CRIMSON, OR BABY RAMBLER (Mme. Norbert Levarasseur). Strong field-grown plants. \$6.00 per dozen.

STANDARD, OR TEA ROSES 12 best named sorts: fine collection. \$5.00 per dozen; \$35.00 per 100.

AMPELOPSIS VEITCHII. Extra strong field-grown plants. \$12.00 per 100.

ARISTOLOCHIA SIPHO (Dutchman's Pipe). Strong field-grown plants. \$3.50 per dozen. \$12.00 per 100.

HYDRANGEA PANICULATA GRANDIFLORA. Strong field-grown plants, \$12.00 per 100.

CLEMATIS Jackmanni, Henryi, Duke of Edinburgh, Hybrida Sieboldi, etc. Strong two-year-old field-grown plants. \$3.50 per dozen; \$25.00 per 100.

CLEMATIS Ville de Lyon. Few large red-flowered clematis. \$9.00 per dozen.

AZALEA MOLLIS. Fine bushy plants, well budded. \$4.50 per dozen; \$30.00 per 100. Also large stocks of **Colorado Blue Spruce, Retinosporas, Boxwood** in bush and Pyramidal form, **Hardy Phloxes**, etc., etc.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

HARDY VINES AND CLIMBERS

CLEMATIS INTEGRIFOLIA DURANDI

Iron Cross Clematis. The steel blue flowers grow in the form of the famous German Iron Cross, measuring 3 to 4 inches across in a dense form intermixed with the buds. A very robust and vigorous grower, although of semi-dwarf habit. Blooms from early summer until late fall. 4-in. pot plants, 5c. each; \$5.00 per doz.

CLEMATIS

JACKMANNI HYBRIDS

Duchess of Edinburgh. Double white.
Henryi. Large single white, very large flower.
Jackmanni. Dark, royal purple; most popular single variety.
Mme. Baron Vaillard. Light rose.
Sieboldia. Lavender.
The Gem. Deep lavender, blue, very fine.
Gipsy Queen. Fine dark single purple.
Imported three-year-old open-ground roots, 50c. each; \$1.00 per doz.; \$30.00 per 100.
Imported two-year-old pot-grown, 40c. each; \$3.00 per doz.; \$30.00 per 100.
American-grown one-year-old field roots, \$2.00 per doz.; \$15.00 per 100; \$125.00 per 1000.

OTHER CLEMATIS

Clematis paniculata. Strong four-year-old field-grown plants. 25c. each, \$2.00 per doz., \$15.00 per 100.
Strong three-year-old roots, 15c. each, \$1.50 per doz., \$10.00 per 100.
Strong one to two-year-old roots, 10c. each, \$1.00 a doz., \$7.50 per 100.
Clematis coccinea. A handsome variety, producing an abundance of large rosy-scarlet, bell-shaped flowers, which are exceedingly handsome and most useful for all sorts of decoration. Blooms from June until frost. Quite hardy. 10c. each, \$1.00 per doz., \$7.00 per 100.
Clematis crispa. Much like coccinea, but producing very fragrant lavender flowers, tipped white. 10c. each, \$1.00 per doz., \$7.00 per 100.

Clematis Davidiana. Dwarf, herbaceous sort, growing about 2 to 3 feet high, covered with deep blue flowers in clustered heads, also singly in leaf axils. 1-year-old, 2 1/2 in. pots, 8c. each, 65c. per doz.; \$1.00 per 100, \$10.00 per 1000. Two-year-old, open-ground, 10c. each, 75c. per doz., \$5.50 per 100, \$50.00 per 1000.

BIGNONIA (Trumpet Creeper)

Grandiflora. Strong plants. 35c. each; \$3.50 per doz.

Rudicaos. Strong Plants. 20c. each, \$2.00 per doz.

WISTARIA SINENSIS

Blue. Open-grown; extra strong, 4 ft. plants, 40c. each, \$3.00 per doz., \$20.00 per 100.

White. Open-grown, extra strong, 4 ft. plants, 50c. each, \$3.50 per doz., \$25.00 per 100.

HONEYSUCKLES

Extra strong field-grown plants, 4 to 6 ft. vines in variety, 60c. each, \$4.00 per doz., \$30.00 per 100. Variegated: Halleans, yellow; Germanica, white; Germanica, red; Belgica, red; Scarlet Trumpet; Yellow Trumpet.

HARDY ENGLISH IVIES

Strong 4 in. pot-grown (cut back), \$1.00 per doz. \$7.00 per 100, \$65.00 per 1000.

Field-Grown. 2 ft. vines, strong plants, \$1.25 per doz., \$8.00 per 100, 2 1/2 in. pots, 30c. per doz., \$2.50 per 100, \$20.00 per 1000.

AMPELOPSIS VEITCHII

Sometimes called Boston Ivy and Japan Ivy 3 to 4 ft. high. Extra strong, imported roots, many vines. 20c. each, \$1.50 for 10, \$12.50 per 100, 2 to 3 ft. high, strong roots, \$1.25 for 10; \$10.00 per 100.

Well established 5 in. pot plants, 30c. each, \$3.00 per doz., \$22.50 per 100.

ARISTOLOCHIA SIPHO

(Dutchman's Pipe Vine)
We offer an extra fine stock of this most useful hardy climber in extra strong vines, 2 to 4 ft., 60c. each, \$5.00 per doz., \$40.00 per 100.



CLUCAS & BODDINGTON CO. 131 WEST N. Y. CITY
23d STREET. PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

CARNATIONS

Last Call

	From Sand	Per 1000	2-in. pots
	Per 100	Per 1000	Per 100
LAWSON	3000	\$2.50	\$20.00
NELSON FISHER	1500	5.00	40.00
"	500		\$8.00
ENCHANTRESS	1000	4.00	30.00
JUDGE HINSDALE	1000	5.00	40.00
"	500		6.00
MRS. PATTEN	500	6.00	
"	250		6.00
OCTOROON	1000	6.00	50.00
"	500		6.00
THE PRESIDENT	500	7.00	
LIEUT. PEARY	2000	12.00	100.00
"	300		12.00
LADY BOUNTIFUL	1000	6.00	50.00
"	250		6.00
THE BELLE	300	6.00	
MACKINAC	1000	5.00	40.00
"	500		5.00
GOLDEN EAGLE	500	5.00	
"	500		6.00
CARDINAL	500		12.00

25 at 100 rate; 250 at 1000 rate.

All first-class well-rooted stock. Remember you can save 5 per cent from the above prices by sending check with your order.

COTTAGE GARDENS COMPANY, INC.

C. W. WARD, Manager Queens, Long Island, New York

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Samples of my

GRAFTED STOCK

Only a few thousand left. Send in your orders now before they are all sold.

W. H. ELLIOTT, Brighton, Mass.



ROSY PROPOSITION

\$5.00 per 100, while they last

Caroline Testout, Climbing La France, Chas. Wood, Red Moss, Marie Henrietta, Baron Bonstetten, Gabriel Luizet, Farquhar, Dorothy Perkins, grafted stock.

SHEEP MANURE

Fresh consignment from the ranches, thoroughly pulverized and sterilized, 100 lbs., \$1.25; ton, \$20.00

- BAMBOO CANES, extra fine clean stock, 6 to 8 feet per 1000, \$5.00
- RAFFIA, long braids, good, bright sample..... per lb., 15c.; per 100 lbs., \$12.00
- RUBBER HOSE, "Liberty" brand, 3/4 inch per foot, 10c.
- LIL'UM SPECIOSUM RUBRUM per 100, \$6.25
- " " ALBUM per 100, \$6.50
- BERLIN and HAMBURG PIPS per case (2500), \$20.00; per 1000, \$9.00
- GLADIOLUS, all the best colors, in mixture per 1000, \$5.50
- TUBEROSES, Excelsior Pearl, dwarf, 3 to 4 in. diameter..... per 1000, \$0.00
- PEONIES, Double Chinese, mixed varieties..... per 100, \$12.00
- DAHLIAS, Double, extraordinarily fine collection in mixture per 100, \$5.50

WM. ELLIOTT & SONS, NEW YORK.

Mention the Florists' Exchange when writing.

ONION SETS

BLOOMSDALE FARM STOCK

Very Superior, hard, dry, not sprouted, clean. Few if any equal in these respects.

ASK FOR SAMPLES AND PRICES

D. LANDRETH SEED COMPANY - BRISTOL, PA.

Mention the Florists' Exchange when writing.



Section of field of

LILIUM HARRISII

Grown by

CHAS. A. V. FRITH, Bermuda

Photo taken April 21, 1905

The "SEMPER IDEM" brand

Mention the Florists' Exchange when writing.

Gladiolus Bulbs

MIXTURES		NAMED VARIETIES	
	Per 100	Per 100	1000
Groff's Hybrid Seedlings, mixed	\$2.00	\$15.00	
Meadowvrite, mixed	1.00	10.00	
General, mixed	.75	7.00	
Lemoine's, mixed	2.00	15.00	
Lemoine's, extra fine mixed	2.50	20.00	
Childsii, mixed	2.00	18.00	
Pink and Rose, mixed	1.25	11.00	
Yellow and Orange, mixed	3.50	30.00	
Striped and Variegated, mixed	2.25	20.00	
White and Bright, mixed	1.40	12.00	
Scarlet and Red, mixed	1.25	10.00	
Augusta, white blue anthers	\$4.00	\$30.00	
Baron Staffe	1.50	14.00	
Branchleyensis	1.50	12.00	
Ceres	1.75	15.00	
Gen. Paul	1.50	15.00	
Gil Blas	1.50	15.00	
Jane Dieulafoy	2.00	20.00	
May, 1st size	1.75	18.00	
Nine. Monneret	1.40	12.00	
Mrs. Beecher	2.50	22.00	
Princesps	3.00	30.00	
Shakespeare	5.00	45.00	
Senator Valland	2.50	25.00	

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK

Branch Store, 404 East 34th Street, New York

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Asparagus Plumosus Nanus

1905 Crop, equal to greenhouse-grown, \$1.50 per 1000 seeds.

A. ABERCROMBY, Los Angeles, California Station D

Mention the Florists' Exchange when writing.

1905 Crop Now Ready ASPARAGUS SEED

Plumosus nanus, lath-house grown, \$1.75 per 1000. Sprengeri, 75c. per 1000.

SMILAX SEED, \$1.25 per lb.

E. FLEUR Oak Grove Nurseries

406 North Los Angeles Street, LOS ANGELES, CAL

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RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.

W. W. RAWSON & CO. Seedsmen, 12 Faneuil Hall Square, BOSTON, MASS.

BULBS

For Forcing Virginia-grown Narcissus and Daffodils

POAT BROS., Bulb Growers ETTRICK, VA.

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CANNAS WE HAVE A FEW LEFT

Good sorts, and will close them out at low prices. Named sorts, \$1.00 per 100; Mixed bronze foliage, 60c. per 100; Mixed yellows, 60c. per 100; All colors mixed, 70c. per 100. Strong, started plants. Give us a trial now.

SOUTHERN FLORAL NURSERY CO., Fruitdale, Alabama

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Clearing Out Sale. Need the Room!

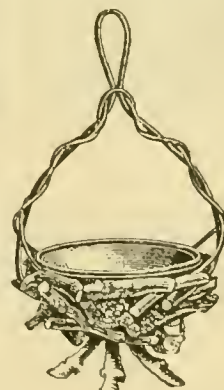
H. P. ROSES in fine condition, as long as stock on hand. \$7.00 per 1000; \$40.00 per 500; \$9.00 per 100, in the following varieties: Baroness Rothschild, Duke of Edinburgh, Magna Charta, Perle des Blanches, Paonia, General Jacqueminot, Victor Verdier.

CRIMSON RAMBLERS extra strong, \$12.00 per 100.

CANNAS Dry roots, Austria and Burbank, \$15.00 per 1000.

Prices on all other Summer and Fall Stock cheerfully given by **F. W. O. SCHMITZ, Prince Bay, N. Y.**

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REED & KELLER

122 West 25th St., New York

RUSTIC WORK

ALL KINDS

Tables, Chairs, Settees, Window Boxes, Tree Stumps, Stump Tubs, Bird Houses, Pedestals, Rustic Fence, Etc., Etc. Superior Workmanship.

Rustic Hanging Baskets

Size..	8	9	10	11	12	13	14
Price, each.....	\$0.50	\$0.65	\$0.80	\$0.90	\$1.10	\$1.25	\$1.50
" per doz.....	5.50	6.75	8.75	9.75	11.35	13.00	17.00

Importers and Manufacturers of All Kinds of **FLORISTS' SUPPLIES** NOVELTIES CONSTANTLY ON HAND

Mention the Florists' Exchange when writing.

JOHNSON & STOKES' PRIZE GLADIOLI

Selected Bulbs. Unsurpassed Quality
FLORACROFT PRIZE MIXTURE, 1st size, \$1.59 per 100; \$10.00 per 1000.
2d size, \$1.00 per 100; \$7.50 per 1000.

CINERARIA AND CHINESE PRIMROSE ENGLAND'S PRIZE STRAINS.

Cineraria, English Prize Mixed, half trade packet, 50c.; trade pkt., \$1.00
Primula, English Prize Fringed, Mixed (Chinese Primrose), per 100 seeds, 25c.; 500 seeds, \$1.00; 1000 seeds, \$1.75.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.
Mention the Florists' Exchange when writing.

CINERARIA GOLD MEDAL MIXTURE
Tall or Dwarf, 1/2 trade packet, 60c.; trade packet, \$1.00.

PRIMULA Fringed Chinese
Alba magnifica, Chiswick Red, Blue, Kermeena splendens, striped or mixed, 1/2 trade packet, 60c.; trade packet, \$1.00.

ALL OTHER SEASONABLE SEEDS.
Let us figure on your wants in FALL BULBS

HENRY PHILIPPS SEED CO. TOLEDO, OHIO
Mention the Florists' Exchange when writing.

WANTED

A reliable firm as Agents to sell our BERMUDA LILY BULBS on commission.
Stock guaranteed and ability to meet all competitors.
References required.

R. DARRELL & Co. Hamilton, Bermuda
Mention the Florists' Exchange when writing.

NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.
Mention the Florists' Exchange when writing.

TUBEROSES



Double Dwarf Pearl, Hand-Picked Bulbs, Blooming, Size 3-4 in., Special Offer, F. O. B. New York:

1,000 for \$3.00
2,000 for 5.50
3,000 for 7.50
5,000 for 11.00

LILIUM RUBRUM 7-9 in. \$6.00
9-11 in. 8.00
11-13 in. 11.00
LILIUM ALBUM 7-9 in. 6.00
LILIUM MELPOMENE 7-9 in. 6.00

84 Randolph St. CHICAGO VAUGHAN'S SEED STORE 14 Barclay Street NEW YORK
Mention the Florists' Exchange when writing.

PRIVET Half Price

12-15 inches \$7.00 per 1000
18-24 " 12.00 "
2-3 ft. \$15.00 per 1000
2-3 ft., 3-year 20.00 "
The above offer is good only when this advertisement is mentioned.

HYDRANGEA, P. G. In quantity. Prices and sizes on application.
IVY Field-grown and pot plants, \$5.00 and \$8.00 per 100.

300,000 ROSES 2 and 4 in. pot plants. Prices and varieties on application.

THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

ST. PAUL.—S. B. Beal, who has been associated with L. L. May & Co. 24 years, has started on his annual trip to Texas and the Southwest.

Catalogue trade has begun to drop off, but for the year will show a decided increase in volume over 1904.

So far there seems to be a good supply of field corn—enough to meet all demands. But the month of May may upset all calculations, as it so frequently does. VERITAS.

European Notes.

A typical Easter has fallen to our share this year—cold, dull and cheerless, and in every way prejudicial to trade. Our friends the florists are bound to feel it, for chilling winds with occasional snowstorms sandwiched between drive people to seek pleasure and comfort by their ain fireside. To the seedsman especially that part of him which looks after seed growing, the advent of the fly which clears off the young plants of brassicas before they are well out of the ground, is causing considerable anxiety. The warm spell reported last week also brought out an army of slugs and other vermin, and already second sowings of many of our broccolis, cabbages and cauliflowers have had to be made, which, considering the heavy cost of the stock seed, forms a serious item of expense.

So long as the northeaster continues we shall be subject to the ravages of this pest, and the extra trade done by second orders from market growers and others do not compensate for the losses we sustain.

As the business of Jacob Wrench & Son has not found a purchaser the voluntary winding up is to be continued under the control of the court. A trade committee of inspection has also been appointed. Creditors had better write off the amount of the claims. The Surrey Seed Company, Limited, of Redhill, England, is apparently in an even worse plight. A receiver has been appointed by the courts to guard the interests of the debenture holders, but the assets are not sufficient to warrant the appointment of a liquidator. Verb. Sap. Sat. Not very cheerful reading for Easter eve.

The other side of the picture is furnished by the genial secretary of the National Sweet Pea Society, who reports that he has already enrolled nearly a hundred more members than last year, and the season has hardly yet begun. EUROPEAN SEEDS.

P. S. The words "of mangel" were unfortunately omitted from the third paragraph in last week's notes.

QUALITY SEEDS BULBS PLANTS SEND FOR CATALOGUE. ARTHUR T. BODDINGTON 343 West 14th St., New York.

Mention the Florists' Exchange when writing.

Mitchell's Prize Seeds

These strains of CINERARIAS AND PRIMULAS are the finest that can be procured from the best European and American specialists.

Table with columns: C. NERARIA GRANDIFLORA, PRIMUMA SINENSIS, and various seed types with prices.

For a complete list of Seasonable Seeds consult our Wholesale Illustrated List, mailed free to all Florists. Write for a copy.

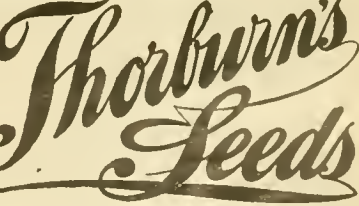
HENRY F. MICHELL CO. Seed Growers and Importers 1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FISCHER'S GRAND PURITY FREESIA

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Bulbs no larger than dried wax beans of this grand Freesia make as large a flower as the large bulbs, only the stems are shorter. All growers should try some of this Queen of Freesia, for when "once grown always grown." Price for large bulbs, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y.
Mention the Florists' Exchange when writing.



CYCAS REVOLUTA \$8.00 per 100 lbs.
Lilium Speciosum Melpomene 7-9 inch size, 200 in a case, \$6.00 per 100.
LILIIUM AURATUM 9-11 inch size, \$6.00 per 100.
Cold Storage Valley Pips in cases of 3,000, \$10.00 per 1000.
LILIIUM HARRISII
LILIIUM LONGIFLORUM
LILIIUM LONGIFLORUM MULTI-FLORUM
Price according to quantity upon application.

J. M. THORBURN & CO. 36 Cortlandt St. New York
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DWARF BOX

3 to 5 in., \$25.00 per 1000; 2 to 4 inches, \$20.00 per 1000.


Specimen Evergreens In fine assortment. Call and see them.

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**
Mention the Florists' Exchange when writing.

RHODODENDRON MAXIMUM

and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety. Herbaceous Perennials by the thousand.
See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass.
Mention the Florists' Exchange when writing.



WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
12, W. Broadway, NEW YORK

Mention the Florists' Exchange when writing.

GLADIOLUS

Named, in 20 fine sorts, 1 in. and up.	\$2.00	\$12.00
No. 2, 3/4 to 1 in.	1.00	8.00
Lemaigne's Hybrids, No. 1	1.00	8.00
" No. 2	.75	6.00
Childs, mixed, No. 2		2.50
" No. 3, 3/4 to 1 in.		1.50

Send for complete price list of bulbs and hardy plants.

E. Y. TEAS, Centerville, Ind.
Mention the Florists' Exchange when writing.

Florists' Flower Seeds
NEW CROP NOW READY.
Catalogues free on application.
WEEBER & DON, Seed Merchants and Growers,
114 Chambers Street, NEW YORK

NEW CROP Flower Seeds

ASTERS—Best German Grown

Queen of the Market	1/2 oz.	15	Oz.	1.50
Victoria		50		1.75
Giant Victoria		60		2.00
Pony Ft. Perfection		45		1.50
Samples Branching, Home-Grown		20		60

Above in Separate Colors or Mixed.
Fresh Tobacco Stems.....\$1.50 per bale of 300 lbs.

W. G. BECKERT, Allegheny, Pa.
Mention the Florists' Exchange when writing.

SEED BAGS

For the Trade
A full line in Manila, Fibre and Laid papers, white, amber and colored. Printing in large or small quantities, one or more colors, with cultural directions and with or without cuts. Samples and estimates on application.

The Brown Bag Filling Machine Co.
Bag Dept.
PITTSBURG, MASS.
Mention the Florists' Exchange when writing.

BOBBINK & ATKINS

Nurserymen and Florists
VISITORS INVITED.
Ask for Wholesale Catalogue. **RUTHERFORD, N. J.**
Mention the Florists' Exchange when writing.

Large Evergreens

All the leading kinds from 2 to 7 feet high, perfect form. Write for prices.
OAK PARK NURSERIES, Patchogue, L.I., N.Y.
M. F. TIGER, Proprietor.
Mention the Florists' Exchange when writing.

OAKS

MACROCARPA, PIN, RED WILLOW OAKS. Fine trees, 8 to 12 feet.
Ask for Price List of Trees and Shrubs.
SAMUEL C. MOON, Morrisville, Pa
Mention the Florists' Exchange when writing.

NARCISSUS

For Early Forcing
We have at our nurseries extra large stocks of Emperor, Oratus, and other of the leading varieties. Write for our list of reduced prices.
HUBERT & CO. N. LE PAGE, Rep. Mt. Vernon, N. Y.
Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA
Blue List of Wholesale Prices mailed only to those who plant for profit.
Mention the Florists' Exchange when writing.

Catalog Engravings and ILLUSTRATIONS
That print EASILY. That's the kind we make—have been since '73.
JAS. M. BRYANT, Horticultural Engraving and Printing
706 Chestnut Street, PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

DORMANT TREES And Plants

Fruits and Ornamentals, including Ampelopsis, Dutchman's Pipe, Wistaria, Roses, Clematis, Shrubs, etc. See our Spring Price List for prices and variety.

W. & T. SMITH COMPANY, GENEVA, N. Y.
Mention the Florists' Exchange when writing.

BURBANK'S PHENOMENAL BERRY TIPS \$2.00 Per Dozen \$10.00 Per 100
Send for Price List, Illustration and Description to
A. MITTING
Kennon Street SANTA CRUZ, CALIF.
Mention the Florists' Exchange when writing.

Onion Sets

CHOICE STOCK
Samples and Prices on Application

VAUGHAN'S SEED STORE
84-86 Randolph St. 14 Barclay St.
CHICAGO NEW YORK
Mention the Florists' Exchange when writing.

TREES
Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country.
Gold Medal—Paris—Pan-American—St. Louis. 102 prizes New York State Fair, 1904.
Illustrated Descriptive Catalogue FREE on Request.
ELLWANGER & BARRY
Mt. Hope Nurseries, Rochester, N. Y.
Drawer 1044 U Established 65 Years.
Mention the Florists' Exchange when writing.

August Rölker & Sons, 31 BARCLAY STREET, New York
P. O. Box 752.
Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Deliveries.
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F. & F. NURSERIES SPRINGFIELD NEW JERSEY
Wholesale Growers **TREES AND PLANTS** In full assortment Trade Catalogue Free
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AMERICAN TREE SEEDS AND PLANTS
Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it.
OTTO KATZENSTEIN & CO.
Tree Seeds and Plants Specialists, ATLANTA, GA
Mention the Florists' Exchange when writing.

PIN OAKS
SPECIAL LOW OFFER
Will move, this spring, a block of fine stocky trees; twice transplanted. In good roots, stems, calliper and tops they will please critical buyers. Low rates for March and April orders. Sizes 6 to 7, 7 to 8, 8 to 9, 9 to 10, and 10 to 12 feet.
ASK OUR PRICE AND SAVE MONEY
ANDORRANURSERIES, Wm. Warner Harper, Prop. CHESTNUT HILL, PA.
Mention the Florists' Exchange when writing.

HARDY ROSES

From 2 1/2 inch Pots
All the leading varieties of Hybrid and Ramblers now ready for delivery. Price, \$4.00 per 100; \$30.00 per 1000. Send cash with orders under \$10.00.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.
THE WM. H. MOON CO., Morrisville, Pa
Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street
WEEHAWKEN HEIGHTS, N. J.
P. O. No. 1, Hoboken, N. J.
JUST RECEIVED FROM OUR HOLLAND NURSERIES
Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE
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KUDZU VINES

"JACK AND THE BEAN STALK VINE"
(Pueraria Thunbergiana)
The most rapid growing hardy vine
1-year, 15c.; 2-year, 25c.; 3-year, 50c.
RHUS TYPHINA LACINIATA
The new cut-leaved Staghorn Sumac
3 to 4 ft., 15c.; 4 to 5 ft., 20c.

EDWARD TEAS, Joplin, Mo.
Mention the Florists' Exchange when writing.

LAWN GRASS SEED in Bulk and Packages
Dickinsons, Evergreen, and Pine Tree Brands
SPECIAL MIXTURES SEED FOR GOLF GROUNDS
MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

HAVING BEEN AWARDED THE **GRAND PRIZE**
For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR
It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Oron's Hybrids and other sorts, the best obtainable.
Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Sager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

THE AMERICAN ASSOCIATION OF NURSERYMEN will hold its thirtieth annual convention at West Baden Springs Hotel, West Baden Springs, Ind., June 14 to 16, inclusive. The program appeared in last week's issue, page 576.

Foreign Grapes Outdoors, Evergreen Shrubs, Etc.

What Professor Massey says of the fruit of the foreign grape, when grown outdoors—that it is not of as good quality as when grown under glass—accords with my own experience and that of others in the North, and it would seem that further than as a curiosity it is not worth attempting.

Professor Massey also names several broad-leaved evergreens plentiful in the South which he thinks might prove hardy in the North. Of those he names, he following are hardy at Philadelphia: Osmanthus ilicifolius, Ligustrum japonicum, Lonicera fragrantissima, Ilex Cassine and Azalea indica alba. Magnolia grandiflora also gets through the Winters, but sometimes considerably injured; still there are trees of it which have stood out in open places for from 20 to 30 years. But it is not happy with us. Cerasus lauro-cerasus will not do, neither will the Cerasus caroliniana.

I have now in my garden a plant of the former which has struggled along for three years. It is still alive, but it gets smaller every year. For one or two Winters it got along nicely, but an extra severe one took it back to the ground. My opinion is that many of these evergreens would Winter better were we to cut off all their leaves when Winter approached, leaving but the wood to bear the cold.

As Professor Massey says, it is not altogether a

question of temperature. Humidity, shade in Winter, or proper ripening of the wood has much to do with it. This recalls to mind that a writer in an English horticultural paper recently spoke of buddleias not being hardy in that country. Two of them, curviflora and intermedia, are common hardy shrubs here; and there are many instances of trees and shrubs standing zero weather here that succumb to far less cold in England.

Evergreens and Shrubs in Pots.

Not only nurserymen, but florists as well, would find their sales materially increased were they to meet Summer trade by potting now an assortment of evergreens and shrubs. Besides the customers who are always too late for stock taken from the ground, there is an ever-increasing list of those who desire to plant in Summer. It is not from neglect that they were not ready earlier. Maybe alterations were under way, rendering earlier planting impossible. Let the reasons be what they may, it is a fact that Summer trade grows, and it will grow faster if those interested in selling prepare to push the business. A good assortment of evergreens, shrubs, vines, and even small trees, should be potted, and pains taken to let possible customers know that the stock is to be had. Circulars to old customers will bring trade, especially if there are a few nice items on it to which attention can be called.

In the Middle States, sales are getting over by the close of April, affording time to the nurserymen to get together and potted such articles as have been referred to. As a rule, the smaller growing evergreens are in more demand in Summer than the larger growers. Where the latter are required, those of large size are wanted, and a customer will prefer to wait until such can be taken from the open ground in Fall. The various retinisporas and the varieties of Arbor vitae, as well as yews and junipers, are the best-selling stock; and in the way of something nice, the Japanese umbrella pine, sciadopitys, is a good thing to have; so are the many forms of standard box.

In the line of shrubs, Japanese maples and magnolias always sell. When on lawns they make such a grand display in early Spring that those who see them, and have room for them, rush off to the nearest florist to try to purchase them. And as both break into growth early in the season, it is risky to dig them



FLOWERS OF CERCIS JAPONICA

Rosy Red—In Bloom May 20, 1904

Photo by J. F. Johnston

for transplanting, while, of course, the potted ones are good at any time for setting out. Shrubs and vines can be potted with reasonable safety even when out in leaf. It is worth the risk. A good pruning, shade and moisture for a few days, will bring them around in a short time. Some declare a preference for wooden boxes for all the kinds of potted stock mentioned. There is no need to turn the occupant out of the box, endangering the breaking apart of the ball of soil. When the hole is dug to receive the plant, the bottom of the box can be knocked away, or perhaps the box and all placed in the hole, and then the sides taken off, and the plant goes on growing without disturbance.

Plant Young Trees.

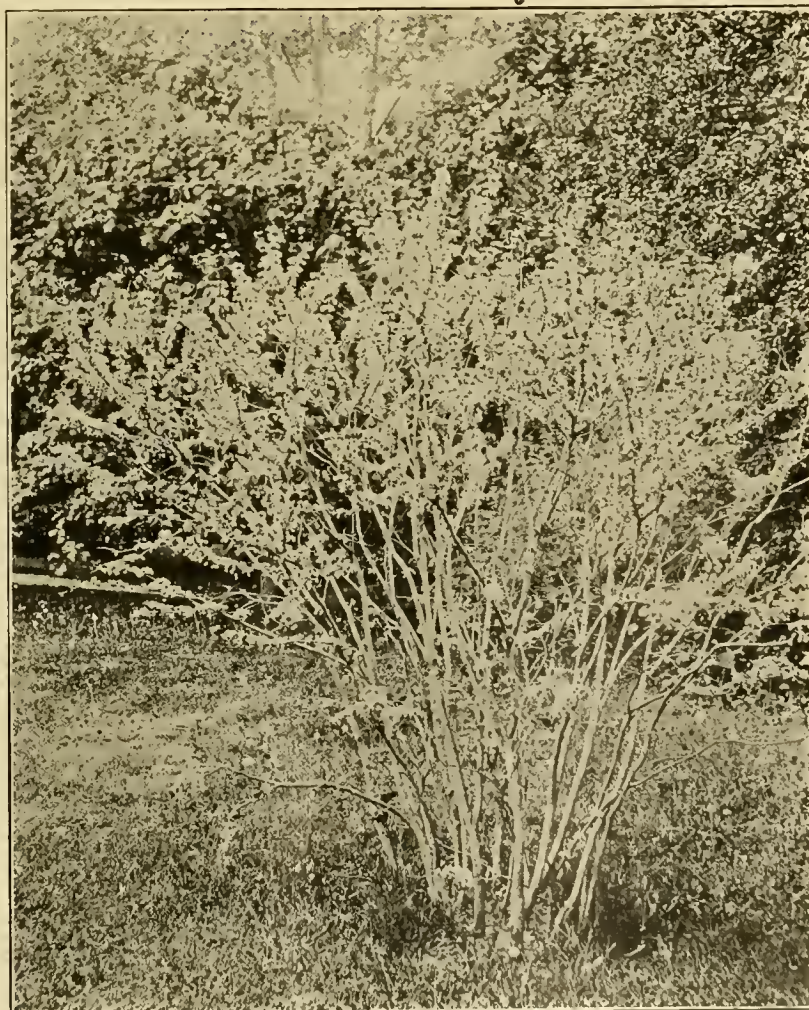
It cannot be urged too strongly on those about to set out fruit trees, to plant young ones instead of those of more age. The man who has only a small city garden, and who has room for but a few trees, is to be excused if he seeks trees of good size. Sometimes, with good care, a quite large tree thrives and bears quicker than a small one; but taking it all in all, the small tree does the better every time. Nurserymen find it to their own interest both to grow and sell small trees. There is less complaint from customers of loss of trees, and more profit comes from small trees than from large ones. Time was that when a nurseryman set out a block of trees he sold from it for several years until practically all the trees had disappeared. He does not do this now. If a block of apples, pears, peaches, and like fruits, are not disposed of in two or three years, the trees are rooted out—peaches after one year—and a new young crop started. This pays very much better than the old plan, and it is much to the customer's interest to have the young trees. In the case of peaches, good one-year plants are the best of all to set out. Pruned back to the main stem, when planted, they make better trees than under any other system.

With the apple, pear, cherry, plum, and similar fruits, a customer will do the best by getting two to three-year-old trees. A size of from five to seven feet high is generally satisfactory to a customer, and it is a safe planting size, and a good one for all who have to handle the tree.

These observations apply as well to all other trees, inasmuch as relates to a small size being more satisfactory to everyone than a large size. There has to be some good-sized transplanted trees of all kinds on hand to meet particular requirements, but it is the plantation of small-sized ones which will please the purchaser best in the end. The nurseryman who sacrifices the few old trees in a block that a setting of young trees may take their places, will be on the road to a greater profit.

JOSEPH MEEHAN.

PANSIES.—Gustav Pitzonka, of Bristol, Pa., favored this office with a box of nice pansies a few days ago. Mr. Pitzonka says he sells the most of his pansy plants through advertising in The Florists' Exchange.



CERCIS CHINENSIS SYN. C. JAPONICA

Photo by J. F. Johnston

Cercis Japonica (Japanese Judas Tree.)

This is the most beautiful of all the Judas trees. In cultivation it sometimes attains the height of from 10 to 12 feet, but, as a rule, it seldom exceeds 8 feet. Unlike Cercis canadensis, it is much hushier in appearance, and when in flower forms a pretty lawn specimen. It is a very free-flowering shrub, bearing numerous peashaped purplish-rose blossoms in clusters during the early days of May. The leaves are cordate. Its blossoms appear before the foliage, so that to appreciate to the full its beauty it should be placed in a situation where it can have some natural dark background.

JOHN F. JOHNSTON.
Glen Cove, L. I.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed.

JAMES VICK'S SONS

ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

SWEET POTATO PLANTS

NOW ready, a large stock of stout, healthy plants. CEDARVILLE, an improvement of Yellow Nansmond.

A NEW EARLY GOLDEN SWEET POTATO

In this we have the Ideal Sweet potato for early market and home use. The color is a beautiful golden yellow, very sweet and palatable.

BIG STEM JERSEY

Extremely early and the greatest yielder of any variety in cultivation. The tubers are light yellow or straw colored, of good shape and fair quality.

VINELAND BUSH

Grows in true bush form, yellow, productive, of good shape and fine quality.

Red Nansmond, or Red Jersey

Pierson, Hayman, Early Red, Spanish, Belmont, Nancy Hall, Vineland Bush and White Bunch, 50c. per 100, postpaid.

H. AUSTIN - Felton, Del.

Vegetable, Greenhouse and Bedding Plants

VEGETABLE PLANTS

CABBAGE Succession, L. I. Second Early, Drumhead, Jersey Wakefield, etc., 25 cts. per 100; \$1.25 per 1000.

PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.

LETTUCE Big Boston, Boston Market, 25 cts. per 100; \$1.00 per 1000.

TOMATOES Earliana, Chalk's Early Jewell, Dwarf Stone, Dwarf Champion, etc., 30 cts. per 100; \$2.00 per 1000.

PEPPERS Bull Nose, Sweet Mountain, Ruby King, 25c. per 100; \$2.00 per 1000.

Miscellaneous Plants

2 1/2-in. stock in A1 condition.

Ageratum, Dwarf White and Stella Gurney, 40c. per doz.; \$2.00 \$17.50

Alysaum, Dwarf White and Giant Double, 40c. per doz.; 2.00 17.50

Alternanthera, red and yellow, low in var., 2.00 15.00

Aquilegia (Columbine), single mix'd 3.00

Canterbury Bell, single and double blue 1.50

Carnations, Dwarf hardy mixed 1.50 12.50

" Marguerite 1.50 12.50

Centaurium gymnocarpum 1.50

Coleus, in good variety 2.00 15.00

Dahlia plants, in var 2.00

Delphinium Formosum 1.50 12.50

Digitalis (Fox Glove), fine mixed, 1.50 12.50

Geraniums, Rose, Lemon, Mrs. Taylor and Fernifolia odorata 2.00

Hardy Chrysanthemums, small-flowering varieties 2.00 17.50

Hardy Chrysanthemums, large-flowering varieties 3.00 20.00

Hardy Phlox, 10 named var. 3.00

Hardy English Ivy 2.00 15.00

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List

Our Collection of HARDY POMPON CHRYSANTHEMUMS is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

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

Mention the Florists' Exchange when writing.

CANNAS Started, strong plants Allemanla, Anstris, Italia, P. Marquand, Kobusta, etc., \$3 per 100. Dahilia, Strong Bulbs, Best Cut Flowers named, \$3.50 per 100. Shellroad Greenhouses, Grange P. O., Balto, Md. Mention the Florists' Exchange when writing

KOSTER & CO.

Hollandia BOSKOOP, HOLLAND Nurseries

Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Pennies.

Pot-Grown Plants for Forcing. RHODODENDRONS, H. P. ROSES, Etc.

Catalogue-free on demand. Mention the Florists' Exchange when writing

STRAWBERRY PLANTS

Strong young plants, well packed, Wm. Belt, Downing, Bubach, Haverland, Brandywine, Gandy, Blamarck, Nick Ohmer, New York, Leater, Lovett, Successa, Reba, Robble, Joe, Marshall, Climax, Fairfield, Storm's Late Champion, Sharpless, 50c. per 100; \$2.50 per 1000.

Dunlap, Tennessee, Parsons, Kansas, Lovett, 50c. per 100; \$2.00 per 1000. 5000 of one variety for \$8.00. Not more than four varieties in 1000 at 1000 rates.

Extra Strong Cuthbert RASPBERRY, 75c. per 100; \$3.00 per 1000. Miller, 75c. per 100; \$3.00 per 1000.

Lovett and Lucretia BLACKBERRY, 75c. per 100; strong plants.

CHAS. BLACK, Hightstown, N. J. Mention the Florists' Exchange when writing.

Vegetable Plants

Large transplanted plants of Cabbage, Celery, Tomato, Pepper, Egg-Plant, Lettuce and Cauliflower for the man that plants for profit.

Our Cabbage plants are transplanted in December and are grown in a cool temperature all winter; they will head quicker than any other plants.

Write for price list.

J. E. HUTTON & SON CONYNGHAM, PA.

Mention the Florists' Exchange when writing.

MISCELLANEOUS PLANTS

(Continued) Per 100 1000

Heliotrope, good varieties.....\$2.00 \$17.50

Ivy Geraniums, in var..... 3.00

Lemon Verbena..... 2.50 17.50

Lantanas, 10 varieties... 2.00 17.50

Maranta Massangeana..... 4.00

Moonyines, white and blue, 50c. per dozen..... 3.00 25.00

Nasturtium, 4 vars..... 1.50

Nymphæa Odorata gigantes, 50c. doz..... 3.50

Petunias Dreer's double mixed 2.60

" Dreer's superb single mixed 2.00 15.00

" fine mixed..... 1.50 12.50

Sage, Hol's Mammoth..... 2.00 15.00

Salvias, in variety..... 2.00 17.50

Smilax, strong..... 2.00 15.00

Sweetwinea Alba and Rosen..... 2.00 17.50

Vines, (Madagascar Periwinkle)..... 1.50

GERANIUMS

Young Stocky Plants from 2-in. pots

DOUBLE. Per doz. 100 1000

Alph. Ricard.....\$0.40 \$2.00 \$20.00

Brunn..... .40 2.00 20.00

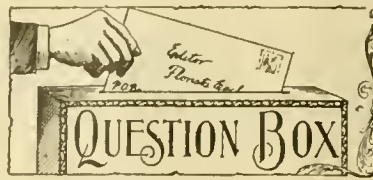
Centaur..... .40 2.00 17.50

Double Gen. Grant..... .40 2.00 17.50

Globe de France..... .40 2.00 17.50

Jenn de la Brete..... .50 2.00 17.50

Jean Vind..... .40 2.00 17.50



Heating.

(154) I have four rose houses, each 18 x 150 feet, that I am heating with steam from one boiler with 22 square feet of grate surface. These houses have glass on both sides and ends, and one-half pound pressure is ample to heat them.

—The boiler is forty horse-power and has a capacity of about four thousand feet of steam radiating surface. You do not state how much heating surface you have in the four present houses, but we assume it is about 2,700 square feet.

How many runs of two-inch pipe will I require to heat a house 68x20 feet, four-foot walls, no glass in either wall; glass in south end; height of roof in center, 11 feet from floor? Would want to heat the house to about 60 degrees.

—You will require for a house 68x20 feet, 19 lines of 2-inch pipe to maintain a night temperature of 60 degrees, if the temperature is 30 degrees below zero outside. These pipes could be distributed under the two outer benches, and the center bench as follows: Seven pipes under each outside bench, and five under center bench.

Plants for Beds and Borders. (155) What plants will make a nice floral display for a middle bed, eight feet in circumference; also, how far apart should they be planted? What hardy plants will make a nice display for side border, 40 feet long? W. L.

—Seeing that the center bed is so very small, a few scarlet geraniums or a few plants of salvia would be as attractive as anything. Plant 12 inches apart. For the hardy border plants,

achilleas, hollyhocks, phlox, anemones, aquilegias, veronicas, digitals, hell-anthus, gypsophila, dianthus, campanulas and rudbeckias are among the best. They should be planted from 18 to 24 inches apart.

Scale on Lemon Ponderosa.

(156) I send you two leaves of my Ponderosa lemon, attacked with a scale. Please give me name and remedy. I have kept it in check quite well by spraying with sulphur tobacco soap. Can you recommend anything better? D. H.

—The lemon leaves are badly affected with brown scale, which could easily have been killed and the plants kept clean if an occasional spraying had been done with one of the liquid tobacco insecticides.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.

Mention the Florists' Exchange when writing.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc.

PETERSON NURSERY CHICAGO, ILL. 505 W. Peterson Ave.

Mention the Florists' Exchange when writing.

VIOLET CLUMPS

Marie Louise, full of runners \$4.00 per 100; \$30.00 per 1000

C. F. BAHRET, Violet Ave., Poughkeepsie, N. Y.

Mention the Florists' Exchange when writing.

VIOLETS

Marie Louise, and rooted cuttings; \$1.50 per 100; \$15.00 per 1000.

DAISIES Snowball and Longfel; low; 2 1/2 in. pots, \$1.50 per 100; from soil, \$1.00 per 100.

GERMAN IVY 2 1/2 in. pots, \$2.50 per 100. Cash with order.

O. H. HOUSE, Babylon, L. I., N. Y.

Mention the Florists' Exchange when writing.

VIOLETS PRINCESS OF WALES

Unrooted cuttings, ready now, 50 cts. per 100; \$4.00 per 1000.

Rooted cuttings, ready for delivery in March, 1905, \$1.50 per 100; \$12.00 per 1000.

ALYSSUM SWEET, rooted cuttings, 75 cts. per 100; from 2-in. pots, \$1.50 per 100.

FD. BOULON & SON SEA CLIFF, N. Y.

Mention the Florists' Exchange when writing.

ASTER PLANTS

MISS KATE LOCK

Now ready to ship, \$1.00 per 100 plants; \$8.00 per 1000. No agents. Don't send checks. Originator.

J. H. LOCK, 41 Manchester Ave., Toronto Ont.

Mention the Florists' Exchange when writing.

PETUNIAS

Double, Fine Variety and Stock 2 in., 2 cts.

Rooted Cuttings, prepaid. Rooted 2-in. Cuttings, plants Per 100 Per 1000

Ageratum, Pauline, Gurney..... \$0.50 \$2.00

Salvia, Bonfire, Splendena, Silverspot .90 2.00

Petunia, d'ble, 10 finest. Fuchsia, 5 kinds Paris Daisy..... .75 2.00

Hardy Pinka, 6 sorts..... .75

Feverfew Gem..... 2.00

Alternanthera, red and yellow, .50 1.50

Heliotrope, Stevia Serrata..... .75 1.50

Coleus, 12 best bedders..... 1.00 \$5.00 .60 2.00

Abutilon, Eclipse, Golden Bella..... 2.50

Smilax Seedlings, 30c. 100; Centaurea, Dusty Miller and Golden Feverfew, 50c. per 100. Double Daisy, Snowball, Longfel, wintered over, in bud and bloom, 1000 for \$2.50. Coreopsis Lane., field-grown, \$2.00 per 100.

Cash. Direct all orders plainly to

BYER BROS., Chambersburg, Pa.

Mention the Florists' Exchange when writing.

Oncidium Varicosum Rogersii

JUST RECEIVED FROM COLLECTORS NEW IMPORTATION

This Orchid is undoubtedly one of the most profitable commercial varieties grown. It throws three-foot stems bearing as many as 170 blossoms of a rich golden yellow, two inches and over in diameter...

Our competitors, as well as all commercial and private Orchid growers who have seen our stock, report that our importations of this valuable Orchid are the truest and best that reach this country.

The plants we offer have several leads and bulbs, many with foliage, and our price, until sold, is as follows: \$1.50 each; \$15.00 per dozen; \$100.00 per 100.



CLUCAS & BODDINGTON CO., 131 West 23d St., New York City

Importers, Exporters and Growers' Agts. of Seeds, Bulbs and Plants PALISADES NURSERIES, SPARKILL, N. Y.

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Table listing various advertisers such as Abercrombie A., Allen J. K., Anderson & Christensen, etc., with their respective addresses and contact information.

Table listing additional advertisers such as Reimberg P., Reinberg G., Reuter S. J., etc., with their respective addresses and contact information.

INDEX TO STOCK ADVERTISED

Index listing various plant species such as Abutilon, Acanthaceae, Ageratum, etc., with their respective numbers and descriptions.

Contents.

PAGE

Table listing various sections of the publication such as Among the Growers, Canadian News, Cercis japonica, etc., along with their corresponding page numbers.

Chicago.

News of the Week.

Business of all kinds is nearly paralyzed by one of the greatest teamsters' strikes that ever happened here. Express drivers are all out, and shippers of cut flowers are experiencing great difficulty in getting their consignments into Chicago.

A lady landscape gardener has been employed by the Illinois Central Railway Company to superintend the laying out of the station grounds along the company's 7,000 miles of road.

Assett & Washburn have been doing most of their shipping trade from the greenhouses at Hinsdale since the strike began.

ROBERT JOHNSTONE. Grand Rapids, Mich.

The funeral of Nick Freyding, of the Wealthy Avenue Floral Company, took place Tuesday of Easter week, and was attended by most of the florists here.

Elli Cross has a new 300-foot house 16 feet wide, recently finished. He has it planted to radishes and cucumbers.

ORCHIDS FLORISTS' ORCHIDS

Largest Importers, Exporters, Growers and Hybridizers in the world. SANDER & SONS, St. Albans, England

JOSEPH HEACOCK WYNCOTE PA.

Grower of KENTIA BELMOREANA and KENTIA FORSTERIANA

JOSEPH HEACOCK WYNCOTE PA. (repeated)

GOLD STORAGE

Prices of Gold Storage Lilium Bulbs. For delivery any day in the year. One whole Box sold at Thousand Rate.

Table listing prices for Gold Storage Lilium Bulbs, including Lilium longiflorum Giganteum, Lilium longiflorum (our Special Stock), and Lilium speciosum rubrum.

COLD STORAGE LILIUM SPECIOSUMS. LILIIUM SPECIOSUM RUBY (Dark Red). 8 to 9 in. bulbs, 150 in a case. 6.00 60.00



CLUCAS & BODDINGTON CO. 131 WEST 23d STREET, N. Y. CITY PALISADES NURSERIES, SPARKILL, N. Y. Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

New Rose Wellesley

Own Root Plants, \$25.00 per 100.

Waban Rose Conservatories, NATICK MASS. John N. May, Summit, N. J. Mention the Florists' Exchange when writing.

XXX STOCK

HELIOTROPES Purple and white, extra strong, 3 in. pots, bushy, in bud and bloom, \$3.50 per 100.

LANTANAS Yellow and pink, extra strong, 3 in. pots, bushy, in bud and bloom, \$3.50 per 100. ROSE GERANIUMS. Extra strong, in 3 in. pots, \$3.50 per 100. SCARLET SAGE. Strong, 2 inch, \$2.00 per 100.

CENTAUREA. Candidissima, true Dusty Miller, 2 in., \$2.00 per 100. NASTURTIUM. New large double yellow, strong 3 in., very fine, 75c. per doz.

GIANT PANSIES Finest large-flowering, mixed, in bud and bloom, \$1.50 per 100.

XXX SEEDS

PRIMROSE IMPROVED CHINESE Finest grown, large-flowering, fringed, single and double, 15 varieties, mixed, 500 seeds, \$1.00; half pkt., 50c. Have the varieties separate also.

CINERARIA Finest large-flowering dwarf, in best mixture, 1000 seeds, 50c.

PRIMULA OBCONICA. New large-flowering fringed, mixed, 1000 seeds, 50c.

PANSY GIANT. The finest large-flowering varieties, critically selected, 5,000 seeds, \$1.00; half pkt., 50c. 500 600 seeds of "Giant Mme. Perrett" added to every \$1.00 pkt. of Giant Pansy Seed. CASE. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa. The Home of Primroses Mention the Florists' Exchange when writing.

ROSES.

Own Root Stock. 2 1/2 INCH POTS. Bride, Bridesmaid and Meteor, \$30.00 per 1000 American Beauty, \$50.00 per 1000 Liberty, \$40.00 per 1000 Not less than 250 at 1000 rates.

Bedding Plants.

We also have a fine lot of double and single PETUNIAS, SALVIAS, COLEUS Golden Bedder, Verschaffeltii, dwarf LANTANAS, ACHYRANTHES, VINCAS, LOBELIA, CANNAS, DRACÆNA INDIVISA. Write for varieties and prices.

LAKEVIEW ROSE GARDENS, Jamestown, N. Y. Mention the Florists' Exchange when writing.

BABY RAMBLER

ON ITS OWN ROOTS

Strong, healthy, 2 1/2 in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000. Ready to ship at once. A few 3 inch plants, \$3.50 per doz.; \$25.00 per 100.

TEA ROSES Good assortment of varieties, \$3.50 per 100; \$30.00 per 1000. Strong, healthy plants.

Genista Fragrans 2 1/2 in., 75c. per doz.; \$5.00 per 100; \$10.00 per 1000. CANNAS

We still have healthy, dormant roots, in Crimson, Yellow, Pink, Variegated Shades, Bronze Leaf Varieties. Also Orchid-flowering varieties. Send for our list and prices.

THE CONARD & JONES CO. WEST GROVE, PA. Mention the Florists' Exchange when writing.

ORCHIDS

We have just received in superb condition, our first shipment of Cattleya Labiata. Write for prices. We also recommend our large stock of well-grown, established Orchids. Write for catalogue.

LAGER & HURRELL, Summit, N. J. Orchid Growers and Importers Mention the Florists' Exchange when writing.

SCOTTII

The Most Graceful Nephrolepis Known.

Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced. Consult any grower who has bought Scottii and he will tell you that it is as far ahead of the Boston as that variety is ahead of all other introductions. See my ad. on page 471 of issue of April 8 for full particulars.

JOHN SCOTT, Keap Street Greenhouses, BROOKLYN, N. Y. BRANCH; E. 45th St. and Kutland Road, Flatbush. TELEPHONE, 1207 WILLIAMSBURG. Mention the Florists' Exchange when writing.

PALMS AND FERNS

Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; Pteroni and Boston Ferns, 6 in., \$50.00 per 100; 7 in., \$1.00 each, Larger plants from \$1.50 upward. Ferns in variety, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Lantana Horbonica, 3 in. pots, \$5.00; 4 in., \$15.00; 6 in., \$25.00; 8 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 6 in. pots, \$50.00; 8 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Areca Lutescens, 4 in., \$20.00; 6 in., \$50.00 per 100; 8 in., \$1.00 each. Larger plants, from \$1.50 up. Araucaria Excelsa, 4 in., 45c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Araucaria Compacta, from \$1.00 to \$5.00 each. Pandanus Utilis, 8 in. pots, 50c. Dracæna Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Reclinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 8 in. pots, \$8.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS.

2 1/2 INCH POTS. Glory of the Pacific, Polly Rose, \$2.50 per 100. Alice Byron, Lady Harriet, Pink Ivory, White Ivory, J. K. Shaw, Harry Parr, White Bonnafton, Cobb and Maud Dean, \$3.00 per 100. Robert Halliday, Yellow Queen, Chadwick, Golden Beauty, R. E. Richardson, Nagoya, \$4.00 per 100. Josephine, a grand midseason yellow, \$6.00 per 100.

New Varieties. 2 1/2 INCH POTS. We recommend these three grand varieties: Chautauqua Gold, yellow, midseason, fine, \$8.00 per 100. Dr. Enguehard, Wm. Duckham, at \$10.00 per 100.

Mention the Florists' Exchange when writing.

Cobæa Scandens

Strong plants, once transplanted, from soil, \$1.25 per 100, prepaid. Cash with order.

WM. BIERSTADT & SON, Springfield, Ill. Mention the Florists' Exchange when writing.

FERNS OUR SPECIALTY

Assorted Ferns for Jardinieres. We have a fine lot of these Ferns in all the best varieties ready for immediate use from 2 1/2 in. pots at \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FERN SEEDLINGS We are hooking orders now for June delivery at \$1.00 per 100; \$8.50 per 1000.

ANDERSON & CHRISTENSEN Telephone 14 F Short Hills, N. J. Mention the Florists' Exchange when writing.

FERNS

A good variety of the right kinds for filling fern dishes, etc., 2 1/2 inch, \$3.00 per 100; \$25.00 per 1000.

DRACÆNA INDIVISA 6 in., 35c. and 50c. each; 4 inch, \$10.00 per 100. Mme. Salleron Geraniums, Coleus, Salvia Splendens 2 1/2 in., \$2.00 per 100. SALVIA, from flats, \$1.00 per 100.

H. WESTON, Hempstead, N. Y. Mention the Florists' Exchange when writing.

FOR SPRING

We offer a general assortment of NURSERY STOCK, including a fine assortment of Apple, Pear, Cherry, Plum and Peach in all grades. Shade and Ornamental Trees, Shrubs and Roses.

CALIFORNIA PRIVET, 1 & 2 yr Smock Peach Pits Send List for Prices.

Franklin Davis Nursery Co. Baltimore & Paca Sts., BALTIMORE, MD. Mention the Florists' Exchange when writing.

ROSES

From 2 1/2 in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000. Clothilde Soupert, best bedding and pot rose, Pink Maman Cochet, fine for Summer blooming, White Maman Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio Mention the Florists' Exchange when writing.

ROSES

BRIDE, BRIDESMAID, IVORY, GOLDEN GATE, MME. ABEL CHATENAY \$3.00 per 100; \$25 00 per 1000

GEORGE REINBERG

51 WABASH AVE., CHICAGO, ILL. Mention the Florists' Exchange when writing.

Grafted Roses

Bridesmaid, Bride, Bon Silene and Safrano. \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbold, \$2.50 per 100. STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses NEWTONVILLE MASS. Mention the Florists' Exchange when writing.

Hardy Perennials for Florists

To Supply Cut Flowers during Spring and Summer. Burbank's Shasta Daisies Divisions of selected stock; extra strong, \$4.00 per 100; \$39.00 per 1000. 2nd size, \$2.50 per 100; \$16.00 per 1000.

Rudbeckia (Golden Glow). Strong divisions; \$3.00 per 100; \$20.00 per 1000. Achillea The Pearl. Clumps, \$2.50 per 100; \$15.00 per 1000.

Delphinium Hybridum fl. pl. Colors, all shades from sky blue to dark purple, strong divisions, \$5.00 per 100.

Delphinium Hybrid, fl. pl. Frau Emma Metzger, the best of all Delphiniums for cutting; color, sky blue tinted silvery rose; a good keeper. Plants from cold frames, from last years sowing. \$1.50 per doz.; \$10.00 per 100.

Delphinium Formosum, \$5.00 per 100. Chinenais, \$5.00 per 100.

Pyrethrum Roseum Hybrid Grandiflorum. Seed from Kelway's Prize Collection. One-year-old clumps, \$1.50 per doz.; \$7.00 per 100. Cash or satisfactory reference with order.

WM. A. FINGER, Hicksville, L. I., N. Y. Mention the Florists' Exchange when writing.

ROSES

BRIDE and BRIDESMAID, \$9.00 per 100; \$25.00 per 1000. AMERICAN BEAUTY, \$5.00 per 100; \$15.00 per 1000. Clean, healthy stock, from 2 1/2 in. pots. Sample on request.

STOCKTON & HOWE, Princeton, N. J. Mention the Florists' Exchange when writing.

ROSES

Marie Van Houtte Maman Cochet White Cochet Yellow Cochet Hermoosa Marechal Niel Meteor Climbing Meteor Burbank Clothilde Soupert Etolie de Lyon Ivory Golden Gate Bride Bridesmaid Duchesse de Brabant Bon Silene Agrippina Pillar of Gold Solfaterre Gruss an Tapitz Marie Guillott F. Kruger Perle des Jardins Mme. Welch Safrano Lamarque White La France Striped La France Climbing Wootton Duchess of Albany Helen Gould Papa Gontier Chatenay Folkstone Media Antoine Rivoire Malmeson Clara Watson From 2 1/2 in. pots, clean, healthy stock; packed light and free; satisfaction guaranteed. Terms Cash, please.

Do not send personal checks. Price \$2.50 per 100; \$20.00 per 1000. R. H. MURPHEY & SON, Urbana, Ohio Mention the Florists' Exchange when writing.

Grafted ROSE Plants

ON English stock, in 2 1/2 in. pots, Bride, Bridesmaid, Golden Gate, \$100.00 per 1000. Liberty, \$12.00 per 100; 3 in. pots, \$15.00 per 100.

OWN ROOT STOCK

Bride, Bridesmaid, Golden Gate, in 3 in. pots, \$35.00 per 1000. All in good condition. Write for sample. Baby Ramblers, grafted, in 5 in. pots; in bud and bloom, \$5.00 per doz.; 2 1/2 in. stock, grafted, \$30.00 per 100.

CHRYSANTHEMUMS

Dr. Enguehard, Mrs. T. W. Pockett, Cheltoni, Mrs. O. J. Salter. Transplanted cuttings from soil, \$5.00 per 100. Rooted cuttings from sand, \$4.00 per 100. Wm. Duckham, Alice Byron, Goldmine, Carrington, Yellow Jones, Yellow Eaton, A. J. Balfour, Merry Christmas, W. Bonnafton. Transplanted cuttings from soil, \$4.00 per 100. Rooted cuttings from sand, \$3.00 per 100. Mutual Friend, Nellie Pickett, G. S. Kalb, Bergman, Mrs. J. Jones, Mrs. H. Robinson, Eaton, White Ivory, Polly Rose, McArthur, Whildia, Halliday, Bonnafton, Marion Henderson, Appleton, Golden Wedding, W. H. Lincoln, Mrs. Chamberlain, Pink Ivory, J. K. Shaw, Maud Dean, President Smith, Helen Bloodgood, Glory of the Pacific, The Harriot, Intensity, Black Hawk. Transplanted cuttings from soil, \$2.00 per 100. Rooted cuttings from sand, \$1.50 per 100.

JAMES E. BEACH, 2019 Park Avenue, BRIDGEPORT, CONN. Mention the Florists' Exchange when writing.



The rose grower will now begin to think of the next season; and while there is not much to select from, a few plants of the newer varieties should be tried on all establishments. If all growers made a practice of trying, if only a dozen of the more promising sorts, it would at once stimulate an interest and a desire for something out of the ordinary.

On the large establishments, where flowers must be had the year round, the work of benching is already well under way, but for general purposes it is best to plant in June or July, as roses will sell better at this time of the year than they will in August and September. The plants should, therefore, receive all the care they require. At this time mildew is the worst enemy the rose-grower has to contend with. The changes in temperature are frequently very sudden, and the grower should always be on the alert, as a bad dose of mildew renders the stock almost valueless. Houses heated by steam can be easily kept clear of this pest by painting the pipes with sulphur; but where hot water is used for heating this would be useless, as the pipes cannot get hot enough for the sulphur to give off any fumes. In this latter case it is best to vaporize a small quantity of the sulphur by means of an oil stove. Great care must, however, be taken that the sulphur does not get afire, as burning sulphur fumes are death to all life, both plant and animal.

From now on watering is merely a matter of keeping the beds wet, which means a liberal use of the hose almost every day. But feeding is what the plants want, and liquid manure should be applied very liberally—at least twice a week.

Keep the plants disbudded and as cool as possible if you wish to retain the size of the buds. Weeds will start and grow very rapidly; these should be kept down, as they form a harbor for that tireless mite, red spider.

The young plants should now be in four-inch pots for June planting, and making a strong, healthy growth. Syringe them as often as possible, and remove the buds when of the size of a pea, cutting off at least one leaf with the bud. If the plants are very large, it would pay to reset them. Allow at least an inch space between the pots; this will permit of a freer circulation of air and the plants will not lose their lower leaves so readily. PENN.

BRIDE and BRIDESMAID FINE STOCK.

Propagated for grower's own use; Decided to carry over old stock. 2 1/2 in. pots, \$3.00 per 100.

MARIE LOUISE VIOLETS
Fall Struck Cuttings, \$10.00 per 1000.

GEO. B. HART

21 Stone St. Rochester, N. Y.

Mention the Florists' Exchange when writing.

MME. CHATENAY } 3 inch
IVORY } pots,
GOLDEN GATE } \$5.00
per 100.

S. J. REUTER, Westerly, R. I.
Mention the Florists' Exchange when writing.

Fine Bridesmaid Roses

2,000 fine Bridesmaid and Bride, from 3 1/2 inch pots, \$6.00 per 100.

CASH WITH ORDER.

J. HORAN & SON, Bridgeport, Conn.

Mention the Florists' Exchange when writing.

ROSES.

La Detroit, 3 in.	Per 100	\$8.00
American Beauty, 3 in.		6.00
Perle, 3 in.		5.00
Mme. Chatensy, 3 in.		5.00
Bride, 3 in.		4.00
Bridesmaid, 3 in.		4.00
Sunrise, 3 in.		4.00

Geraniums: R. O. of Nutt, Heteranthe, Poitevine, Hill and Gen. Grant, \$1.25 per 100; \$10.00 per 1000. Same from 2 1/2 in., \$2.00 per 100; \$18.00 per 1000. Petunias, best strains, \$2.00 per 100; \$18.00 per 1000. Privet, 2 and 3 years, \$3.00 per 100; \$18.00 per 1000. Rose of Sharon, \$9.00 per 100. Cash please. **JAMES AMBACHER, West End, N. J.**

Mention the Florists' Exchange when writing.

ROSES 2 Years Old 4-inch Pots

Yellow Cochet, Crimson Rambler, Dorothy Perkins, \$10.00 per 100, cash with order.

The following 2-year-old Roses, \$8.00 per 100, Pres. Cleveland, Universal Favorite, Papa Gonthier, Christine de Nove, Yellow Scourge, Triumph Perpetue, Mary Washington, Mrs. De Graw, Bouquet of Gold Agrippina, Jersey Beauty, Snowflake, Bride, Bridesmaid, Baltimore Belle, Praline Queen, Marie Van Haute, Climbing Matmaleson, Olivet, White Pet, Climbing Bridesmaid, Empress of China, Folkstone, Jos. Schwartz, Brabant, Marie Guillot, The Queen, Golden Gate, Golden Rambler, Coquette de Lyon, White and Pink Rambler.

ROSES in 2 in. pots, \$2.00 per 100; \$15.00 per 1000; upward of forty varieties, white, pink, yellow and red.

Moon Vines, 4 in., \$10.00 per 100. White 2 1/2 in. stock, \$3.00 per 100, Vincas, 3 in., \$3.50 per 100. A general line of miscellaneous soft stock, \$2.50 per 100.

THE NATIONAL PLANT CO., Dayton, Ohio
Mention the Florists' Exchange when writing.

KAISERIN

Strong, Healthy Plants

3 in. pots - \$7.00 per 100
2 1/2 in. pots - 5.00 per 100

THE LEO NIESSEN CO.
1217 Arch Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

ROSES

Grafted Bride and Bridesmaid. Good stock. Write for prices.

Sheep Manure

Pulverized. Free from all Adulteration. In Bag, \$18.00 per Ton. Special price on car load lots in bulk.

ROBERT SIMPSON
Clifton, N. J.

Mention the Florists' Exchange when writing.

KAISERIN

2 1/2 in. pots; \$3.00 per 100, \$25.00 per 1000.

VIOLET CLUMPS

"LADY CAMPBELL"
\$5.90 per 100; \$45.00 per 1000.

ASTERS

Strong, Transplanted Plants, 50c. per 100; from 2 in. pots, \$1.50 per 100.

Queen of the Market— in white
Peony Perfection— in all separate colors
Ostrich Feather— in mixed colors

S. S. PENNOCK

THE Wholesale Florist of PHILADELPHIA
Mention the Florists' Exchange when writing.

C. R. HILLS, GRAND RAPIDS, MICH.

Little Gem Alyssum, in bud, 2 1/2 in.	Per 100	\$2.00
Cobaea Scandens, 3 in. strong.		3.50
Forget-Me-Not, Everblooming, 2 1/2 in.		2.00
Cuphea, 2 1/2 in.		2.00
German Ivy, 2 1/2 in.		2.00
Nicotiana glauca, 2 1/2 in.		\$1.00 per doz.

WATCH FOR OTHER OFFERINGS.

Mention the Florists' Exchange when writing.

ROOTED CUTTINGS

Strong Stock to Make Plants Quick prepaid per 100.

Ageratum, Gurney, 50c., \$4.00 per 1000. Coleus, best bedders, 60c., \$5.00 per 1000. Salvia, Bonfire, Splendens, 90c., \$8.00 per 1000. Giant Marguerite Daisy, white, \$1.00. Vinca Var., 90c. per 100. Seedlings, Verbena, Dreer's Giant Mixed, Salvia, Bonfire and Splendens, nice short stout little plants, 25c. per 100, mail 10c. extra. Alternanthera, best red 2 in. 1 1/2c. Alyssum, double giant, 2 in., 1 1/2c. Cash.

BYER FLORAL CO., Shippensburg, Pa.

Mention the Florists' Exchange when writing.

ASTER PLANTS.

Bentley's Famous Asters, extra fine stock, from flats, \$1.00 per 100, \$8.00 per 1000; from 2 1/2 in. pots, \$2.00 per 100, \$17.50 per 1000. Hohenzollern, Carleon's, American Branching and Queen of the Market, from flats, 60c. per 100, \$5.00 per 1000; from 2 1/2 in. pots, \$1.50 per 100, \$12.50 per 1000. Will have Prihuales for July delivery. Chinese Obconics, Forbesii and Buttercup, 2 1/2 in., \$1.00. Write

ROSES

From 2 1/2 inch pots
Especially fine lot of Hybrid Perpetuals, Climbers and Ramblers.
Send for price list. Use printed stationery. We send it only to the trade.

JACKSON & PERKINS CO. NEWARK, NEW YORK
Mention the Florists' Exchange when writing.

Dwarf or "Baby" Crimson Rambler

(Mme. Norbert Levavasseur)

We have pleasure in offering a splendid stock of this charming and very useful rose from 2-inch pots, well rooted and ready for a shift into 3-inch pots. Many are of the opinion that this is going to be a very valuable pot plant for Christmas Sales and now is the time to get the stock of it for that purpose. Price, plants from 2-inch pots, \$2.00 per doz.; \$15.00 per 100.

PETER HENDERSON & CO.

35 CORTLANDT ST., NEW YORK

Mention the Florists' Exchange when writing.

READY NOW

Gen. MacArthur

The most prolific flowering Red Rose in the market to-day. Grows finely in same temperature as Bride or Bridesmaid, and will produce fully as many first-class flowers as either.

2 1/2 in. pot plants, own roots, \$10.00 per 100; \$80.00 per 1000.

Strong grafted stock, from 3 in. pots, \$12.00 per 100.

THE STORRS & HARRISON CO., Painesville, O.

Mention the Florists' Exchange when writing.

60,000 GRAFTED ROSES For Forcing

Extra fine healthy plants, free from mildew.

LIBERTY, Rose pots, \$15.00 per 100; 3 1/2 inch pots, \$18.00 per 100

BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN

Rose pots, \$10.00 per 100; \$95.00 per 1000

3 1/2 in. pots, \$15.00 per 100; \$145.00 per 1000

500,000 VERBENAS 60 Varieties

Perfectly healthy, in bud and bloom

2 1/2 in. pots, our selection, \$2.50 per 100; \$20.00 per 1000

2 1/2 in. pots, purchaser's selection, \$3.00 per 100; \$25.00 per 1000

COLEUS

VERSCHAFFELTII, GOLDEN BEDDER, FIREBRAND

Rooted Cuttings, 75c. per 100; \$6.00 per 1000

SEND FOR PRICE LIST

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsman and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 607

News of the Week in Brief.

John Calder, florist, Kalamazoo, Mich., has disposed of his business.

Mr. Hoskins, of the firm of Hoskins & Giles, Reading, Pa., died on April 28.

A receiver has been appointed for the Surrey Seed Company, Limited, of Redhill, England.

The Prince of Naples rose, pink in color, is very successfully grown by a St. Paul florist.

The Department of Agriculture desires information on the results of experiments in bulb growing in the United States.

Spring bedding plants and some novelties will be shown at the meeting of the New York Florists' Club on Monday evening, May 8.

The Horticultural Building at the World's Fair grounds, St. Louis, was among the structures blown down during a recent wind storm there.

During the present strike of teamsters in Chicago several of the consignors of cut flowers to that city are now sending their stock to St. Louis.

Our obituary column this week contains notices of the deaths of Frank A. Pierson, Cromwell, Conn.; James Rough, Boston, Mass.; Henry Grebe, Jamaica, L. I., and others.

The Horticultural Society of New York will hold an exhibition in the Museum Building of the Bronx Park Botanical Garden Wednesday and Thursday, May 10 and 11. The usual \$50 prize for the "best horticultural novelty" is this year omitted from the schedule.

The teamsters' strike in Chicago is causing great inconvenience in the handling of flowers in that city. Only flowers for funerals are allowed to pass the "picket lines," and then on condition that the wagons are being driven by men who were union drivers. Much of the stock received has been handled at the depots and carried to the different wholesale stores.

The Boston Globe of Sunday, April 30, 1905, contains a portrait and "write-up" of William H. Elliott, Brighton, Mass. It is said Mr. Elliott introduced his great specialty, Asparagus plumosus, into the American market in 1884. His establishment at Brighton embraces some 20 houses, nine of which are devoted to this plant, the remainder mostly to roses. Then, in addition, Mr. Elliott recently purchased 200 acres of ground at Madbury, N. H., on which he has erected a rose house 812 feet in length. Twenty years ago Mr. Elliott did his own work with but little employed assistance; now he employs an average of 50 men throughout the year. He is one of the directors of the S. A. F. O. H., and is still "several years on the sunny side of the half century mark."



Frank A. Pierson.

Frank Allison Pierson died at his home in Cromwell, Conn., Saturday, April 29, aged 28 years, of cerebro-spinal meningitis, after an illness of only one week. He was the eldest son of A. N. Pierson, the well-known florist, and had been in business for himself for several years. He had already established a good reputation as one of the leading growers of bedding plants in the country. His business had grown so during the past year that he had arranged for doubling his plant this Summer, and much of the material for the new building was already on the ground.

Mr. Pierson was married, about three years ago, to Miss Ruth Coe, of the same town, who, with a young son, survives him. Last Fall Mr. Pierson was elected to the State Legislature, and had proved an active and useful member of that body. He was a thirty-second degree Mason, a member of Cyrene Commandery, K. T., of Middletown, Conn., and Sphinx Temple and Mystic Shrine, of Hartford.

The deceased was a lover of nature, and an enthusiastic sportsman, owning a camp in the Maine woods, where he spent much time every year. He was a



THE LATE FRANK A. PIERSON

practical electrician, and was noted in his section of the country as an amateur photographer, some of his work in this line being unusually good. Many of his pictures, taken on his father's plant, have appeared from time to time in The Florists' Exchange. The funeral, which was private, occurred at the house Tuesday afternoon, at two o'clock. The interment was in Miner Cemetery, Westfield, Conn. Here Cyrene Commandery took charge of the exercises, and the usual impressive Masonic service was conducted, before a large concourse of people.

James Rough.

James Rough, one of Boston's oldest established florists, died at his home in Roxbury, Mass., Tuesday night, May 2, of pneumonia. Mr. Rough was taken sick on the Saturday preceding Easter, during the busiest rush of the business, and had to be taken home during the early evening. The malady developed into pneumonia, and although he made a brave fight he succumbed to the disease. He was 58 years of age and was born in Stirling, Scotland. He came to America about thirty-four years ago, first finding employment on the estate of Mr. J. L. Gardner, Brookline. Subsequently he worked for Mr. Greenlaw, a well-known florist in those days. He started in business for himself about twenty-eight years ago and conducted the store at 1559 Washington street until about three years ago, when he removed to 248 Huntington avenue in the Back Bay district.

Mr. Rough had a large acquaintance in the trade, and was known as an honest, straightforward, though shrewd business man. He will be greatly missed among the flower lovers of Boston, for he had a flourishing establishment. He is survived by three grown children—James, Jr., who is a member of the firm, and Mary J. and Nellie S., who have had charge of their home since the death of their mother. The funeral was held Friday, May 5.

J. W. DUNCAN.

Henry Grebe.

Henry Grebe, of Jamaica, L. I., whose sad death was referred to in the New York letter in last week's issue, was born at Darmstadt, Germany, 53 years ago. He there learned the florist's business, and had a flourishing trade. About 20 years ago he came to this country, and followed his profession, although the ambition of his life had been machinery. His leisure time was spent in building engines, etc., of his own invention, for his son. He was of a very nervous disposition, and his health had been falling for a long time. Lately he was subject to fits of melancholy and took his life in a moment of mental depression, about midnight, April 20, for which act his physician says his nerves alone were responsible. He left a widow, who is a sister of W. C. Krick, of Brooklyn, N. Y., and two sons. He had a pleasant and happy home, and there was no reason for his act, as he was in good circumstances and was making extensive alterations at the time of his death.

Thomas Capers.

Thomas Capers, florist, Newburyport, Mass., died at the Anna Jaques Hospital April 29, aged about 67 years. He had been taken to that institution last week and operated on for the removal of gall stones.

Mr. Capers was a native of England and while a young man came to this country. He had lived in Newburyport about thirty years, and practically all of the time had been employed as gardener and florist for the Wheelwright family, afterward starting in business. Quiet, unobtrusive, yet steadfast, he performed to the best of his ability the duties which each day brought and has left a record above reproach.

He leaves a widow and one son, William Capers, of Malden.

Joseph Zimmerman.

Joseph Zimmerman, a florist, formerly of Pittsburg, Pa., was drowned last week at California Beach. Mr. Zimmerman worked for L. I. Neff for several years and then started in business for himself, continuing until a short time ago, when he went to California and worked for the Ocean Park Floral Company.

E. C. R.

Arthur E. Armstrong.

Arthur E. Armstrong, aged 91, died at his home in Milford, O., early Sunday morning, April 23. Ten years ago he was a well-known florist in Cincinnati, and was the oldest flower merchant in this vicinity. Mr. Armstrong, who was an honorary member of the board of directors of the Cincinnati Chamber of Commerce, is survived by three daughters.

Warren Fenno.

Warren Fenno, a prominent member of the Massachusetts Horticultural Society, and chairman of the fruit committee, died at his home at Revere, Mass., on April 27, from a complication of diseases.

J. W. D.

Henry Eckford Testimonial.

Editor Florists' Exchange:

It is a pleasure, indeed, to learn that you are actively co-operating in this laudable endeavor to do honor to a great man, and it emphasizes again that your nation is ever willing to do credit to one who is essentially deserving, no matter from what land he may come. Henry Eckford has done a grand life's work and it is the desire now that he should have some public recognition spread over the widest possible representation. I thank you for your practical assistance.

It is impossible for me to say definitely how long the fund will remain open, but it most certainly will not be closed until the end of August, and probably not until the middle of September, as I desire to take advantage of the great Scottish show in that month.

I assure you of my heartiest appreciation of your spontaneous kindness and hope that you will meet with a fine response.

HORACE J. WRIGHT, Secy.

National Sweet Pea Society, England.

[It may be opportune to repeat that the friends of Mr. Eckford in England have made this a one shilling (25c.) contribution, so that the response may be as general as possible. A similar amount contributed by all lovers and growers of the sweet pea in America would help swell the fund, and be as greatly appreciated as a larger sum. We hope to see the United States well represented in this laudable effort to honor a worthy gardener, who has done most efficient work in his different lines of endeavor.

All contributions will be duly acknowledged here, as received.—Ed.]

The Eckford Testimonial.

Subscriptions acknowledged.

The Florists' Exchange.....\$10
Burpee, W. Atlee, & Co..... 10

Society of American Florists and Ornamental Horticulturists.

Growers of and dealers in American grown bulbs are notified that the usual accommodations will be extended to them free of charge for the display of American grown bulbs at the convention to be held in Washington, D. C., August 15-18, 1905. WM. J. STEWART, Secretary.

OUR READERS' VIEWS

Rosarians vs. Carnationists.

Editor Florists' Exchange:

Mr. C. W. Ward's rather severe criticism of the rose men would seem, on first thought, to be in a measure deserved, as they have not apparently rallied to the support of their special society as have the carnation men. It must not be inferred from this, however, that they are less progressive than are the others who have chosen a flower that responds readily to the efforts of hybridists. Had the carnationists to grow fifteen or twenty thousand seedlings for four or more years before being sure that they had anything that was an improvement over existing varieties, and without meanwhile realizing any income from them, I venture the assertion that they would not respond so readily to the call for exhibiting.

The raising of seedling roses is a very uncertain, as well as an expensive undertaking, and there are but few in the business that can afford to practice it; notwithstanding this, there is evidence that it is being carefully pursued. When the results justify their efforts, the rose men will be found shoulder to shoulder with the foremost of the carnation men—not with any special conceit, but with the quiet dignity of progressive rosarians. At the same time, they will give full credit to their brothers, the carnationists, for all they have done for their favorite flower.

ALEXANDER MONTGOMERY.

Editor Florists' Exchange:

As a rose grower and also a carnation grower, it seems to me that the assumption of the men who grow carnations alone is not well taken, for the reason that although they may seem to be more progressive, and to advertise themselves more than the rose men, they have to do so in order to make their business pay, as the cut bloom section of their business pays but poorly; and, in order to make their business pay, they must largely depend on marketing large numbers of cuttings, and also introduce yearly new varieties, which may or may not be worth anything. Most large rose establishments, who grow for cut flowers only, have all they can do without injuring their own stock to produce enough for their own needs. If I could, without bringing the names of rose firms into this article, I would name a number of the most progressive and largest who absolutely refuse to sell any rose stock whatsoever of the standard varieties. Of course, this does not apply to new introductions which they have been fortunate enough to produce themselves, or to buy so as to give them the control of the stock.

It is conceded, I believe, by all gardeners that the acme of gardening is to be able to grow roses to perfection. This, I think, is shown by the wages paid for such work, and also by the type of men who have been successful in growing roses, and who have made themselves known throughout the horticultural world. For instance, Alex. Montgomery, the present president of the American Rose Society; John N. May, L. M. Noe, the late John Henderson, Ernst Asmus, McMahon, of Seabright; Farenwald and Scott, of Pennsylvania, and hundreds of others whom I could mention, and who are as well known, and cannot be called unprogressive. Among others who have made a national reputation as producers of new varieties from seed, I will give just three names—Cook, of Baltimore; E. G. Hill, of Indiana, and Breitmeyer, of Detroit. There are others that I might name, but I only wish to give these as an instance of some of the men who are great rosarians.

Coming to another point, regarding the non-progressiveness of the rose growers, I would like to go back to ancient history relative to the shows held some years ago by the New York Florists' Club in the Madison Square Garden. These shows have never been surpassed in any way in the city of New York. The men who, at that time, lent their brains, money, influence, and time to those shows were mostly rosarians, and, at that time, they not only grew roses, but chrysanthemums and carnations. The rosarians were the first to see the possibilities of the chrysanthemum as a Fall flower, and the first to bring it to the notice of the public in a form and cultivation which had never before been seen in this country. At one show alone, there were taken out of the market flowers which, if they had been sold, would have netted at the very least ten thousand dollars. This is very conservative.

To conclude, I would say that the whole question seems to me one that is hardly to be discussed, because most of the progressive men in the business grow more than carnations and roses alone. In other words, those who are interested in horticulture are interested in it for two reasons—one because they love the beauty of nature, and the other is that they are pursuing it as a business proposition; and I think if the matter is looked at in a broad way, you will find that both the rose growers and the carnationists are looking after their own interests to their best ability.

I would say one word more, and that is: In these days of competition, all lines of horticulture are becoming more specialized, and I think a discussion of this kind, although bringing in matters of interest to all of us, should not take on anything which would create any ill-feeling between growers in different lines of cultivation.

JOHN H. TAYLOR.

Bayside, N. Y.

Information Wanted on American Bulb Growing.

Editor Florists' Exchange:

The Department of Agriculture is much interested in the study of American bulb growing, and desires to secure all possible information on the subject. We are already in touch with all the active bulb growers, but would be very thankful for any information that may be furnished us in regard to experiments on the growing of bulbs of any kind in America, whether such experiments have proven successful or not; and we should like to enter into correspondence with all persons who have conducted such experiments.

A. J. PIETERS,
Botanist in Charge.

Department of Agriculture, Washington.

Impressions of Canadian Horticulture.

Editor Florists' Exchange:

In your April 22 number there is an article on the above subject which I cannot allow to pass without answering. I am a great believer in allowing a man the fullest liberty of thought, but when thought is given expression to and sent out to the world, it then becomes public property, and its power for good or harm should be taken notice of. It is for this reason I wish to put right the wrong done to Canadian horticulture by the writer of the article in question.

In the first place, I consider him a very unfit person to make such statements. If we are to be judged, let it be by one capable of taking up the place of judge. By his own confession he is only four months in this country, and has seen only a very few places at that, to my certain knowledge. He would have done better had he waited and first ascertained that the conditions and requirements of Canada are very different from those of the old world; that the men in the profession in Canada are keeping up to all the demands of the country, and adopting all up-to-date methods, up-to-date structures, which are far ahead of anything in England, or Scotland, or France, that I have seen. Remember, I am not now talking about size. I am talking about up-to-date structures and methods, and I defy the newcomer to truthfully contradict this statement. Of course, there are plants we do not grow here that are grown by the thousands over on the other side. Why do we not grow them? Simply because we can buy them cheaper than we could grow them. This is pure business, and others are of no use in a business point of view. And when this young man knows a little more he will know that in Canada there are more than one establishment larger than any in the old world for growing the kind of flowers required by the country. Where in the old world can you meet with a place like the Dale Estate of Brampton, Ont., for the purpose of growing roses and carnations? Am I not safe in saying that no four places put together in England can be compared with it? And there are other establishments in Canada which this newcomer has never seen and knows nothing about. Truly his ignorance must be bliss.

But it is the old story of men coming from the old country. They come to teach men who were taught in the old country, and who since have learned new ideas in this new country which have been forced upon them by surrounding influence and necessities, compelling a forward movement from the hard beaten track of the narrow-minded, self-complacent old country way.

And, then, he tells about the "Canadian's capabilities." One would almost think that he was the only Englishman in Canada, and he only arrived a few days ago. We are too "impatient;" we want "hustlers," and he says that a hustler is a "bungler." Now such statements may come well from one who knows nothing of what he has undertaken to talk about. Is it not a fact that perfect knowledge of a thing enables one to perform that thing quickly. Is it not a fact that in all well conducted establishments other than ours, men are expected and compelled to produce a certain amount of work for a certain amount of pay? Half of the men who come out from the old world are not worth half the wages they receive for the first year, hence their dislike to the term, "hustler." It is not true that all hustlers are bunglers; but it is true that over one half of the slow ones are bunglers and humbugs.

Then as to this young man's "idealism." Grand! Every man should form high ideals and strive to attain them. But what about materialism, young man? A hundred cents on the dollar. This is an ideal every honest man should keep before him, both in work and pay. Men who build castles in the air and live in the atmosphere of fancy better come down to hard Mother Earth, and grasp the fact God has placed up against every life. "Whatsoever thy hand finds to do, do it with thy might."

We are also accused of following the United States rather than "Great Britain." Should not this be expected from men with their eyes open. We do not follow them because they are Americans, but because of their better and more improved methods in growing. This does not make us less British, but better Canadians, who are willing to cope with our sharp, intelligent neighbors, seeing what is an improvement and adopting the same to our own advantage. And I notice with pleasure that the man who has produced the highest priced carnations in Covent Garden Market, London, England, has adopted the so-called American way of growing them the past year.

"Comparisons are odious;" yes, very. Not only so,

but "a little knowledge is a very dangerous thing." And, I think, before anyone undertakes to give his opinions to the world, he should know the whole truth and nothing but the truth in regard to "Canadian Horticulture."

S. S. BAIN.

Montreal, Canada.

The Government and the Nursery Business.

Editor Florists' Exchange:

As a Long Island nurseryman, having all my possessions invested in a nursery and nursery stock, I have observed the entering wedge into an interference by the United States Government with the private nursery business, such as has been so long pursued by the Government with respect to the seedsmen's business. What I refer to is a statement in the last number of The Florists' Exchange that the Secretary of Agriculture was looking for a nurseryman, at a salary of \$1,200 a year. The question arises, what is this nurseryman to do? The Secretary of Agriculture, in his annual report of 1903, stated that the employees of the Department of Agriculture covered one hundred and thirty different occupations, and aggregated four thousand two hundred on the pay roll; and it is likely that, at the present day, the number may be considerably over five thousand.

But whatever it may be, the addition of one more man is immaterial, so far as the addition of one man goes, but will it stop there? This one now wanted is a head nurseryman, and, without doubt, a man worth \$1,200 can be had. Perhaps a man worth four times that much would earn his salary, but what will be his duties? What will be his charge? What the party is to do, I can only conjecture. Possibly to superintend the establishment of a Government nursery at Washington, where will be assembled nursery stock from all parts of the world, such as will stand the climate of the District; and this nursery might, in time, and probably will, be extended to be as big as any nursery in the country, and develop into a similar outrageous governmental competition with the nursery trade as there now exists with the seed trade.

[The item stated that the nurseryman was wanted for the Philippines.—Ed.]

The Department of Agriculture is attempting to do the whole thing, to cover the whole range of horticultural science. In confirmation of this, see the list of so-called "professors," as published in the department report: Pomologists, mycologists, brochemists, nutritionologists, medico-clematologists, physiographers, sylviculturists, riverologists, frank counters, agrostologists, pharmacologists, physiologists, zoologists, thermologists, meteorologists, biologists, stomatologists, seedologists, cerealists, dendro-chemists, pathologists, entomologists, fungicidists, bacterists, pasteurizists, beetologists, cottonologists.

This list would be laughable were it not such a serious matter, a list of ever-increasing officeholders under the civil service, a list never to be gotten rid of, for none of them die, and few resign.

NURSERYMAN.

"A CONSTANT READER" is respectfully reminded that The Florists' Exchange does not publish anonymous communications. If he will kindly furnish his name and address, also give the source of his information, his letter will receive attention.

Department of Agriculture Wants a Gardener.

The U. S. Civil Service Commission announces an examination on May 24, to secure eligibles from which to make certification to fill a vacancy in the position of gardener, experienced in growing plants under glass, at \$750 per annum, in the Bureau of Plant Industry, Department of Agriculture, and vacancies as they may occur in any branch of the service requiring similar qualifications. Only persons who are thoroughly experienced in handling plants under glass should apply for this examination. The examination will consist of the subjects mentioned below, weighted as indicated: Age, 20; physical condition, 20; experience, 60. Age limit, 20 years or over. This examination is open to all citizens of the United States who comply with the requirements. Applicants should at once apply to the United States Civil Service Commission, Washington, D. C., for application form 1093. No application will be accepted unless properly executed and filed, in complete form, with the commission at Washington prior to the hour of closing business on May 24, 1905. In applying for this examination the exact title should be used.

Joseph Jefferson and Gardening.

The deceased veteran actor was an enthusiastic lover of flowers. Not many months before his death, says a writer in the Outlook, he advised one of his friends, as soon as he passed seventy, to cultivate a garden. "The saddest thing in old age," he said, with a smile, as if nothing were wholly sad, "is the absence of expectation. You no longer look forward to things. Now, a garden," he added, with whimsical humor, "is all expectation; therefore, I have become a devoted gardener."

AMONG THE GROWERS.

Conard & Jones Company, West Grove, Pa.

This firm is, perhaps, not so well known in the trade, because its business is chiefly a mail one. But the concern is doing a grand work in trying out and introducing new things all the time, mostly in roses and cannas. How many florists are there who often ask where they could secure a few hundred plants of roses of such varieties as *Perle des Jardins*, *Bon Silene*, *Sunrise*, *Papa Gontier*, etc.? At this place these plants are always to be found; in fact, most of the old-timers are here, and in good, healthy, sturdy stock.

On reaching this establishment we enter a shed, 20x210 feet. There are 21 houses on the two sides of this shed. In the shed itself we see box-making going on; then the potting of young roses; and trimming and potting canna roots. The shed opens into the shipping department, to the right is the mailing department, to the left the express department. Long benches hold the orders as they are picked out, the whole department being arranged with excellent system, and all the work done with neatness and despatch.

Of the 21 houses three are 15x100 feet, others 18x100 feet. All those on the left of the shed as you enter are 18x120 feet, heated by steam, and filled to repletion with plants for shipping and mailing, and stock for planting out. No time is lost; for, as benches are emptied by the orders, cuttings from the propagating bench are potted up to grow on. Just now all available space is used for cannas.

At the beginning of the season there were 600,000 young roses in three-inch pots on this place, besides an enormous quantity of soft-wooded stock such as is used in the mail trade. In going around we saw every variety of rose, new and old. Of novelties there are the Philadelphia Rambler in all sizes, a great improvement over the Crimson Rambler; the new hybrid rugosas, Sir Thomas Lipton and New Century, both of great promise; a large stock of the new Baby Rambler rose in three-inch pots. Some 500 stock plants of this rose arrived early in January; now there are 20,000 plants on the place, besides 5,000 cuttings in the bench. One bench contains a new hardy perpetual blooming climber being developed for next season; another, 40,000 well-rooted cuttings of a novelty grape. A long bench contains started plants of novelty cannas, many of them of crosses never before attempted. In the next house we saw a fine stock of the new French rose, *Etoile de France*, in three-inch pots. This is considered a grand acquisition, and should be watched by cut flower men. Another novelty is a new striped *Reine Marie Henrietta*.

In cannas we saw a good stock of the firm's novelties, Louisiana and Wyoming, of the orchid-flowered type; also a fine lot of hybrid canna seedlings.

In another house are 200,000 rooted cuttings of hardy shrubs for planting out; 20,000 rooted cuttings of *Honeysuckle Heckrotti*, and 40,000 of *Berberis Thunbergii*. Out in the field were 50,000 *Crimson Rambler* roses of various ages, and 250,000 hardy shrubs in one, two and three-year-old plants. All this stock is in perfect condition, and reflects great credit on Antoine Wintzer, the manager of this department.

Half a mile nearer West Grove are the main offices of the firm. Here we met Alfred Conard, the venerable head of the concern, still ambitious and working at his desk; Morris Jones, the treasurer, and Mr. Pyle, the secretary, both busy with the enormous mail, and around them an army of clerks. The office is very systematically arranged with card systems, etc. In another part of this building is the flower seed and bulb department, the whole well arranged and everything up-to-date.

DAVID RUST.

Half-Hardy Climbers.

There is always room to be found among the hardy permanent wall plants for a few of the above class, and some of them are content with so comparatively little space as to cause no inconvenience whatever to them. In fact, a few of the slender annuals, as *Mina lobata* and *Mina coccinea*, would do planted at the foot of a Spring-flowering plant, such as *Cydonia japonica*, and allowed to ramble over it at will, thus forming an embellishment after its own blossoms have perished. *Mina coccinea* is of less rampant growth than *M. lobata*, and would suit the purpose admirably. True, its flowers are of short duration, but they succeed one another so quickly that there is always a fair sprinkling seen on the plant.

A plant of sterling worth for a trellis is *Manettia luteo-rubra* (bicolor). It hails from Brazil, and is often classed as a hothouse climber; but if cuttings are rooted in the Fall, and taken care of during Winter, then when all danger of frost is over are planted out, they will do better than when grown under glass where thrips and red spider attack it freely. The flowers, which are urn-shaped, are of a vivid scarlet and yellow, a very conspicuous combination of color. They are borne freely in the axils of the leaves.

Another Brazilian plant more often seen as a roof or pillar climber in a warm conservatory than in the open air as a Summer trellis plant, is *Stigmaphyllon ciliatum*. Its blossoms are borne in panicles of clear yellow flowers, slightly flimbriated; and so strongly does it bear resemblance to the flowers of *Oncidium varicosum* as to merit the name of "orchid vine." The writer, when visiting the nursery of Henry A. Dreer, Riverton, N. J., last Summer, was agreeably surprised to see this most interesting plant outside, and flowering nicely.

Two meritorious plants of Australian origin are *Sollya heterophylla* and *Hibbertia dentata*; the former often called the blue-bell creeper, on account of its drooping blue flowers. The latter has foliage of a deep bronze color, with large potentilla-like flowers of bright yellow. Both are evergreen, and well worthy of a trial. A little peat or leaf soil should be added to the soil when planting.

A slender but quick-growing trellis plant is *Rhodochiton volubile*, from Mexico. It bears very singular flowers in great numbers. The calyx is of a blood-red color, while the corolla is nearly black. This plant is easily raised from seed every year, and requires much the same treatment as its near relative, *Maurandya scandens*.

One cannot omit to mention two at least of the *Tropaeolums*, for who that has seen that lovely Chilean plant, *T. speciosum*, in bloom, will soon forget it? The brilliant scarlet flowers show up most effectively against its green foliage. It is not particular with regard to aspect, providing it is planted in a cool, moist soil. *Tropaeolum canariense* will prove itself a worthy companion for the last-named, with its many pretty little yellow flowers.

Perhaps it is needless to say that all the foregoing plants should be pot grown, so that they may receive no check when planted out at the earliest opportunity.

EDWIN MATTHEWS.



LILIUM CANDIDUM

Photo by John F. Johnston

How the Bermuda Lily was Introduced Here

The Philadelphia Record, in its issue of April 18, prints the latest story of how the Bermuda lily came to be introduced into America as an article of commerce. The truth of the statements is vouched for, so that the narrative may be taken as authentic:

"In the Summer of 1880 a young man from the Bermudas who was a traveling salesman for an iron firm (and who it seems had a soul above buttons and pig iron, for he loved flowers dearly) upon one of his frequent visits to Joseph Kift, of West Chester, Pa., chanced to see a *Lilium longiflorum* in bloom. He exclaimed with delight: "Oh, there is our lily!" mistaking it for the Bermuda lily, which it closely resembled. However, upon examining it, he discovered his mistake, for he found it was neither so fragrant, nor had it so many flowers as the lily which grew on his native island. Mr. Kift was interested at once, and told him if he knew of any lily which bore more flowers than the longiflorum he should like very much to have some. So the young man promised to send him some bulbs upon his return to Bermuda, which he did, and about Christmas time the bulbs arrived. They were planted, grew readily and bore profusely, much to Mr. Kift's delight. He exhibited the lilies in Philadelphia, where they at once attracted a great deal of attention.

"In June, 1881, Joseph Kift, Jr., went on a voyage of discovery to the Bermudas, to see for himself these wonderful lilies and to procure some of the bulbs. When he arrived at the little island he found the lilies growing in the people's yards and gardens, and in the cemeteries, but so far the bulbs had never been sold.

"During Mr. Kift's stay of six weeks in Bermuda he managed by buying, bartering and begging to gather eight barrels of bulbs, with which he started for home, bringing them as flower roots and thus escaping the custom house officers.

"At first they were called the *Lilium longiflorum floribunda*, but that name was too long, so they changed it to simply the Bermuda lily. When it was first introduced it naturally created a great stir, and florists, particularly

from New York, rushed to the Bermudas and rented land to start lily farming. Since that time the people of the island have taken up the culture of the lily and made it a commercial crop till it is now the chief industry of the island."

The Making of Flower Pots.

Few men who handle plants take into consideration the process gone through in the making of the flower pots ere they reach the potting bench. Pottery is one of the most ancient of arts, but it is only in comparatively recent years that the manufacture of flower pots has been carried on to any extent in this country at least. The firm of A. H. Hews & Co., at North Cambridge, Mass., is perhaps the oldest in this line of business in the country. It was established in the year 1775, although no record of the firm having made flower pots is found until many years after that date. It was not until about thirty years ago that flower pots began to be manufactured to any extent by this firm, and the business has increased so rapidly that the daily output is now 75,000 or about one-tenth of a whole year's work of thirty years ago.

The factory and storehouses at North Cambridge comprise several large buildings. On entering the factory the first place of interest is the basement, where are situated the large kilns, seven in number, each holding an average of 40,000 pots, and where may be seen the filling, firing and baking, cooling and emptying being carried on at the same time. A kiln filled with ware will require from twenty-four to thirty-six hours to burn, consuming in that time from three to four tons of coal. About the same length of time is required to "cool off" before the kiln is ready to empty. On this floor are situated also the boiler and engine which run all the machinery, also a pump which supplies the factory with water from an artesian well nearly 200 feet deep. And, by the way, some twenty-five tons of water are used daily in mixing and working the clay. The clay-mixing machinery and rollers are also on this floor. As the clay leaves the latter it is cut into suitable sizes for the various flower pots ere it is carried to the floors above. The clay bank and grinding mill are situated at some little distance from the factory.

On reaching the floor above one finds himself confronted with thousands of pots all in the process of drying. Here also are the pot-making machines, of which there are five in operation, each operator turning out 10,000 pots daily. Only the smaller sizes of flower pots are made on these machines; the sizes from 5-inch to 12-inch are all made in molds by this firm. A diligent workman will turn out of molds about 2,000 6 or 7-inch pots daily. The drying rooms occupy a large amount of space, as the flower pots, when formed, must receive a proper drying before being baked. The two upper floors of the building are devoted to the manufacture of garden and fancy vases, jardinières, cuspidors, etc., of which large quantities are made. The smallest piece of pottery made is the little square that holds the school paint, and the largest the handsome Italian garden vase, used now so much for bay trees and such plants.

This firm has about one hundred employees at its factory, and besides the North Cambridge establishment has a large distribution warehouse in Long Island City, N. Y. The main office is situated at the factory, and here may be found Mr. McKee and Mr. Pierce, president and vice-president of the corporation, who take great pride in showing the system which they have been the means of perfecting and successfully carrying on.

All shipments of goods are made from Boston, so that little delay occurs in transportation; and so perfectly arranged have been the shipping facilities that orders amounting to as many as 100,000 flower pots are shipped on the afternoon of the day on which the order is received.

The firm of A. H. Hews & Co. has always been known as makers of good flower pots; the clay here is peculiarly adapted to the purpose, and the continual improvement making in the machinery and working facilities enable the concern to produce an article of superior quality.

JOHN W. DUNCAN.

A Remedy for the Hollyhock Fungus.

This fungus (*Puccinia malveracea*) most generally affects the plants, destroying much of their foliage just when they are coming into flower. The following remedy has been used by Messrs. Webb & Brand, at their Saffron Walden Nurseries, with the best results: To one pound of tobacco powder is added a quarter of an ounce of finely powdered sulphate of copper, well mixed; this is dusted over any part of the plant affected with the fungus, foliage or stem, every two or three weeks during the growing season, a dull, still day being chosen for the operation.—Horticultural Advertiser, England.

Lilium Candidum.

Lilium candidum, the Madonna lily, sometimes called the Annunciation lily, is an old favorite in gardens. It is the well-known white lily, whose fragrant snowy blossoms, on long spikes, enliven and perfume the hardy borders and shrubberies during the warm months of June and July. The absence of the Madonna lily would cause a decided loss to any garden.

JOHN F. JOHNSTON.

Glen Cove, L. I.

CLUB AND SOCIETY DOINGS

PITTSBURG AND ALLEGHENY (PA.) FLORISTS' CLUB.—The May meeting of the club was fairly well attended considering the busy time of the year for the plantsmen. Quite a good exhibition of plants and cut blooms was on hand. "Bedding Plants and Pansies" was the topic for discussion. Ludvig Mosbaek, of Onarga, Ill., showed a fine lot of cut pansies. H. A. Dreer, of Philadelphia, exhibited two novelties—the double-flowered alyssum, A. saxatile flore-pleno and Euphorbia pilosa major. E. P. Hostetter, of Manheim, Pa., showed cut daisies and pansies, and A. Hostetter, of same place, had a nice lot of pansies. The Valley Greenhouse Company staged a collection of blooms of bedding plants. S. J. Wolfe, of Emsworth, showed pansies. Godwin & Son, of Bridgeville, had a collection of bedding plants. The Phipps Conservatories, as usual, made a fine display of plants, the calceolarias being particularly admired. Blind Bros. also had a good collection of bedding stock, and the Baby Rambler rose. E. C. REINEMAN.

BOSTON GARDENERS AND FLORISTS' CLUB.—About forty members attended the outing of the Gardeners' and Florists' Club on Saturday afternoon, April 29, on their visit to the flower pot factory of A. H. Hews & Co., at Cambridge, Mass. This was one of the most successful outings in the history of the club, for it led the members into seeing the manufacture of flower pots in the most up-to-date style—something which few of them ever saw before or had any idea that a flower pot went through so many different hands ere it reached the potting shed. The party was met by G. H. McKee, president, and E. L. Pierce, vice-president of the company, and L. L. Bryant and Thomas J. Benwell, salesmen. These gentlemen conducted the party all over the immense establishment, explaining as they went along the different operations in the manufacture of the various pottery ware made by the firm. Several hours were spent in the different parts of the factory, the offices being the last place visited; but it was here that the visitors were royally entertained to lunch and given souvenirs as a remembrance of their visit. J. W. DUNCAN.

MASSACHUSETTS HORTICULTURAL SOCIETY.—The April exhibition of the society, which was held at Horticultural Hall on Saturday, the 29th, was not large, but some very fine plants were shown. The calceolarias and pelargoniums from Mr. Geo. F. Fabyan (James Stuart, gardener) were very fine indeed; the plants of the latter being much superior to any seen in Boston in recent years. Mr. Fabyan was the only exhibitor in the classes for azaleas, calceolarias and pelargoniums. W. J. Clemson had a fine collection of tulips and narcissus. Mrs. J. E. Shurtleff, Jr., and Mrs. E. M. Gill showed collections of pansies. A noticeable feature of the show was several well-grown plants of *Amaryllis vittata* from E. W. Converse (Robert Marshall, gardener). One of these plants carried seventeen spikes of bloom, and Mr. Marshall was awarded a first-class certificate for their superior cultivation. Thos. J. Watt, gardener to Mrs. H. F. Durant, was awarded a first-class certificate for superior cultivation of *Saccolabium ampullaceum*; and Robert Cemeron received a like award for *Impatiens Holstii*.

The collections of native flowers are always interesting; the only exhibitors on Saturday were Mrs. Arthur Clark and Miss Isabella C. Shattuck. J. W. DUNCAN.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The regular monthly meeting of this society was held Tuesday evening, April 25. The prize this month was given for the best two plants of calceolarias. There was quite a keen contest, and after considerable deliberation the judges awarded the prize to Wm. Scott. Only a short business session was held, and the meeting adjourned to allow the members present to attend the lecture given by Professor George T. Powell in the lecture room of the high school. This lecture was given under the auspices of the society, and was open to the public. There was a good attendance. Professor Powell gave a very learned and instructive lecture, his subject being the "Propagation of Trees and the Culture of Roses." A number of excellent drawings were used for illustration on the subject of trees. He spoke chiefly of the fruiting kinds, and dwelt mainly on the careful selection of stock, illustrating very clearly the advantage of a healthy parentage by showing the free-growing and free-fruited qualities of plants taken from such in comparison with plants propagated from unhealthy trees, or trees of undesirable habit. In the part of his lecture devoted to roses, he gave a lengthy description of soils most suited to their development. Soil of heavy clay nature he considered the best. He advised against a very general mistake in the planting of roses—that of planting too shallow, considering it advisable to plant grafted roses so that the graft would be at least three inches below the surface of the soil. In conclusion he gave some advice regarding the destruction of the San Jose scale, and strongly advised concerted action in fighting it. WM. SCOTT.

PHILADELPHIA (PA.) FLORISTS' CLUB.—On Tuesday evening last we had a very interesting meeting. While the attendance was not large, those present took an active part in the proceedings. Edwin Lonsdale read a paper on some of Burbank's achievements. This paper was really a comment on some articles that have been appearing in the Century magazine. The essayist pointed out the work being done by Burbank, also very clearly portrayed the non-sensical part of the articles, showing that they were written by some one who did not have horticultural knowledge. For instance, in relation to Burbank discovering a verbena with fragrance, several members who had grown these plants 20 years ago remembered a white variety which was at that time very fragrant. Antoine Wintzer, of Conard & Jones Co., West Grove, Pa., who was present, was asked to say a few words on the newer roses. He began by taking exception to some articles recently published in the trade papers in reference to rose growers not being so progressive as carnation growers. He thought that just at present rose growers were very much alive, and never was there a time when so many promising novelties were in sight as at present. In roses for the amateur prospects were very good. As to the Baby Rambler rose not being a good grower, his experience was that it was an easy propagator and free grower; having polyantha blood in it he did not hesitate to use the knife freely. Of the first batch of cuttings, 97 per cent. rooted. In relation to the work of Burbank, the speaker thought other men were doing equally as good work. For instance, Dr. Van Fleet was doing very good work among roses. He has given us Sir

FRUIT UNDER GLASS.

The Early Grapery.

The crop should now be far enough advanced to give us an idea if it is coming up to expectations. The fruit man, or the majority of fruit men, in which I must include myself, delights in seeing large bunches, if properly finished. Take, for instance, the grape that is more generally grown than any other variety—Black Hamburg. This, when ripe, should be jet black in color. In this condition the grapes will be admired whether the weight of the bunch is two pounds or six. The main thing in getting color and finish to this fruit, in my estimation, is the airing. When the grapes commence to ripen, keep on all the air possible; that is to say, with a temperature of 75 to 80 degrees in the house; in fact, a crack of bottom air is a great help in this respect. The aim should be to keep up a healthy, bracing atmosphere. Whoever attempts to ripen up fruit in a close, humid atmosphere, I am afraid, will fail. Another thing that has to be considered is watering the border. It is poor policy to do this if it can be avoided while the fruit is coloring. Usually, if the vines receive a thorough soaking just as the fruits take on their second swelling, this should carry them over the coloring period. After that, if necessary, the border could have a light watering. I presume there are no two men who treat fruit just alike. However, we all aim for the best results possible. I don't believe in syringing the vines after the grapes are thinned. True, red spider is a great enemy to the foliage if it once gets a headway, but by being careful with the airing and providing a moist atmosphere while the



STAND OF E. C. LUDWIG, IN ALLEGHENY, PA., MARKET, EASTER, 1905

Thomas Lipton, which undoubtedly will prove the best in the rugosa line; and others are now being developed; one, an everblooming climber, looks very promising.

The principal thing, Mr. Wintzer thought, in roses was to avoid deterioration of stock. Just so long as a grower propagates and competes with his neighbor as to price, roses will be ruined by loss of vitality. No one can honestly grow young stock and sell at \$15 or even \$25. It is worth much more to produce good, honest stock that will retain vitality. Even roses that are run down can be reclaimed by careful propagation and good growing. In his opinion, the proper stock for propagation was outdoor grown. Treat the stock plants like hardy shrubs, and grow the young plants in three-inch pots.

Henry A. Dreer exhibited a vase of the new marguerite, Queen Alexandra. This is an anemone-flowered marguerite, pure white, and larger than the variety now grown. This new introduction was much admired, and a center of attraction. Even the single form is far superior to the general run of marguerites.

Conard & Jones Co. showed young plants in bloom of the Baby Rambler rose, all propagated since January 1. All were in flower and were thrifty plants.

Edwin Lonsdale exhibited a plant of an Australian star flower, one of the subjects that Burbank is now working on. DAVID RUST.

The dyed carnation has evidently received its death blow on the Pacific Coast. The San Francisco Call, of recent date, contains the following item: "Frank Shibeley, a florist, called the attention of the Board of Health to the green carnations sold by some florists, saying they are dangerous because they are dyed with rank poison, and if placed in the mouth of a child would cause serious sickness, or even death. The board ordered a warning to be given the public regarding coloring of carnations, and notices will also be sent to various dealers to cease using the alleged poisonous dye."

vines are growing, there is not much danger from this pest. On the other hand, let a house get a check through careless airing, or any other cause, and red spider will surely appear. A light dusting of sulphur on the foliage will check the progress of this pest.

Figs.

Figs are grown in different ways successfully—either in tubs or planted in a border trained to the back wall of a peach house. However, the best results are obtained by planting them in a house. Figs are not particular as to soil, but being rank growers, the roots should be confined to a limited space; otherwise, the trees will make a strong, vigorous growth at the expense of the fruit. Where the roots are allowed to run unchecked, it is surprising the distance they will spread. Of course, this depends somewhat on the size of the house and the headroom at command. A border six feet wide and three feet deep should be sufficient for a good-sized tree. As with all other fruits, good drainage for figs is essential. Anything stagnant is detrimental to the soft, fleshy roots of the fig. When growing, a moist atmosphere should be afforded, spraying the foliage twice a day. The fig house should be situated so that it will get the sun all day if possible. While the fruit is swelling a temperature of 80 degrees with sun heat should be maintained. As the fruits begin to ripen, a fairly dry atmosphere should be afforded. Figs, to be appreciated, should be allowed to get thoroughly ripe before gathering. Everyone who has grown this fruit knows the advantage of having the trees in a confined border. This gives us a chance to use manure water in developing a crop, with no danger of having a too rank growth. Pruning should also be avoided as much as possible. If the tendencies are to too much foliage, rather disbud some, as the trees start their new growth in Spring, than cut out much heavy wood. Severe pruning is apt to cause rank growth. There are quite a number of figs, but probably two of the best and most reliable for growing under glass are Brown Turkey and Negro Largo. WM. TURNER.

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Vinca variegata, 4 in. pots..... 10.00
Pansies, in bloom..... 1.00
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MOON VINES A. W. Smith's Hybrids, 4 in., \$10.00; 3 in., \$7.00; 2 1/2 in., \$5.00 per 100. Staked up.

GERANIUMS. 4 in. Mme. Thobaud, pink; S. A. Nutt, La Pilote, Le Favorite, white; and other good red varieties, \$7.00 to \$8.00 per 100.
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3,000 Arancaria Excela Plants, entered at the Philadelphia Customs House, 2 years, 10 in., 2 to 3 tiers, 50c.; 12 in., 60c.; 14 in., 70c.; 18 in., 75c.; compacta, \$1.00; Glauca, 75c. Three more large consignments are coming.
Kentia Forsteriana, entered 4 years old, 25 to 35 lbs., 75c.; 4 years old, 24 to 30 lbs., 60c.; Belmoreana, 25 to 30 lbs., 75c.
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New York.

The Week's News.

The Cut Flower Exchange holds a stockholders' meeting to-day (Saturday) in the offices, corner of Twenty-sixth street and Sixth avenue, to elect a new president and four directors. The retiring president is William Amos, and the retiring directors are W. H. Siebrecht, George Golsner, J. A. Leach and Charles Beekman.

The Pennsylvania Railroad Company is acquiring much property in Woodside, L. I., for station purposes; among its latest purchases are the establishments of Victor Dorval and Charles Smith, both florists of that place.

A valuable mare belonging to S. C. Nash, Clifton, N. J., became frightened while hitched to a post near the greenhouses a few days ago, and broke loose. Starting to run, she overthrew the wagon, and, falling against some sash, received a deep cut in the shoulder. A veterinary was called and ten stitches were necessary to close up the wound.

The next meeting of the New York Florists' Club occurs on Monday evening, May 8, in the Grand Opera House building, corner of Twenty-third street and Eighth avenue. Alfred H. Langjahr will answer the question relating to the street merchant from the wholesaler's standpoint, and the other questions placed in the box at last meeting will receive due consideration at this time. Bedding plants will be on exhibition from many of the prominent growers, and F. Weinberg, of Woodside, L. I., will make a display of cactus and some of the newer forms of echeveria. The meeting will be called promptly at 7.30 p.m.; so let us all be present on time.

Jerome A. Suydam, Flatbush, N. Y., is offering his greenhouse plant for sale. The land is to be cut up for building lots, so the greenhouses, etc., must be moved from it.

At the dinner given to Dr. Osler, the of alleged chloroforming for old men fame, in the Waldorf-Astoria, on Tuesday night last, the decorations were entirely of flowering dogwood.

The Horticultural Society of New York will hold its fifth annual exhibition in the Museum building of the New York Botanical Garden, Bronx

Pansy Plants

Of my largest flowering mixture of Show Varieties, unsurpassed quality, fine strong plants, in coming in bud, at \$3.00 per 1000. Large plants, in bloom, \$1.00 per 100; \$3.00 per 1000. 500 at 1000 rate.

GUSTAV PITZONKA, Bristol, Pa.
Mention the Florists' Exchange when writing.

Park, on Wednesday and Thursday, May 10 and 11. In addition to an attractive list of prizes for growers and amateurs, the council may award certificates to meritorious exhibits. George Skene will be in charge of the arrangements on the part of the New York Botanical Garden. It is observed that the \$50 prize for the "best horticultural novelty," etc., is omitted from this year's schedule. This is wise. Copies of the prize list can be obtained from Secretary Leonard Barron, 306 West 149th street, City.

A novel organization has been incorporated in New York under the name of the Agricultural Experts' Association. George T. Powell, Thomas Tryon, and Cyrus C. Miller are the incorporators. The association will cover a wide field. It purposes to give expert advice in all matters concerning land development in any direction. It will lay out an estate, a town or a group of farm buildings. It will examine soil and give advice as to the best methods of improving and cultivating it. Orchards, forestry, horticultural work and gardening and farming in all branches come within the scope of the association. Injurious insects and plant diseases will be treated by an expert who knows all about such things. George T. Powell is president of the association. The sanitary engineer is William Paul Gerard, the architect is Thomas Tryon and the consulting engineer is Collins P. Bliss. M. V. Slingerland is the entomologist and Frank S. Peer is associated with the new organization as live stock expert.

Apoplexy killed Emil Landraf, a gardener, while he was working in Greenwood Cemetery last week. Landraf was 60 years old, and lived at 288 First street. He was employed by James Weir, the florist, and was at work on a new grave when stricken. His body was taken to the Fifth avenue station house and then home.

Mrs. Bingham, of Ridgewood, N. J., intends to dispose of her greenhouse establishment, consisting of nine greenhouses, also a house and barn with six acres of land.

The Fleischman Floral Company has leased the building at the northwest corner of Forty-third street and Fifth avenue, and will occupy the premises as a flower store.

Maltus & Ware, who represent several Holland and Belgium growers in this country, have removed from 136 Water street to 14 Stone street.

E. G. Hill, of Richmond, Ind., sailed for Europe on Saturday, April 29.

FIRES.

COLUMBIA, PA.—On April 16, at the greenhouse establishment of William Aherne; damage, \$500. Supposed to have originated from a defective flue in the boiler house.

ROCHESTER, N. Y.—On April 17, a fire in the greenhouse plant of Alfred Dobbertin did damage to the extent of about \$600.

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CARNATIONS and Novelties
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FIRMS WHO ARE BUILDING.

PEORIA, ILL.—Charles Loveridge will erect three new greenhouses.

CHATHAM, N. J.—J. T. Wagner contemplates building a house, 160x34 feet.

BARABOO, WIS.—Wm. Peck, of the City Greenhouses, is making an addition to his plant.

PITTSFIELD, MASS.—George Neal is making extensive improvements at his greenhouses.

ABERDEEN, S. D.—C. A. Spink has been making some additions to his greenhouse plant, and has now 2,500 feet of glass.

CATALOGUES RECEIVED.

JOHN S. AMSTRONG, Ontario, Cal.—Catalogue of California Roses, Fruits, Palms, Shrubs and Flowering Plants. Illustrated.

BINGHAMTON, N. Y.—S. H. Decker, florist, was married on April 26 to Miss Helen Harder, of Stella, N. Y.

AURORA, ILL.—On April 17 the sale of the Aurora Nursery Company was broken into and about \$100 worth of checks and money taken.

WEST LAFAYETTE, IND.—Early on April 24 thieves entered the greenhouse of Hermian Roth, carrying away flowers and trampling on and injuring plants.

The Heather

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Review of the Market

Later Easter Trade Reports.

NEW YORK.—The weather turned quite warm in the middle of the week and seemed to check the business which, for several days, had been well up to the average for this time of the year. Violets are still coming in regularly, but as most of the retail stores are cutting them out, because they will not keep if the weather be at all warm, there is no means of selling them at any quotable prices. Occasionally, a few go at a normal figure, but the bulk are offered at from 50c. to \$1.25 a thousand, and they do not sell. Lily of the valley has become more plentiful, and now that the Spring weddings are over there is scarcely any demand for it. The better grades are being freely offered at \$1 per 100. Sweet peas also are becoming a good deal of a glut. Within the last few days there has been no perceptible call for these, and they are accumulating in the hands of the dealers. A steady supply of white single narcissus is coming from the South, and these, added to the home-grown crops of narcissi and tulips, make a very full market of this line of bulbous flowers. Prices are necessarily low. Lilies are quite plentiful, and while 6c. each is a ruling figure for the select grade, many good lilies are going at \$3 and \$4 per 100. Of callas, too, there seems to be a full crop just now, and prices for these do not vary much from those mentioned for lilies. Fancies are plentiful, but, thanks to their vivid coloring and their Spring-like freshness, they are clearing out quite well, the street men having taken them in hand in lieu of the violets.

Carnations are holding their own reasonably well; the crop continues fairly plentiful, and prices have taken no serious drop as yet. Bride and Bridesmaid roses are, in the main, of exceptionally fine quality; unfortunately, there is the best call for the shorter grades, and these are not the most abundant. Early in the week business for roses was decidedly better, and somewhat higher values were obtained. The supply of American Beauty is gradually shortening up, and there has been a marked falling off in quality. Liberty, General Jacqueminot and Ulrich Brunner are too plentiful for the demand, and a natural leaning toward lower values is the result. Gladioli are very plentiful, considering the time of the year, and a strong effort is made to maintain the price at \$1 per dozen.

BOSTON.—Slow sales are reported all along the line the past week. On Saturday all stock was fairly well cleaned up, but as this week advanced it became plentiful, with little or no demand. Roses are very abundant, the quality in most cases good. For the commoner kinds prices range from \$1 to \$6, while American Beauty fetch from \$1 for shorts up to \$20 for the long-stemmed flowers. Carnations, which have held up well in price all Winter, have now dropped, and very fine stock may be had for \$1 and \$1.50. Lily of the valley sells fairly well at \$2 and \$4. Lilies are hard to move at from \$4 to \$8. Violets are yet seen in fair quantities, at 50c. and 75c. Sweet peas are plentiful. Gladioli have made their appearance and sell at \$4 and \$6. Narcissus and daffodils are now in from out-of-doors.

INDIANAPOLIS.—An unusual quiet has prevailed since Easter. Few decorations are on hand and funeral work is not plentiful. Prices on all grades of stock are decreasing, but in spite of this lilies, roses and carnations are accumulating so rapidly that many go to waste. Select Bridesmaid, Bride and Golden Gate wholesale at \$5 to \$7 per 100; seconds bring \$3 to \$4. The best La France and Souvenir du President Carnot bring \$8 to \$9. Liberty, of excellent quality, are being received, going at \$7 to \$10 per 100. The demand for American Beauty roses is very light; select 36-inch-stem stock brings \$25 per 100; 24-inch to 30-inch, \$15 to \$20, and 12-inch to 15-inch, \$1 a dozen. Carnations, with the exception of good white, are disposed of with difficulty; \$2.50 to \$3 per 100 is obtained for fancy stock; 75c. a dozen is the customary retail price.

Any number of longiflorum lilies and callas may be had at \$10 per 100. Lily of the valley is out of the market; a few shipped are being received at \$4 per 100. Pink and white sweet peas of excellent quality, wholesale at 75c. per 100.

Bedding and bedding plants seem to be the all-absorbing topics of the growers at present. The number of bedding plants is larger than usual this year, but orders are coming in rapidly, so that with a little hustling no stock of this class should be left after Memorial Day. Prices are about the same as in former years: Four-inch geraniums bring \$1 to \$1.25; 5-inch, \$1.25 to \$1.50; 6-inch, \$1.75 to \$2, and 7-inch, \$2 to \$2.50 per dozen.

Tomlinson Hall Market business has been very quiet this week, as the cool weather has discouraged plant trade, and few cut flowers have been bought by the retailers.

CHICAGO.—Trade prospects the past week assumed a brighter aspect, and a good demand for stock of all kinds had a tendency to stiffen prices a bit. The strike prevailing here makes it extremely difficult for the wholesalers to get stock from the depots; in consequence, several of them have notified their growers at a distance from Chicago to endeavor to find another market for their produce temporarily. Others have been informed by the express companies that it would be all but impossible to deliver perishable goods on time, and, in some cases, the companies have refused to accept flowers for transport. The consequence has been that the supplies of stock in this market have been reduced, and there is a good demand both in local circles and from out-of-town. American Beauty are yet plentiful, except extra fancy grades, which bring \$4 to \$5 per dozen; medium and shorts, especially the latter, are in large quantities at \$4 to \$24 per 100. Bride and Bridesmaid are still abundant at \$2 to \$3 per 100 according to grade; Golden Gate brings the same price; Meteor and Perle des Jardins, \$2 to \$6. Mrs. Abel Chatenay is coming in very fine, selling at \$2 to \$3. Liberty is also in demand at \$15 per 100.

Carnations are in ample supply, the quality being unusually fine for so late in the season. Prices range from \$1 to \$4. Sweet peas are arriving in quantities, and are bringing 50c. to \$1.50. Lilies still come in quite freely, although they do not sell so well as before Easter; they bring from \$6 to \$12 per 100.

Bulbous stock can be said to be almost out of the market, with the exception of outside flowers, which do not move freely. Lily of the valley is selling at \$2 to \$4 per 100. Adiantum brings 50c. to \$1.50 per 100; smilax, \$2 to \$2.50 per dozen; asparagus, \$35 to \$50 per 100.

ST. LOUIS.—The week after Easter did not start as well as was expected; in some parts of the city dull trade was reported. A number of small weddings and funeral work constituted about all the business. The weather, too, was very bad, with wind, hail and too much rain. Cut stock was not over-plentiful. Prices remained almost as high as during Easter.

This week stock of all kinds is more plentiful. Most of the growers near Chicago are shipping flowers here; owing to the great teamster strike in that city, the express company cannot deliver the consignments. This, with the regular local consignments, has had a tendency to lower the price on all grades of roses and carnations. American Beauty roses, best grade, range from \$5 per dozen down to \$2; shorts go at \$5 per 100, with plenty of them. Bride, Liberty and Bridesmaid bring \$3 per 100 for fancy select stock; from that down to \$3 per 100.

Carnations, fancy, are still at \$4 and \$5 per 100; good first-class stock realizes \$2 to \$3, with common at \$1.50 per 100.

Sweet peas are becoming more plentiful each day; stock is very fine, at \$1 per 100 for fancy, long stemmed blooms; other stock 50c. There are still plenty of longiflorum lilies and callas to be had at \$8 and \$10 per 100. Tulips, lily of the valley and other bulbous stock rule at formerly quoted prices. Outdoor lily of the valley, iris, snowballs and others, are now coming in, but find little or no sale. All kinds of greens are plentiful.

CINCINNATI.—Easter business seems to have been good all over the country. The past week trade was also active. This week, however, business is simply lifeless, and much stock will be sold at low prices. American Beauty are fetching \$2.50 to \$3 per dozen for select. It is hardly worth while to name prices for other roses. The opening of a large retail furnishing store created some demand for made-up pieces. Julius Baer and Fred Gear got the greater part of the work. Peonies are now coming into the market. Carnations are still holding up nicely, good grades selling at 2c. to 3c. The poorer ones fetch \$1 to \$2.50.

C. A. Getz, the veteran florist of Cincinnati, now in the lumber business in Virginia, was in the city on the 26th ultimo, attending the wedding of his nephew.

PITTSBURG.—Last week's trade was very satisfactory and is continuing so. Prices of stock are holding up well. Carnations bring from 2½c. up, and roses from 4c. up. Lilies still realize 10c. and better, with a good supply. Bulbous stock is nearing its end. Good lily of the valley bring 2c. Brilliums and field violets, also lilies, sell well. Iris are in good demand. The good weather is helping plant trade; the markets are well supplied.

E. C. R.

Cannot Do Without It.

Herewith check for \$2 for two years' subscription. Of course I could not do without The Florists' Exchange.

Penna. JACOB FRIES.

HARTFORD, CONN.—Easter business this year exceeds all previous records. The sale of plants was far ahead of any previous year. All kinds of blooming plants sold well, but there was very little call for decorative stock. There was no noticeable increase in the demand for cut flowers over last year; plants seem to be taking the place of cut flowers more and more each year. Azaleas and lilies were most called for, and the supply was equal to the demand. Lilies sold from 1 to \$2 each. Some fine azalea plants were to be had; most of them were in just the right condition to be salable. They realized from \$1.50 to \$3 each. A few of the higher priced ones were disposed of, but the largest call was for the smaller ones. There were but few genistas sold; the demand for these plants seems to be getting less each year; \$1 and \$1.50 each was asked for them. Spiraea plants sold about as usual, at 50c., 75c. and \$1 each. Tulips, hyacinths and daffodils in pans went well at from 50c. to \$1.50 per pan. A few Crimson Rambler roses were in the market, and they sold readily at \$1.50 and \$2 each. Hydrangeas went well at from \$2 to \$3 each.

There was a good supply of all kinds of cut flowers, excepting carnations and violets, both of which were most called for. There was an abundance of roses of all kinds, and the quality was good. Bridesmaid were most largely called for, and brought \$1.50 a dozen, as did also Bride. American Beauty sold at from \$4 to \$8 a dozen, and Ulrich Brunner and Kaiserin Augusta Victoria \$2 a dozen. Carnations were very scarce, but those in the market were of good quality. The fancy varieties brought \$1 a dozen, and the common kinds 75c. Quantities of violets were sold, but before Saturday evening scarcely a violet could be had. Some were of good quality, and some exceedingly bad. They brought \$1 per hundred. There was a good demand for daffodils, tulips and mignonette, all of which brought 50c. per dozen.

A number of small blooming plants were used in the churches, and afterwards given to the children in the Sunday schools. All of the florists employed extra clerks and extra delivery teams.

J. F. COOMBS.

ST. PAUL, MINN.—Easter, 1905, will long be remembered as the nicest from the weather point of view, and the most profitable, and the volume of business the largest ever recorded. Stock was plentiful, the only noticeable shortage being in violets. Owing to the lateness of the season the output was necessarily curtailed, while the quality was poor. In blooming plants, lilies, as usual, took the lead. Azaleas were not quite as good sellers as in previous years, while hydrangeas and spiræas sold very poorly. The hydrangea, at its best, is not a popular Easter plant, and should be held for Memorial Day trade. Bulbous stock in pots and pans sold fairly well. Well-done Crimson Rambler and hybrid roses were in good demand, and sold readily. There was an abundance of all kinds of plants, and stocks were not all cleaned out. Some of the leading store windows are still gay with "left overs."

In cut flowers there was a good demand for everything, and plenty of stock to supply it, excepting violets. Prices were advanced but slightly over previous week's figures, and this, coupled with the fine weather, brought out the shoppers in large numbers.

On Saturday evening some of the stores indulged in cheap sales of lilies at 20c. and 25c. per plant, but this diversion did not affect trade in general.

Since Easter, trade has been good. May & Co., Holm & Olson, and E. F. Lemke have all had wedding and other decorations, calling for an abundance of stock, while funeral work and numerous balls have helped to keep down the surplus.

VERITAS.

PATERSON, N. J.—Easter business was very satisfactory. There was a short, sharp and decisive battle on lilies. A big department store here began to sell at 10c., a price which was met by Ed. Seery; then the store reduced the price to 9c., Seery going to 8c. A further reduction of 1c. was made by the store people, which Seery also met, when clerks from the store came around and bought all Seery's stock at 7c. After the supply otherwise had been exhausted, Robert Smith brought in two wagon loads of lilies, which he easily disposed of at 10c. Mr. Seery is to be congratulated on the steps he took to meet his extraneous competitors on their own ground.

SAN FRANCISCO.—In comparison with the excellent trade one year ago florists report this Easter business most excellent. The season's prices last year were advanced, but this year normal prices were maintained, and an excessive demand accommodated, the result being an average of 20 per cent. advance over the Easter business of 1904. Blooming plants again cut quite as good a figure as did cut flowers. The best selling stock, second of course to potted and cut lilies, were roses, orchids, carnations, tulips and sweet peas.

In his rounds among the stores the writer failed to find anything in the way of Easter novelties, excepting white and lavender paper bells and garlands, for which a good demand was reported, the three sizes in Easter bells selling at 50c., \$1 and \$1.50, respectively, the garland paper fetching a penny a foot. Florist Stapfenbeck had some dwarf lilac trees in bloom. This miniature tree is 20 inches in height, in a 9-inch pot, and sold on sight at \$10. There was enough stock of all kinds, and both grower and dealer cleared out nicely.

Retail prices for Harrisii and longiflorum lilies were \$2 to \$7.50 per dozen; callas, 25c.; American Beauty, \$1.50 to \$5 per dozen; Bride, Bridesmaid, Liberty, Kaiserin Augusta Victoria and General Jacqueminot, \$1 to \$2; carnations, 25c. to 75c. per dozen. Violets were not plentiful at 25c., one-half size bunch. Sweet peas were not equal to demand at 35c. per bunch. Tulips brought 75c. per dozen; pot hyacinths, \$1 to \$3; mignonette, 25c. per bunch; hydrangeas, \$2.50 to \$8 per dozen; special pick, \$2.50 each. Various quotations for azaleas, from 50c. to \$7.50; hyacinths and daffodils, 25c. and 35c. per bunch. Daisies were abundant at almost any price.

ALVIN.

GRAND RAPIDS.—We had a very hot spell of weather a few weeks previous to Easter which brought out such a heavy crop of roses and carnations as to congest the market. Shipping trade dropped off and stocks accumulated. Flowers sent to the commission houses brought very little, hardly enough to pay for the picking. It was a time when the buyer was very particular as to quality, and the best only was wanted. Such a condition previous to Easter has not occurred for a great many years; it resulted in a shortened carnation cut for Easter and good prices. Azaleas were pretty well flowered out, long before Easter. All flowering plants sold well.

Carnations were in large supply, but insufficient to meet the demands. Roses did not sell as well as in former years, and lots were left over.

In plants, the lily was leader, and although it was thought the supply was sufficient, by noon Saturday the stores were trying to buy lilies.

Crabb & Hunter had the largest crop of lilies in town, a large proportion of which were shipped as pot plants to Chicago and elsewhere. Cross had a fine stock of Rambler roses and hybrid perennials in full bloom, most of which were shipped. The stores had no special line, but a general assortment of plants. Prices were: Roses, \$1 to \$3 per dozen; American Beauty, from \$1.50 to \$6; carnations, 50c. to 75c.; lilies, \$2 to \$3 per dozen; lily of the valley and daffodils, 50c. to 75c.; tulips, 50c. to 60c.; violets, 15c. to 25c. per dozen.

COLORADO SPRINGS, COLO.—The florists in this city were probably as successful in holding stock back for Easter as any in the country, as the lilies, Dutch hyacinths, etc., were the finest grown in years. Everything sold well. The finest display ever shown here was at the Clark greenhouses, which were bought last December by J. B. Braidwood, son-in-law of Wm. Clark. The old palm house, used for years to accommodate palms, etc., for decorating, was cleaned out, the sash painted white, the glass tinted light green and the house arranged with odd-shaped benches. These were arranged, each bench being complete with some special plant grouped in such a way that each played its own part in the general decorative scheme. The place drew large crowds every day during Easter week.

A. C. Rott, who was in business for a number of years at Bloomington, Ind., is now in charge of the cut flower department of Mr. Braidwood.

LYNN, MASS.—Easter trade, on the whole, was satisfactory. The cut flower business was not quite so good as in other years. Plant sales were better than last year's. Lilies were very fine and sold clean. Azaleas also sold well. Genistas and Crimson Rambler roses were in good demand. Bulbous stock, with the exception of daffodils, did not move very fast. Church decorations were about the same as last year; nothing very elaborate was noticed. In cut flowers there was an abundance of all kinds. Colored stock sold well; white and light-colored flowers were sticky. Nothing new was noticed. Plant trade seems to be increasing every year. Most customers seeing Easter plants and flowers together and comparing the prices will almost invariably take plants. The total business done was about the same as in 1904.

J. L. M.

LATER EASTER REPORTS

(Continued)

NEWARK, N. J.—A. Begerow reports that the demand for plants at Easter was greater than ever before. Lilies were most in favor.

MONTROSE, PA.—W. W. Nash reports that he had the best Easter trade this year he ever experienced, and that the season just opening looks very promising.

MEADVILLE, PA.—G. W. Haas & Son write: Easter trade this year was very nearly one-half better than last year's. In cut flowers, carnations took the lead. L. Harrisii sold well. Roses were not so much in demand. In plants everything went.

ELMHURST, N. Y.—There was 10 per cent. increase in Easter trade over last year's. A shortage in cut flowers, except bulbous stock, was made up by the increased number of blooming plants. Prices were about the same as in previous years.—H. N. HOFFMAN.

MANCHESTER, VT.—George V. Smith says Saturday was a cold day, but the demand for flowers was larger than last year. Carnations took the lead, with not nearly enough to fill orders. Lilies were not first-class, but all cleared out. Prices were a little below last year's. Very little call for plants was experienced.

CANAL DOVER, O.—Easter trade made a clean sweep of everything; trade was far better than in any previous year, and more stock could have been sold. The trade in bulbs has been furious. Ferns are in very heavy demand for Fall. The supply of budding stock will be inadequate for the demand. Business in all lines is good. C. BETSCHER.

NEWPORT, R. I.—The volume of our Easter business was not quite up to the average of that for several years past. Prices, both on plants and cut flowers, were about the same as last year's. Lilies brought 25c. a bloom; bulbous flowers, 50c. per dozen; carnations, \$1 per dozen; roses, \$2; plants from 50c. to \$4 each. F. W.

CHAMBERSBURG, PA.—Byers Bros. report: Easter trade was something better than last year's. Roses headed the list, with carnations next. In plants, lilies sold best. Other bulbous stock went well. Flowering plants of all kinds were in demand. A large trade was done in pansies, which were very fine.

DAVENPORT, IA.—John T. Temple reports Easter trade very good, a slight increase over last year's. Owing to two new flower stores starting here since last Easter, some had a few lilies left. There was more call for blooming plants in pots than ever before. Smilax was very scarce, causing quite a run on Asparagus Sprengeri and plumosus.

BETHLEHEM, PA.—Jacob A. Fries reports a big Easter trade. The usual run of plants azaleas, rhododendrons, hyacinths, tulips, lily of the valley, daisies, astilbes, geranias; and, of course, lilies; all sold well. An unusual demand was experienced for 4-inch pot geraniums of any color. A few palms were sold; and large plants were loaned to the churches for decorative purposes.

WORCESTER, MASS.—Our florists are well satisfied with the Easter trade. Stock was plentiful, and prices a shade lower than last year's. Lilies were sold at 20c. per bud, a drop of five cents from last season's prices. All kinds of bulbous plants were in evidence, but these, with azaleas, held their prices up. Cut flowers were in abundance, with prices about as usual. There has been a good steady change since Easter. With weddings, funerals and decorations much left-over stock has been used up. C.

YOUNGSTOWN, O.—Walker & McLean say trade this Easter was about 15 per cent. better than last year's. We think it would have been still better had we been favored with good weather earlier in the week. The weather was miserable up till Saturday, which was very fine; and, therefore, we were compelled to crowd most of the week's work into one day. Plants that were most in demand were lilies, decidedly in advance; then spruce, azaleas, and geraniums and tulips. There was a decided falling off in the call for narcissus. In cut flowers, violets had the call, and good stock was not obtainable; then came carnations, roses and lilies. There appeared to be an ample stock of everything but violets. Prices generally were about the same as those of last season.

NEW BEDFORD, MASS.—Easter trade was 25 per cent. better than last year. Lilies sold well, with the supply very plentiful at 25c. a flower. Tulips, narcissus and other bulbous stock in pots were very good sellers. Roses and carnations were in fair demand, the former, for good stock, bringing \$2 per dozen, the latter 75c. and \$1 a dozen. But around this section there seems to be more demand for flowering plants at Easter time than for cut flowers. Violets sold well; there was a scarcity of these, \$2.00 per 100 was the price asked. Single violets are mostly grown for this market, they easily being the favorites. Princess of Wales is the variety chiefly grown.

ST. ALBANS, VT.—H. Bryant says: Good Friday morn looked gloomy with four inches of snow. Saturday was warmer, which gave us a chance to deliver our plants that we could not cover. Sunday was beautiful. Plants and cut flowers of all kinds sold out by 5 p. m. April 22. There were not enough lilies to go around. We had a great call for violets, but none were to be had in this section. Lilies sold at 15c. a flower or bud. A great call was experienced for carnations at 50c. and 60c. per dozen. The demand for roses was slow at 75c. to \$1 per doz. However, all sold out. Bulbous stock and spruce sold well. I believe business in general was a little better than last year's. Azaleas were not good on account of the lateness of Easter. Novelties were not much called for.

ROCHESTER, N. Y.—The Easter demand for flowers this year was the greatest ever known in Rochester and the supply was equal to it. While carnations and roses, as well as violets and lily of the valley were good sellers at about the same prices as last year, potted plants sold far in advance of any previous Easter. One dealer rented a large vacant store as an annex, and his two stores did double the amount of business over last year. The newest plant to meet with popular favor was the dwarf Crimson Rambler rose; almost every one of these in the market was sold at \$1 and upwards for each plant. Rhododendrons, azaleas, hydrangeas, spruce and acacias sold exceedingly well. Carnations brought from 75c. to \$1.50 a dozen, roses from \$1.50 to \$9, and violets, \$1 to \$1.50 a bunch, some large violets reaching \$2 per hundred. C. P. W.

LOUISVILLE, KY.—Every one here seems satisfied with the volume of Easter business transacted, also regarding the financial returns. All of the retailers whom I have spoken to report an increase over previous years, with prices as good as formerly. Owing to the very late date, bulbous stock was entirely gone, as was locally-grown violets. Plants had an increased sale and were supplied in all seasonable stock. Especially noticeable was the demand for some pans of ageratum. In cut flowers, the variety was not as great as in former years, as no bulbous stock was left in the local market. The lateness of Easter seemed to have somewhat lessened the demand for flowers for church decorations; there were so many of the Orient were employed with good effect. A. R. B.

SYRACUSE, N. Y.—Easter business came with a rush on Saturday after the wretched weather of the preceding days. All agree that the trade done was far in excess of that of other years. In pot plants, lilies led at 25c. per bud and bloom. Azaleas were next in popular demand, from \$1.50 to \$5 being the prices. Hybrid roses met with good sales at from \$1.50 to \$2. Crimson Rambler brought from \$3 to \$5. Tulips, hyacinths, daffodils, etc., proved popular with certain classes of buyers, and cleaned up well at 50c. to 75c. per pot or pan. Spruce sold readily at good prices.

In cut flowers carnations led in popularity, selling at from \$1 to \$2.50 per dozen. Roses realized \$2 to \$3; tulips, 75c. to \$1.25 per dozen; sweet peas, \$2 per 100; violets, \$2.50 to \$4 per 100. There was an unprecedented demand for violets, and the supply was much below the demand. Boston ferns sold well, and one firm handled large numbers of geraniums in bloom at 25c. each that cleaned up early. Many of the churches were elaborately decorated with lilies, palms, etc. J. B. B.

SPRINGFIELD, MASS.—Easter business was very satisfactory. In potted plants, lilies took the lead, there being a shortage of these. Azaleas were plentiful, well-grown plants selling from \$1 to \$2. Spruce, rhododendrons, Crimson Rambler and other potted roses found ready sale in limited numbers. Prices ranged about the same as last year's. The department stores offered potted plants, but the quality was far inferior to the stock offered by the florists, and at the prices charged

could not have created much, if any, competition. In cut flowers, roses were wonderfully abundant. One of the dry goods stores, it is said, sold ten thousand at 60c. a dozen. This price was met by some of the florists, but first-class stock was held at \$2 a dozen. Carnations were none too plentiful. Bulbous flowers, especially narcissus and tulips, were very abundant and prices low. Violets were in ample supply and sold well. Violets in pots went fairly well, although the supply was in excess of the demand. Bulbous stock in pots, pans and fancy holders sold well.

Palms, lilies and azaleas were used abundantly in churches. One florist had twelve churches to decorate. The increasing use of artificial lilies and other flowers for store window decorating is a sad sight to one who enjoys the true spirit of Easter. If Easter is observed at all, and windows are decorated because it is Easter, the natural flowers are none too good for the occasion. I had much rather see a store window without any attempt to recognize the season than to see anything used but Nature's choicest offerings. Any natural flower is suitable. G.

SPRINGFIELD, MASS.—A. L. Gilbert reports trade about as last year. Roses sold best at from 60c. to \$1.50 per dozen, and were in good supply. Carnations brought \$1 per dozen. There was a large supply of bulbous flowers. Lilies went at 15c. to churches and 20c. to retail buyers. No large Azalea indica were to be had. Azalea mollis and rhododendrons sold well. Geraniums realized 12c. and 15c. each. The supply of Crimson Rambler roses was not so large as last year. Most of the florists in this city sold out of cut blooms.

WASHINGTON, D. C.—Business during the early part of the week was only normal, but the last three days showed a marked improvement. American Beauty was in demand at from \$12 to \$15 per dozen. Liberty was also a favorite and brought from \$3 to \$5; Ivory, Golden Gate, Kaiserin Augusta Victoria, Souvenir du President Carnot, Bride, Bridesmaid and Mme. Abel Chatenay, \$2 to \$3 per dozen. There was a limited supply of the Cardinal and Enchanter roses, which brought from \$1.50 to \$3 per dozen. While there was an abundant supply of carnations, the prices were above the average—75c. to \$2 per dozen for the better varieties. There was a good demand for lily of the valley at \$1 to \$1.50 per dozen. Violets were very scarce; they brought \$1 per bunch; Sweet peas realized 50c. to \$1 per bunch; lilies, from \$2 to \$3 per dozen sprays; mignonette, from 50c. to 75c. per dozen; jonquils, tulips and Dutch hyacinths, 40c. to 75c. per dozen.

Potted plants of azaleas were much called for; pink and white seemed to be the favorite colors. Good plants brought from \$1.50 to \$4 each, the smaller sizes ranging from 75c. to \$1; Bougainvillea sold well at \$8 to \$15. Rambler roses brought from \$1.50 to \$3 each. Hydrangeas were in demand at \$2 to \$6. Lilies brought from \$3 to \$5 each. Harrisii and longiflorum lilies were the general favorites at 25c. per flower. Violets and pansies, in 6-inch pans, brought 75c. to \$1; tulips and hyacinths, in pans, \$1 to \$1.25 each.

The Easter trade showed a decided improvement over that of last year, notwithstanding that, owing to the lateness of the season, a great many people were out of town. The demand for plants varied considerably from that of last year, when combination baskets and boxes were in demand; this year they were not called for. Azaleas and lilies were most in demand. Such plants as Rambler roses, hydrangeas, bougainvilleas were secondary. The supply of both cut flowers and plants was equal to the demand. The florists here are a unit in declaring that this is one of the best Easters they have ever had. M. C.

PROVIDENCE, R. I.—We are fortunate in reporting a steady business, with good, salable prices, and a total volume of business well high reaching the high-water mark of last year. Carnations were never before so plentiful at a holiday time, and although the wholesale price was in excess of the market value, we feel sure this popular flower received a full portion of patronage at reasonable figures from the Easter buyer. These flowers managed to average 2c. to 3c., with some going as high as 4c., although the latter figure was too much, and it wasn't long before these values dropped to a more conservative figure. White carnations were in excess of the demand and on Saturday went as low as \$2 for handsome stock. Violets were scarce, probably not more than 8,000 to 10,000 entering this city. Prices averaged \$1 per hundred, and the quality was only passable. The scarcity of this flower may have been responsible for the falling off in receipts on the cut-flower end of the Easter business. Roses were steady at 4c. to 10c. with a full supply of good quality. Bulbous stock was plentiful at \$2 to \$3 per hundred, with a shortage of good daffodils.

The plant business stood something extra in volume, lilies in pots cleaning up in good style, at 8c. and 10c. per bloom,

wholesale. The low price was forced upon the growers by the department stores setting a very low retail value, and advertising same in the daily press, thus making the public look for bargains in plants. Azaleas were scarce in most places, but the demand was not great and quite a few still remain. There were no novelties. Small pans of tulips and daffodils at 50c. sold best.

N. D. Pierce furnished the market with nice hardy roses and Ramblers. R. I. Greenhouses stood sponsor for large numbers of hydrangeas. John Macrae was top-notch on big pan stock. A. A. Williams made a specialty of fine panes in pots. Howard Army delivered the finest pot spruce; Hoffman furnished most of the local grown lily of the valley; F. Macrae's Sons grew the best lilies, and King, of Attleboro, sent in the best selling pot tulips.

All the stores made nice displays, but nothing out of the ordinary. Keller & Co. cleaned up the best of any, and Macrae, as usual, watched his Easter profits diminish with a large display view on Easter Monday. O'Connor and George Kelley made unusually fine shows of potted stock and rejoiced in a good attendance. These two gentlemen, with the addition of T. J. Johnston, Johnston Bros., A. J. Davis and The Hogg Greenhouses, placed special advertisements in the press. C. S. MACNAB.

KALAMAZOO, MICH.—From all appearances Easter trade here will show a marked increase over last year's, and while at present it is too early to estimate the increase correctly, yet we are reasonably sure of considerable gains. Thus far we have been greatly assisted by beautiful weather, making the handling of plants very easy, and yet cool enough to develop the cut flowers to perfection. With the exception of carnations ample supplies of cut stock were on hand and sold readily at the following prices: American Beauty brought \$3 to \$5 per dozen; teas, \$1 to \$3 per dozen; carnations, 50c. to \$1 per dozen; violets, 25c. per bunch; hyacinths, tulips, daffodils, etc., 50c. and 75c. per dozen; lilies, 20c. each; callas, 15c. Greens at the usual prices. Novelties were not bothered with as the trade had all it could handle with the usual lines carried.

While mingling amid the throngs outside the florists' stores the past week, one could not help but notice the great advance made during the past few years both in the elaborate decorations displayed and the excellence of stock grown, rendering the ribbon a superfluity. Instead of a necessity to cover ill-grown plants, or dirty old pots. Now clean, well-grown and shapely plants in well washed or new pots is the rule, and the stores located well on the best business streets have advanced our business on a level with any. We are glad to note and report this progress in connection with the Easter displays, which certainly showed up finely this week, and, judging from the crowds inside the stores and the delivery wagons outside, they must have been profitable to the proprietors and a pleasure to the people.

Manager Smith, at the Central Nursery Company's, had their large store banked all round with a varied assortment of plants and besides making an effective showing inside and out, also had a string band Friday afternoon and evening to give further pleasure to their patrons, who returned the compliment in both word and deed.

G. Van Bochove & Brother also had their store filled to overflowing with the high-grade flowers and plants for which this firm is noted, and did an exceptionally good all round business. The Dunkley downtown display showed up very nicely, although the larger part of their business is done at the greenhouses, which are located well in the residence district. A grocery on Main street showed a collection from out of town which reminded one of conditions many years ago, and although some few vacant spaces showed a possible sale, yet the net result must have led to the better appreciation of the regular florist by the public at large.

The wholesale trade had good and fairly large stocks and are well pleased with business done. The local trade showed a large plant business increase, and vast quantities of lilies, azaleas, spruce, Rambler roses and all kinds of bulbs were disposed of at reasonable prices. The weather also assisted materially in making Easter of 1905 the best in the history of this city. S. B.

FREDERICTON, N. B.—Easter trade of 1905 was satisfactory. In cut flowers, lilies sold for 25c. per flower; callas, 15c.; roses, 25c. to 10c.; carnations, 75c. to \$1 per dozen; hyacinths, Dutch, 12c. each; tulips and snaydragons, 5c.; daffodils, 5c.; sweet peas, 10c. per dozen. In plants, azaleas brought \$1.50 to \$2; lilies, 25c. per flower; Paper White narcissus in pots, 25c. to 50c. each; daffodils in pots, also hyacinths. Morelle tulips, 25c. to 50c.; pelargoniums, 25c. to 60c.; cinerarias and Primula obconica grandiflora, 25c. to 50c. each; ericas, 3-inch, 25c. to 40c. each. We had a show, in both cut flowers and plants, worthy of a larger city. We shipped to all the provincial towns and had all we could do. The trade was slightly better than last year's, especially in cut flowers. J. BEBBINGTON & SON.

PANSIES Extra fine plants, twice transplanted, \$5.00 per 1000. Geraniums, leading varieties, bud and bloom, 4 in., \$3.00 per 100. Verbenas, Mammoth, bud and bloom, 2 1/2 in., \$1.50 per 100; \$12.00 per 1000. Colens, mixed, \$1.50 per 100. HILL TOP GREENHOUSES UTICA, N. Y. Mention the Florists' Exchange when writing.

ROEMER'S SUPERB PANSIES The finest strain of Pansies in the World. Highest Award, International Exhibition, Dueseldorf, 1904. Catalogue free on application. FRED. ROEMER, Seed Grower, QUECOLINBURG, GERMANY. Mention the Florists' Exchange when writing.

Boston Ferns Extra fine stock, cut from bench, now ready for 5, 6, 7, 8-inch pots at \$25, \$50, \$75, \$100 per 100. Kentia's, Rubbers, Asparagus Plumosus Nanus. Cash or references, please. L. H. FOSTER, 45 King St. DORCHESTER, MASS. Mention the Florists' Exchange when writing.

Pandanus Veitchii 5 in. pots \$0.85 each 6 in. pots 1.00 " Specimens, 30 to 32 in. high from top of soil 2.50 " Plants finely shaped and evenly variegated. Extra good value.

BECONIAS Gloire de Lorraine, strong plants, 3 in. pots, \$25.00 per 100. Turnford Hall (new), strong plants, 3 in. pots, \$40.00 per 100. Now Ready for Delivery BOSTON FERN, 8 in. pots, \$15 per doz. PIERSONI FERN, 8 " 15 " Fine Plants. Good Value.

J. A. PETERSON, Florist, CINCINNATI, OHIO Mellery Ave., Westwood Mention the Florists' Exchange when writing. EXAMINE THIS PRICE LIST

1000 Boston Ferns, 4 in., 12c. 1000 Boston Ferns, 2 1/2 in., 4c. 100 Scottii, 6 in., \$1.00 each. 100 Scottii, 4 in., 50c. each. 100 Anna Foster, 3 in., 10c. each. 100 Sword Ferns, 4 in., 15c. 1000 Geraniums, red, 3 1/2 in., 5c. 2000 Geraniums, red, 2 1/2 in., 2 1/2c. Balm Rose, Nutmeg, etc., 40c. per doz. Ageratum, Stella Gurney, 2 1/2 in., 2c. 1000 Heliotrope, light and dark blue, 2 1/2c. 2000 Verbenas, seedlings, separate colors, 1c. 2000 Scarlet Sage, 2c. 1000 Shasta Daisies, 2 1/2 in., 3c. 2000 Clematis Paniculata, 3 year vines, 7c. 1000 Clematis Jackmanni, 2 year vines, 20c. 1000 Wistaria, blue, 3 year vines, 10c. 2000 Honeysuckle, Golden and Halleana, field-grown, 6c. 1000 English Ivy, long tops, 8c. 2000 Ampelopsis Veltchii, 2 years old, 8c. 2000 Ampelopsis, pot grown, dormant, long tops, 4c. 5000 California Privet, 2 year, transplanted, fine bushy stock, \$3 per 100; \$30 per 1000. Caladium Esculentum, Southern grown, size 7x9; bulbs, 5c.; started, 6c. 1000 Vinca Major, var., 4 in., 8c.; 3 1/2 in., 6c.; 2 1/2 in., 3c. 1000 Hydrangea Otakusa, 2 1/2 in., 3c. 1000 Hydrangea Paniculata Grandiflora, 3 year, 10c.; 2 year, 8c.; 4 year, 15c. 1000 Viburnum Pilcicum (Japan Snowball), 3 year old bushes, fine, \$2.00 per dozen. 1000 Wm. Duckham and Dr. Enguehard Chrysanthemums, 2 1/2 in., 4c. 1000 Clothilde Souppert Rose, 4 in., \$2.00 per dozen. 1000 Asparagus Sprengerii, 4 in., fine, 8c. 1000 Asparagus Plumosus Nanus, 3 in., 5c. 1000 Trioma Uvaria Grandiflora, field roots, 5c. 10,000 Shrubs, Vines and other stock. Send for all lists. Cash, please. BENJ. CONNELL, West Grove, Pa. Mention the Florists' Exchange when writing.

Araucaria Excelsa From \$1.25 to \$2.00 each. Kentia Belmoreana, from 50c. to \$5.00 each. Rubber Plants, from \$6.00 per doz. up.

WM. A. BOCK, No. Cambridge, Mass. Mention the Florists' Exchange when writing. ASPARAGUS PLUMOSUS Nice stock from 2-in. pots, \$2.25 per 100; \$20.00 per 1000; not less than 500 at 1000 rates. Rubbers, fine plants, 5-in. pots, \$3.00 per doz. Cannas. We have 5000 from 3-in. pots, ready May 1, at \$5.00 per 100, in 20 best varieties. W. W. COLES, Kokomo, Ind. Mention the Florists' Exchange when writing.

A Few Good Things You Want Dracena Indivisa, 3, 4 and 5 in., \$5.00, \$10.00 and \$25.00 per 100. Asparagus Plumosus, 2 and 3 in., \$4.00 and \$8.00 per 100. Asparagus Sprengerii, 2 and 3 in., \$3.00 and \$5.00 per 100. Geraniums, S. A. Nutt, Castellene, John Doyle, Perkins, Mme. Salleron, Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; 3 in. pots, \$5.00 per 100. Vinca Var., 2 in., \$2.00 per 100. Gladiolus Bulba, fine mixture, 75c. per 100, \$8.00 per 1000. English Ivy, nice vines, \$5.00 per 100. German Ivy, 2 in., \$2.50 per 100. Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia, Colens, red and yellow; Ageratum, blue; Alternanthera, red and yellow; Cigar Plant, 2 in. pots, \$2.00 per 100. Cannas, red and yellow, and var., 3 in. pots, \$5.00 per 100. Cash with order.

GEO. M. EMMANS, Newton, N. J. Mention the Florists' Exchange when writing.

PANSIES THE JENNINGS STRAIN. Fine stock, choice colors. Old frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order. E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies. Mention the Florists' Exchange when writing.

PANSIES COLEUS Extra fine transplanted, from cold frame, in bud and bloom, \$1.50 per 100; \$12.00 per 1000. Rooted cuttings, Golden Bedder, Crimson Verschaffeltii, 60c. per 100; \$5.00 per 1000. Cash with order.

PETER BROWN, Lancaster, Pa. Mention the Florists' Exchange when writing.

Pansy Plants From our well-known strain, fine plants in bloom, \$1.00 per 100; \$8.00 per 1000. Plants ready to bloom, \$3.50 per 1000. DAISIES (Bellis) red and white, \$2.00 per 1000. Ageratum, Sweet Alyssum, Salvia, Cigar Plants, Double Petunia, and Chrysanthemums, out of 2 1/2 in. pots, \$2.00 per 100; \$17.50 per 1000. J. C. SCHMIDT CO. BRISTOL, PA. Mention the Florists' Exchange when writing.

100,000 PANSIES SUPERB STRAIN READY NOW Fine, large Fall transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you ever handled. Cash with order. \$1.25 per 100; \$10.00 per 1000 GERANIUMS, from 3 1/2 in. pots, \$6.50 per 100 LEONARD COUSINS, JR. Concord Junction, Mass. Mention the Florists' Exchange when writing.

Chrysanthemum Stock 2 1-4 INCH POTS Pink. Per 100 Wm. Duckham, \$5.00 A. J. Ballfour, 3.00 Dr. Enguehard, 4.00 Glory of Pacific, 2.00 Maud Dean, 2.50 Mlle. M. Liger, 3.00 Mrs. Coombes, 2.50 Nemesis, 2.00 Pink Ivory, 2.00 Yellow. Col. D. Appleton, 2.50 C. J. Salter, 4.00 Cream, 2.00 Henry Sinclair, 2.50 Major Bonnaffon, 2.00 October Sunshine, 2.00 Yellow Eaton, 6.00 White. Per 100 Convention Hall, \$3.00 Ivory, 2.00 Lady Fitzwygram, 2.00 Mme. Bergman, 2.50 Alice Byron, 3.00 Nellie Pockett, 2.50 Mrs. H. Robinson, 2.50 Mrs. Jerome Jones, 3.00 Mutual Friend, 2.00 Polly Rose, 2.00 Timothy Eaton, 2.50 White Bonnaffon, 2.00 White Maud Dean, 4.00 Crimson. Black Hawk, 2.00 Dazzler, 3.00 John Shrimpton, 2.50

EDW. J. TAYLOR, SOUTHPORT, CT. Mention the Florists' Exchange when writing.

50,000 PANSIES in bloom, \$20.00 per 1000. Cash with order. L. I. NEFF, 218 Sixth St., Pittsburg, Pa. Mention the Florists' Exchange when writing.

Cyclamen Plants Seed of only selected flowers and well built stock. None better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000. C. WINTERICH, DEFIANCE, OHIO Mention the Florists' Exchange when writing.

Chrysanthemum Novelties Merstham Yellow, White Coombes, Emily Millham, Valerie Greenham, Mrs. H. A. Allen, and all other novelties 50c. each; \$5.00 per doz. Mrs. W. Duckham, the cup winner, 75c. each; \$7.50 per dozen. Send for list.

CHARLES H. TOTTY, MADISON, N. J. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS BEST COMMERCIAL VARIETIES Per 100 Strong Plants, 2 1/2 in. \$2 00 Vinca Var., R. C., \$1.00; 2 1/2 in. 2 50 Violet, Princess Wales, R. C. 1 00 Carnation, R. C. \$1.50 to 3 00 Write for List at once.

SMITH & GANNETT, Geneva, N. Y. Mention the Florists' Exchange when writing.

Chrysanthemums 2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list. R. ENGELMANN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS OUR SPECIALTY: We have an immense stock now ready for planting. Send us a list of your wants for prices.

NATHAN SMITH & SON, - Adrian, Mich. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS Rooted Cuttings from cool grown stock of the following varieties American Beauty, globular, dark pink; Wm. Duckham, Dr. Enguehard, \$4.00 per 100. Merry Monarch, white and yellow; Willowbrook, Polly Rose, Pacific, R. Halliday, Ivory, Robinson, Nellie Pockett, Bonnaffon, Lincoln, Maud Dean, Merry Christmas, \$1.50 per 100; \$12.50 per 1000. Cash with order, please. Jamalca P. O. G. F. NEIPP, Woodhaven Station Aqueduct, L. I., N. Y. Mention the Florists' Exchange when writing.

CARNATIONS ROOTED CUTTINGS Last Offer 2500 Enchantress, 1000 \$30.00 2500 Inwson, 15.00 1000 Prosperity, 15.00 500 Bradt, 15.00

GRAFTED BRIDE AND BRIDESMAID ROSES \$10.00 per 100; \$100.00 per 1000. EDW. J. TAYLOR, SOUTHPORT, CT. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS Rooted cuttings per 100, from healthy stock. Wm. Duckham, Dr. Enguehard, \$2.00; Polly Rose, Glory of Pacific, T. K. Shaw, Ivory, \$1.00; T. W. Pickett, Nellie Pockett, M. dge, Halliday, Monroe, \$1.50. Dracena Indivisa, Fall sown, transplanted, stock, \$1.25. Asparagus Sprengerii, extra fine, \$1.25. Geranium cuttings, double var., mixed, \$1.00 per 100. All stock in best condition. WILLIAM STUPPE, Westbury Station, L. I., N. Y. Mention the Florists' Exchange when writing.

20,000 CHRYSANTHEMUMS As tender as a spring chicken. Finest stock in the country. Plants standard size. Samples free on application. Prices on application. Tell us what you want. Prices lowest. HENRY EICHHOLZ, WAYNESBORO, PA. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS ROOTED CUTTINGS Lord Hopetoun, Ben Wells, Letitia Filkins, E. Bounessond, Cecil Cutts, Vivand-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Nellie Pockett, Percy Plumridge, A. J. Balfour, M. Lemon, Thirkell, White Bonnaffon, Mrs. Chamberlain, G. H. Diederichs, Dr. Enguehard, Chelton, Ida Barwood, S. T. Wright, Chevraut \$3.00 per 100. Bonnaffon, Mrs. Jerome Jones, Yellow Jones, Col. Appleton, Mrs. Robinson, Lady Harriett, Halliday, F. S. Vellis, Mrs. Coombes, Cinn, Mrs. T. M. Pickett, Marie Liger, M. Donillet, Paul Sehn, R. H. Pearson, Daskov, Ivory, Bocasse, M. Richardson, Tancred Batet, Fee Du Champagne, Mrs. Perrin, Mrs. Weeks, Col. Powell, Mayflower, O. J. Salter, White Maud Dean, Golden Wedding, Marlen Newall, Mounier, \$2.00 per 100.

CARNATIONS, ROOTED CUTTINGS. 100 1000 Mrs. Patten, \$8.00 \$50.00 The Belle, \$6.00 \$50.00 Enchantress, 3.00 25.00 Flamingo, 8.00 50.00 Boston Merk, 2.50 20.00 Nelson Fisher, 6.00 50.00 Lawson, 1.50 12.50 FERNS—Boston Ferns, 2 1/2 in., \$4.00 per 100; 6 in., \$40.00; 7 in., \$90.00. PIERSONI—3 in., 10c.; 4 in., 20c.; 5 in., 40c.; 6 in., 60c.; 7 in., \$1.00. Cash or C. O. D. W. J. & M. S. VESEY, Fort Wayne, Ind. Mention the Florists' Exchange when writing.

50,000 Chrysanthemums Dr. Enguehard, 2 1/2 in. pots, \$3.50 per 100 Rooted cuttings, \$2.50 per 100. Amorita, \$3.50 per 100. Rooted cuttings, \$2.50 per 100. Golden Wedding, Ivory, Appleton, Jerome Jones, Pacific, Polly Rose, Willow Brook, Robinson, Maud Dean, Bonnaffon, white and yellow, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000. Rooted cuttings, \$12.00 per 1000.

50,000 ROSES Kaiserin, La France, Perle, Hermosa, Clothilde Sompert, Cochet (pink and white), Ivory, 3 in. pots, \$4.50 per 100; \$40.00 per 1000. 5,000 MOON VINES 3-in. pots, \$5.00 per 100; 2 1/2-in., \$3.50 per 100. 10,000 COLEUS \$2.50 per 100; \$20.00 per 1000 SIX BEST BEDDING VARIETIES J. D. BRENNEMAN Box 24 HARRISBURG, PA. Mention the Florists' Exchange when writing.

CANADIAN NEWS

MONTREAL.—Easter business, on the whole, did not show any great increase over that of last year. Cut flowers, though, were in greater demand, and everything was sold excepting a few tulips and daffodils. American Beauty roses did not sell as readily as usual, but were cleaned up in most cases. Violets were sold out early. In plants Rambler roses and lilies were preferred; hydrangeas and spiraeas came next, with bulbous flowers selling very slowly. But few lilacs snowballs or rhododendrons were to be seen. In made-up baskets and boxes the low-priced ones sold out well, and the higher-priced pieces were left on our hands.

The florists have all been busy this week with weddings and funeral work.
W. C. H.

OTTAWA.—Easter week gave us a variety of weather—snow, frost, rain, and sunshine. Wednesday morning, the day for moving plants to the city, there was 6 degrees of frost, with snow and wind.

The demand for plants and flowers was ahead of that of other years, for cut flowers especially. Everything was cleaned out. The stock of plants in quantity and quality was ahead of other years, and everything in good condition sold, and at last many that were not good. Scrim had a plant annex, which was kept well filled from the greenhouse until Saturday noon, when there was no more to replenish with.

Graham Bros. had a grand lot of lilies, and a fine stock of everything which went. This firm was badly handicapped owing to J. Graham being sick in bed; he has been seriously sick for a week, but is slowly recovering; and, as we all know, he is a host in himself. W. Graham had our sympathy.

Good lilacs were soon out of business. There were not enough good colored azaleas. Lilies sold better than ever before. Rhododendrons fetched good prices. Spiraeas went better than formerly. Palms were nearly out of business. Pans, except of lily of the valley, were not caught at so lively as formerly; but all went. The churches used as many plants as formerly, and some were elaborately decorated. The buyers of small cheap plants were decidedly in the minority, and every year our customers seem to raise the price of their purchases. Lilies, as usual, were popular. The public does not tire of azaleas. Good lilacs were favorites. Pans of lily of the valley, when very good, go on sight. *Primula obconica* is not in it for Easter. But nothing goes with the public like a rose; any kind of plant will sell, but for an Easter plant American Beauty is ahead. All in Ottawa are satisfied with the results, and glad to get the space made vacant for Spring bedding plants.
E.

LONDON, ONT.—Easter trade was satisfactory. There was a decided advance in all lines, although much the greater increase was shown in the plant trade. In cut flowers, carnations were the popular favorites, followed by the standard varieties of roses. American Beauty were not

nearly as much in demand as is usual at this season. Violets, from some unexplained cause, do not seem to be a popular Easter flower here. In bulbous stock cut hyacinths of the miniature Dutch varieties led, followed by Von Sion daffodils. Lily of the valley was called for in moderate quantities only. Cut lilies were used in about the usual quantities for church decoration. In plants, lilies, as usual, were the leading favorites. The plants were much dwarfier than ordinary, and fears were entertained that this would have a deterrent effect on sales. It turned out, however, that but very few customers complained on this score. Azaleas were seen in quantity, and, the lateness of the season considered, they were in wonderfully good condition. Spiraea was very fine, and met with its usual popularity. Some good rhododendrons were seen, also large bottlebrush plants. There was no demand for this style of plant. Some splendid pelargoniums were shown; these enjoyed a fair degree of popularity. Bulbous stock was greatly in over-supply, and the demand, considering the quantities available, was very good.

Gammage & Sons had an extraordinary run on pelargoniums (wholesale), some buyers repeating their orders a couple of times. The plants were perfect, a fact which no doubt accounts for the demand. The wholesale lily trade was hardly up to that of former years. Cutting prices in Toronto was considered the cause of the trouble. This firm had an immense cut of carnations, but the supply was not nearly equal to the demand. Dicks had a splendid lot of azaleas. His carnation houses were in full crop, but the supply was entirely inadequate.
FRED BENNETT.

TORONTO.—Business Easter week was away ahead of that of former years; all through the week there was a steady demand both for plants and cut flowers, and the supply appeared to be unlimited. Lilies were very plentiful; the general quality of the blooms was not quite as good as usual. Nearly all the plants were short, the blooms rather small, but firm and good to handle; longiflorum were most in evidence. Azaleas were very good and rather over-plentiful; Mme. Van der Cruyssen, Niobe and Bernhard Andreas alba were the varieties mostly seen. Some fine lilac was offered, but our people do not fancy it much. Dunlop had some very pretty ericas, and although the prices asked were high, they suited the public's fancy. A few fine rhododendrons were seen; the light colors sold freest. Pot roses sold well. Nice palms and ferns, in 6 and 7-inch pots were rather scarce, and those available were soon picked up. A few good pans of hyacinths were offered, and again the light varieties quickly sold. In cut flowers the trade was exceptionally good. American Beauty roses were fine and fairly plentiful; they sold at from \$1 up to \$18 per dozen. Other roses were also both good and plentiful, and generally sold well, even the weak stuff being nearly all cleaned up. Violets were of poor quality, but went well. Carnations were very plentiful, the best brought good prices, but poor stock had to be sold cheaply. Morello tulips were abundant, but generally cleared out; the light colors sold well. Yellow narcissus was a little scarce, but white

were plentiful and nearly all sold. Lily of the valley was good and plentiful, bringing only medium prices. The large department stores used up immense quantities of stock in decorations, Eaton's big store taking 1,200 lily plants, besides other stock. All the principal stores had plants and flowers around, and on Saturday morning the quantities of cut stock in sight were enough to give a timid buyer cold feet. But at 9 o'clock but little was to be seen, and many were quite sold out. So far as I am able to judge, the business this year is quite 30 per cent. over last year's.
THOS. MANTON.

TORONTO.—Business since Easter has been very good. During the Canadian Horse Show held here last week society people used up large quantities of flowers and all our downtown florists were very busy. Wholesale prices were down, but retail prices for first-class flowers were kept right up. Our growers are sending in fine roses and carnations. Violets are nearly over for the season, excepting the few gathered from outside.

Arrangements for the chrysanthemum show here this Fall are nearly completed. The societies interested in the show of last year again united, with the addition of the Ontario Vegetable Growers' Association. The Ontario Government has made a grant of \$1,000 toward the fund, and a strong finance committee has been appointed to get subscriptions from prominent citizens to put the affair on a good financial basis. The officers appointed are: President, R. J. Scott, Toronto; vice-presidents, W. Bunting, St. Catharines, and John Chambers, Toronto; secretary, W. J. Cowan, Toronto; treasurer, J. H. Dunlop, Toronto. Several committees have been appointed, and there is no doubt the prize list will be printed in a very short time.
THOS. MANTON.

WINNIPEG, CAN.—A. H. Stopler has succeeded Richard Alston in the operation of the Royal Greenhouses here. Mr. Stopler is a German by birth, and has followed his profession in Germany, France, Belgium, Switzerland and England. He was for many years in the late Queen Victoria's conservatory at Buckingham Palace, London, and is the possessor of a royal certificate.

SAN FRANCISCO, CAL.—On the evening of April 24 Luther Burbank was given a reception by 300 high school lady teachers of the State who were in Santa Rosa attending their annual convention. The following day Mr. Burbank returned the courtesy by receiving these fair educators at his home and personally conducting them through his private experimental grounds and magnificent gardens on Santa Rosa avenue. The visitors inspected the fadeless flower, spineless cactus, Burbank rose, Shasta daisy, a myriad of lilies, the beds of poppies in which their modest host has wrought a change of color, the magnificent new amaryllis, and numerous other creations that bear the name of Burbank. The visitors voiced a resolution of thanks with a whereas that affirmed the visit to be one of the greatest educational treats the teachers of the State had ever enjoyed. On departing each one of the 300 teachers was presented with a handsome poppy bloom.
ALVIN.

St. Paul.

The Week's News.

Owing to the lateness of Easter and the unfavorable weather in April, Spring bedding stock is small and backward.

I visited A. S. Swanson's greenhouses a few weeks since and was greatly interested in the Prince of Naples rose which he has been successfully growing for several years. It evidently belongs to the hybrid perpetual class, although it shows some traces of tea blood. The flower is cup-shaped, a clear pink in color, of medium to large size, and is produced in the greatest profusion. The foliage is the finest ever seen on any rose. Planted in the benches two years ago, he will leave it there for several years longer. I have never before seen this variety mentioned by any in the trade, but the way it is grown here speaks volumes for it. Mr. Swanson was the first to grow Mme. Abel Chatenay in this section, and early discovered the great beauty and value of Dorothy Perkins for forcing purposes.

L. L. May & Co. are growing a bench of Mme. Abel Chatenay this year, but will plant several houses with this grand variety another year. It has done exceptionally well with them this year, producing continuously and bringing the highest market price at all times.

Holm & Olson are preparing to erect a new range of houses for growing carnations and roses.
VERITAS.

Cleveland.

News Items.

It is very encouraging to hear the numerous reports of good Easter trade from florists in all parts of the city.

There seems to have been plenty of stock of all descriptions, with the possible exception of violets. H. R. Carlton controlled all that were to be had around here; he sent in something like 50,000 in one week.

Speaking with Wm. Brinker the other day, about general matters of interest to the craft, the conversation turned on bulbs. Mr. Brinker says it is the consensus of opinion among florists that imported bulbs, such as hyacinths, tulips, daffodils, etc., are things of the past, viewed as a commercial product. The reasons for this condition, he says, are the high duty, the number of times the bulbs are handled, and the incidental delivery of some as flowering plants.

Chas. H. Wilson, 606 Jennings avenue, has purchased the fixtures of the Cleveland Floral Company, including a magnificent opal florists' box, which originally cost \$950.

Kirchners are preparing for a large cemetery trade this year; the outlook is very favorable.
O. G.

CLEVELAND, O.—The Commercial and Financial World of April 14 contains a write-up of the Gasser Company's flower store, paying particular attention to the new rose General MacArthur. Mr. Gasser is at present in California. The store is presided over by L. F. Darnell, whose original window displays always attract attention.

Indianapolis.

News Items.

The State Florists' Association of Indiana held its monthly meeting at the State House Horticultural Rooms Tuesday evening, May 2. No business of great importance was transacted.

The Indianapolis Plant & Flower Company is preparing for the sale of an immense quantity of peonies this year. All indications point to a large cut for Decoration Day, as the buds are now well under way and many should be in bloom by the 20th.

John Heidenreich, the popular south side florist, has announced himself as a candidate for the Council. All aware of his hustling abilities predict a victory.

F. A. Conway & Co. have opened a flower stand at the corner of Market and Delaware streets.

Fred Lemon, Richmond, was a recent visitor.
I. B.

We can't do much with a
"Just Wont" grower

who knows that all tobacco powder is the same cigar and tobacco store trash he gets at his cigar store or from his seedmen and JUST WONT ask for our booklet, that is full of the sayings of his fellows, that read:

The H. A. S. Co.—I have been using the BLACK STUFF FINE TOBACCO POWDER, on my violets, and it has given me great satisfaction.
FRED KIFFER, Northport, L. I.

The H. A. S. Co.—I have no Green Fly. THE FUMIGATING KIND TOBACCO POWDER is safe, clean and sure; a powerful fumigator.
CHAS. PETERSON, E. Liverpool, Ohio.

He JUST WONT believe that 95 per cent. of all the growers that send for our free five-pound trial sample bags of THE FUMIGATING KIND (for fumigating) and THE BLACK STUFF FINE (for sprinkling), have purchased not once, but again and again, after the trial. WHY BE A JUST WONT when you can have these free five-pound trial sample bags; yes, two of them if one won't do. All we ask is for you to pay the express charge on them. Ask now. Don't be a "JUST WONT."

THE H. A. STOOHOFF CO., Tobacco Powder Hobbyists, 116 WEST STREET, NEW YORK, N. Y.

ENGLISH IVY

Fine plants, out of 5 in. pots, 25c.
Out of 4 in. pots, 10c.
FORGET-ME-NOT.....\$4.00 per 100
DAISIES.....2.00 "
PANSIES.....2.00 "
Please send cash with order.

Chas. Zimmer, West Collingswood, Pa. N. J.
Mention the Florists' Exchange when writing.

CARNATIONS

Chrysanthemums and Violets
Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Pa.
Mention the Florists' Exchange when writing.

CARNATIONS

	GOOD STRONG CUTTINGS	
	100	1000
Hill.....	\$1.00	\$8.00
Lawson.....	1.50	13.00
White Lawson.....	0.00	8.00
Flamingo.....	1.50	13.00
Prosperity.....	2.00	15.00
Manley.....	1.50	15.00
Roosevelt.....	1.50	15.00
Apollo.....	1.00	

CHAS. T. DARLING, Stony Brook, N. Y.
Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists
RICHMOND, IND.
Mention the Florists' Exchange when writing.

J. D. THOMPSON CARNATION CO.

JOLIET, ILL.
Carnations Our Specialty
Mention the Florists' Exchange when writing.

CARNATIONS

QUEEN LOUISE.....	per 1000, \$7.50
FLORIANA.....	" 7.50
MRS. E. A. NELSON.....	" 10.00

GERANIUMS

Rooted cuttings, the next lot ready May 22.
Send for list of varieties and Summer prices.

SMILAX—SPRENGER

By the 100 or 1000, well grown and carefully packed; guaranteed to reach you in good condition. Send for price list.

ALBERT M. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

H. WEBER & SONS

announce the completion of arrangements whereby they will, beginning in January, 1906, disseminate jointly with

THE E. G. HILL CO.

THEIR TWO GRAND NEW CARNATIONS

MY MARYLAND AND JESSICA

MY MARYLAND is already well and favorably known, having been exhibited freely at the various flower shows and florist club meetings the past Fall and Winter, and in every case elicited the highest praise and most favorable comment. We pick this variety to quickly and easily displace all other whites for first honors, not alone in exhibition, but in commercial points as well. We claim for its robustness of constitution quite unequalled in any other variety and an ease of culture that will delight the heart of the grower. The great vigor of both parents (Norway x Lawson) seems united and improved upon in this variety.

CHICAGO CARNATION CO.

JOLIET, ILL.

Ours plants are now in the field.
Write us for Fall delivery.

Mention the Florists' Exchange when writing.

CAN SHIP AT ONCE ROOTED CARNATION CUTTINGS

	100	1000
White Lawson	\$6.00	\$50.00
Enchantress	3.00	25.00
Vesper	3.00	25.00
The Queen	3.00	25.00

FROM 2-INCH POTS
Enchantress - 4.00 30.00
Queen - 3.50 30.00
Fair Maid - 3.00 25.00

Larchmont Nurseries
LARCHMONT, N. Y.
Mention the Florists' Exchange when writing.

"Disappointed"

Because your order for 2500 Fiancee was filled with only 500 late rooted cuttings?"

So were we, but we are not worrying about it.

"Why not?" Oh, you see we have RED SPORT and THAT never disappoints. We will plant 2000 more of it than we otherwise should, that's all.

We have sent out 125,000 RED SPORT since January 1, ON TIME, and if we have any customer who feels he has not received full value for his money he has failed to say so.

RED SPORT has filled all the requirements of a first-class "holly-berry" red carnation, early and continuous bloomer, giving its heaviest cuts around the Christmas holidays and during the winter months when red is in demand at paying prices; a fine flower that never splits, on a long wiry stem that well supports the bloom, a strong vigorous grower, an easy doer and an all-round money-maker. We are still cutting 3000 RED SPORT bloom a week that bring top prices.

We have 20,000 plants in 2 1/4 in. pots ready for planting in the field or on the bench inside, which if kept well stopped back until September 1, will give a heavy cut for Christmas, which we can supply for immediate delivery for \$6.00 per 100; \$50.00 per 1000.

Satisfaction guaranteed
A. B. DAVIS & SON, Carnation Specialists, Purcellville, Va.
Mention the Florists' Exchange when writing.

Carnations

F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

The Beautiful Pink Carnation CANDACE

Dissemination 1906, \$2.00 per doz., \$12.00 per 100, \$100.00 per 1000. Early—commercial.

Indianapolis Flower and Plant Co. and John Hartje, Indianapolis Ind.

Mention the Florists' Exchange when writing.

CARNATIONS

	100	1000
White Lawson.....	\$8.00	\$70.00
Lady Bountiful.....	7.00	60.00
Nelson Fisher.....	7.00	
Flamingo.....	7.00	
Enchantress.....	4.00	
Boston Market.....	3.50	
General Maceo.....	3.00	25.00
Morning Glory.....	3.00	
Mrs. G. M. Bradt.....	3.50	
Golden Beauty.....	4.00	
Queen Louise.....	2.50	
White Cloud.....	2.50	20.00
Adonis.....	5.00	
Alpine Glow.....	2.50	20.00
Chicago.....	3.50	
Gold Nugget.....	3.50	
Golden Beauty.....	4.00	
Mrs. Theo. Roosevelt.....	4.00	25.00
Mrs. F. Joost.....	2.50	
White Bradt.....	5.00	
Mrs. T. W. Lawson.....	3.00	
Lieutenant Peary.....	12.00	

Own Root ROSES Fine Stock

Bride, Bridesmaid, Golden Gate. 2 1/4 in. pots, \$4.00 per 100; \$38.00 per 1000. 3 in. pots, \$7.00 per 100; \$60.00 per 1000.

GRAFTED FINE STOCK

Varities and prices same as last week.

WOOD BROS., Fishkill, New York

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS.....	\$12.00	\$100.00	LAWSON.....	\$2.00	\$15.00
CHICAGO WHITE.....	12.00	100.00	NELSON.....	1.50	12.50
RICHMOND GEM.....	10.00	75.00	MORNING GLORY.....	1.50	12.50
THE BELLE.....	5.00	45.00	JOOST.....	1.00	9.00
CRUSADER.....	5.00	45.00	HIGINBOTHAM.....	1.00	9.00
INDIANAPOLIS.....	5.00	45.00	FLORA HILL.....	1.00	9.00
BOSTON MARKET.....	2.50	20.00	QUEEN LOUISE.....	1.00	9.00
ADONIS.....	2.50	20.00	PERU.....	1.00	9.00
ESTELLE.....	2.50	20.00	G. ANGEL.....	1.00	9.00

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA, UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND.....	\$30.00	\$250.00	PERLE VON GODESBERG.....	\$5.00	\$40.00
ROSALIND ORR.....			BRIDESMAID.....	3.00	25.00
ENGLISH.....	25.00	200.00	BRIDE.....	3.00	25.00
LA DETROIT.....	6.00	50.00	IVORY.....	3.00	25.00
AMERICAN BEAUTY.....	6.00	50.00	PERLE.....	3.00	25.00
LIBERTY.....	5.00	45.00			

AMERICAN BEAUTY, bench plants, \$6.00 per 100; \$50.00 per 1000.
All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central
PETER REINBERG, 51 Wabash Av., Chicago

Mention the Florists' Exchange when writing.

DON'T FORGET

that we grow the best STOKESIA plants and the most of them. This is the reason that we can sell them cheaper than anyone else.

SOUTHERN FLORAL NURSERY CO., Fruitdale, Ala.

Mention the Florists' Exchange when writing.

DAHLIA Kaiserin Augusta Victoria

THE BEST WHITE DAHLIA IN EXISTENCE.

My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 5 in. in diameter; a wonderful bloomer, stems 12 to 18 in. long; plants 3 to 3 1/2 feet high.

A. L. MILLER, - Jamaica Avenue, Brooklyn, N. Y.

Mention the Florists' Exchange when writing.

GERANIUMS

Per 100

- 10 Vnr., fine plants, my selection, 3 in. pots \$5.00
Alternanthera, red and yellow..... 2.00
Plumosa Seedlings..... 1.50
Sprengerl, ready July 1st.

CASH OR C. O. D.

JOSEPH H. CUNNINGHAM, Delaware, Ohio

Mention the Florists' Exchange when writing.

PANSIES—200,000

Fine, large, transplanted plants, prize strain of the famous large flowering Bugnots, Caseria, Odier and Trimardean. Stocky plants, from cold frame.

YOUR OPPORTUNITY

Nice Double Geraniums, 4 in. pots, \$7.00 per 100. Vinca Variegata, 4 in. pots, \$10.00 per 100. Best varieties of double Asters, mammoth Verbenas and Salvia, in soil, 14 plants in box, \$15.00 per 100 boxes.

ENGLISH IVY

2 1/2 in., \$2.50; 2 in., \$2.00; 1 1/2 in., (2 plants in a pot) \$3.00. English Ivy Variegated, 2 in., \$2.00.

J. H. DANN & SON, Westfield, N.Y.

COLEUS

2 1/4 in., \$2.00 per 100.

HELIOTROPE

2 1/4 in., \$2.00 per 100.

W. H. PARSIL, Summit, N. J.

GERANIUMS, Etc.

In bud and bloom, ready May 1st. S. A. Nutt, La Favorite, Gloire de France, A. Ricard, Mme. Thibault, E. G. Hill, Le Pilote, John Doyle, and others in variety, 3 1/2 in. pots, \$5.00 per 100.

COLEUS

Per 100

- 12 Varieties, 2 1/4 in. pots..... \$2.00
Double Petunias..... 3.00
Seedling Petunias..... 2.50
Centorea Gymnocarpa..... 2.00
Primroses, Chinese Oboconica and Forbestii, July 1st..... 2.00

WM. KEIR, Pikesville, Md.

SALVIA BONFIRE

Have a fine lot of Salvia Bonfire, in bud and bloom, growing in 3 inch pots, \$1.00 per 100; \$35.00 per 1000.

C. JOHNSON, Box 205, Milburn, N.J.

IVY

Hardy large leaf variety, bushy, 4-5 ft. high, 6 in. pots, \$15.00 per 100. Rooted cuttings, very strong, 5-8 eyes, \$1.25 per 100; \$10.00 per 1000.

JOHN RECK & SON, Bridgeport, Conn.

200,000 Bedding Plants

First Class Stock that will please Geraniums, Nutt, Ricard, Double Oen. Grant, Buchersad Potevioe, strong 4 in., in bud and bloom, \$5.00 per 100.

WM. HERZOG, Morris Plains, N. J.

PANSIES 75,000

Fall Transplanted, large plants, in bud and bloom, an extra fine Market Strain of good colors and large bloom, \$1.25 per 100; \$10.00 per 1000; 250 at 1000 rate. Cash with order.

Charles Potter WEST BOYLSTON, MASS.

THE WEEK'S WORK.

Timme's Timely Teachings.

More Room.

The bench room gained through the sales of Easter stock, especially that occupied up to that date by such bulky plants as azaleas, hydrangeas, Boston ferns and roses, seemed considerable, and ample for all immediate needs.

Cut Flower Stock.

While some of the carnation benches look as if the plants had passed the stage of usefulness, and could now be thrown out at any time, some other varieties are just commencing to gain in health and vigor.

GERANIUMS

BEST standard varieties, in bud and bloom, for immediate sale; stocky plants; state colors wanted; from 4-in. pots, \$8.00 per 100, \$75.00 per 1000.

Baur Floral Co., Erie, Penn.

GERANIUMS

S. A. Nutt, John Doyle, Mme. Buchner, Miss F. Perkins, 3 1/2 and 4 in. pots, \$6.00, \$5.00 and \$7.00 per 100.

J. B. SHURTLEFF & SON, CUSHMAN AVENUE, REVERE, MASS.

GERANIUMS

All colors and best sorts, 4 in., \$6.00 per 100. Pansies, extra strain, large plants, 50c per 100 by mail, \$3.00 per 1000 by express.

C. WHITTON, City St., UTICA, N. Y.

GERANIUMS

Good little plants, Nutt and other best doubles, \$1.35 per 100.

COLEUS

Every effort made to have Giant and Fanny of the finest possible. Fanny, \$5.00; Giant Leaved, \$8.00 per 1000.

PANSIES Finest colors offered, in bloom, large, \$10.00 per 1000.

ALTERNANTHERA A. Nana, \$7.00; Crimson Rag, (best red), \$6.00 per 1000.

DANIEL K. HERR, Lancaster, Pa.

ASTERS Pot Crown

- Giant Purity, Hohenzollern, Cream and dark blue, Simple white, pink and purple, 2 in. pots \$1.00 \$9.00
Aster, from seed bed, by mail..... .40 2.50
Purity, Simple, 3 colors, Hohenzollern, 3 colors; Truffaut, 3 colors; Victoria, 3 colors.
Double Petunia, 3 in., in bud and bloom..... 3.00
Moonvine, 2 in..... 2.50
Cobaea Scandens, 2 in..... 2.50
Dracena Indivisa, 3 and 4 in., 16 to 18 in..... \$4.00 and 5.00
Asparagus Sprengerl, 2 in..... 2.50
Salvia, dwarf and tall, 2 in..... 2.00
Ivy Geranium, mixed, 3 and 4 in..... \$3.00 and 5.00

GEORGE J. HUGHES, Berlin, N. Y.

The untamable blood and spirit of the old outdoor carnation in them. Under the best Winter culture they pine, languish and suffer, yielding to all sorts of inexplicable diseases, and as soon as everything gets green outdoors they prick up their ears, stretch their necks, throw off every trace of illness, and put forth all their remaining strength in a wonderful display of vigor, and a crop of flowers hard to match.

It is, in nearly every case, to be considered a gain to plant all the stock intended for the coming year early. It is not any too soon to get some of the benches in readiness now for chrysanthemums and roses.

Begonia Gloire de Lorraine.

Some of the old plants of the Gloire de Lorraine begonias, set aside on a light bench, and having had a partial rest in a comparatively cool temperature, are beginning to send up now any number of short and stout fresh shoots from their base.

Geraniums.

Millions of zonal geraniums, as usual, have been raised this year, and will likely all be sold before another six weeks have gone.

GERANIUMS

S. A. Nutt, 3 in., ready 6 to 8 days later part of May, \$4.00 per 100; \$35.00 per 1000. Rooted cuttings, \$10.00 per 1000. Ready for shipment.

COLEUS Rooted cuttings, Golden Bedder, Crimson Verschaffeltii, \$5.00 per 1000. Cash with order.

PETER BROWN, Lancaster, Pa.

CRASSULA HYBRIDA

Pink flowers, 2 in. pots, \$10.00 per 100.

CRASSULA COCCINEA

Scarlet flowers, 2 in. pots, \$15.00 per 100.

Both are novelties of exceptional merit in Easter flowering plants. The stock will make specimens for next season.

H. D. DARLINGTON, FLUSHING, L. I., N. Y.
Mention the Florists' Exchange when writing.

SWEET WILLIAM

Extra fine plants, assorted colors, just coming to bud, 3 in. pots, 5c.
Coreopsis Lanceolated Grandiflora, 2 1/2 in. pots, 4c.
Canterbury Bells, 3 in., strong plants, 5c.
Asparagus Plumosus Nannus, fine stock, 2 1/2 in. pots, ready to shift, 3 1/2 c. Cash, please.

R. G. HANFORD, Norwalk, Conn.

Mention the Florists' Exchange when writing.

Salvia Splendens

3 in., \$2.00 per 100; \$20.00 per 1000.
2 in., \$1.50 per 100; \$15.00 per 1000.
Owing to loss by fire must have cash.

S. W. CAREY, North End Florist, URBANA, O.

Mention the Florists' Exchange when writing.

CYCLAMEN

Splendens Giganteum Hybrids

Finest strain in the world, in 5 true colors twice transplanted, from flats, well-grown plants, \$3.00 per 100; \$25.00 per 1000. From 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.

ASPARAGUS Plumosus Nannus, well-grown plants from 2 1/2 in. pots, \$3.00 per 100; from 3 in. pots, \$5.00 per 100; from 3 1/2 in. pots, \$8.00 per 100.

CANNAS All started, from sandbed, 2-3 eyes standard varieties, true to name, \$2.50 per 100; \$20.00 per 1000.

GERANIUMS Standard varieties, true to name, first-class grown stock, from 3 1/2 in. pots, \$6.00 per 100; from 4 in. pots, \$7.00 per 100.

Satisfaction Guaranteed

PAUL MADER, East Stroudsburg, Pa.

Mention the Florists' Exchange when writing.

COLEUS

Verschaffeltii, Golden Bedder, and 15 assorted rooted cuttings, 50c per 100; \$5.00 per 1000; 2 in. pots, \$1.50 per 100. Giant Fancy Leaf, \$1.00 per 100.

AGERATUM, Pauline and Gurney, rooted cuttings, 50c per 100; 2 in. pots, \$1.50 per 100.

SALVIA, HELIOTROPE, VINCA VARIEGATA, ALYSSUM, FUCHSIAS; rooted cuttings, \$1.00 per 100; 2 in. pots, \$2.00 per 100; 3 in \$4.00 per 100.

ALTERNANTHERAS, P. Major, \$6.00 per 1000; A. Nana, \$4.00 per 1000.

MARGUERITE Carnation Seedlings, 75c per 100; 2 in. pots, \$1.50 per 100.

PANSY PLANTS, \$1.00 per 100, \$8.00 per 1000. Small size, 50c per 100.

GERANIUMS, 4 in. pots, \$5.00 per 100.

CANNAS, 3 and 4 in. pots, \$4.00 and \$5.00 per 100.

CASH WITH ORDER.

ERNEST HARRIS, Dolansons, N. Y.

Mention the Florists' Exchange when writing.

HEADQUARTERS FOR COLEUS

Geraniums, all sold for the month of March, except Rose Geraniums at \$2.00 per 100. 2 1/2 in. pots, Fuchsias, in variety, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, \$1.50 per 100.

Coleus, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, 50c per 100. Golden Bedder and Verschaffeltii in quantities. \$5.00 per 1000.

Heliotrope, all dark, 2 1/2 in. pots, \$3.00 per 100; rooted cuttings, \$1.00 per 100.

English Ivy, 2 1/2 in. pots, \$2.50 per 100; rooted cuttings, \$1.25 per 100.

German Ivy, 2 1/2 in. pots, \$2.50 per 100.

Abutilon, Souvenir De Bonn, 2 1/2 in., \$3.00 per 100

Feverfew, 2 1/2 in., \$2.50 per 100.

Dracena, 4 in., \$8.00 per 100.

Blue Lobelia, 2 in., \$3.00 per 100; R. C., \$1.00 per 100.

Hydranden Otakusa, 4 in., \$8.00 per 100.

Salvia, 2 in., \$2.00 per 100; R. C., \$1.00 per 100.

Ageratum, Stella Gurney, Princess Pauline and others, 2 in., \$1.50 per 100; R. C. 80c per 100.

Double Petunias, 2 in., \$2.50 per 100; R. C., \$1.50 per 100. Cash must accompany the order.

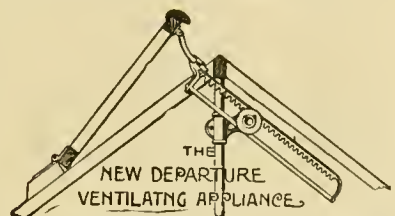
J. E. FELTHOUSEN, Schenectady, N. Y.

Mention the Florists' Exchange when writing.

plants are drawn and thin-bodied, one flower to a plant, and mostly one stem also to a 4-inch plant. The wholesale price for these is from \$8 to \$12 a hundred; from 20c. to 30c. a piece at retail. Now, what would a geranium bring of the kind we used to grow? A 4-inch plant, with four and five luxuriant stems, surmounted by trusses of buds or bloom, and studded at their base with numerous sturdy side shoots, was no rare sight on the place of a good grower, and should not be to-day. The culture of more plants than the greenhouses can accommodate, and the scarcity and high price of skilled labor nowadays, may be held responsible for the careless ways and slipshod methods in which plants of the common, but readily-selling kinds, are grown now.

Stock Plants.

The very best of the market, greenhouse and bedding plants, usually propagated from cuttings, are none too good for stock plants for an ensuing season. The grower who depends for his future supply on the stock of his own raising from well-tried good varieties, now offered for sale, should select the strongest, healthiest, most prolific plants from his general stock and set them aside for his own use in the time of propagation. It will not do to let them remain with the other plants of the same sort. They will be chosen first by the next retail buyer, and finally all the good plants will be gone and none left for stock but the very poorest, to propagate from. Growers who are satisfied with this kind of stock plants, selling as long as there is a salable plant on their place, need not wonder at the gradual but certain running out of their favorite money-earning stock. Always save the finest plants for stock. FRED W. TIMME.



COSTS LESS and does better work. Send for Descriptive Price List

J. D. CARMODY
EVANSVILLE, IND.

Mention the Florists' Exchange when writing.

Best kind, best of its kind for all hand work, is the

Success Knapsack Sprayer

Knapsack and Bucket Sprayer Combined.

Brass pump with bronze ball valves, 5 gal. copper tank, mechanical agitator; pump worked with either hand. Arranged for easy carrying and handling.

WE MAKE 20 STYLES SPRAYERS.
Hand, Bucket, Knapsack, Barrel, Field, Power. We meet all wants. Send for free catalog.

THE BEMING CO., SALEM, OHIO.
HENSON & HUBBELL,
Western Agents, Chicago.

Mention the Florists' Exchange when writing.

All NURSERYMEN, SEEDSMEN and FLORISTS

wishing to do business with Europe should send for the

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This is THE British Trade Paper, being read weekly by all Horticultural traders. It is also taken by over 1000 of the best Continental houses. Annual subscriptions to cover cost of postage, 75 cents. Money orders payable at Lowdham, Notts. Address

EDITORS OF THE "H. A."
Chilwell Nurseries, Lowdham, Notts

European Agents for THE AMERICAN CARNATION
Mention the Florists' Exchange when writing.

DRACÆNAS

20 to 30 in. high, 6 in. pots, \$2.00 to \$3.00 per doz.

VINCAS

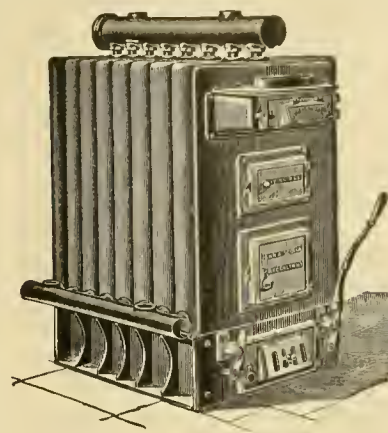
4 in., strong, \$3.00 per 100.

Pansy Plants

Large, in flower, \$1.25 per 100.

GEORGE H. BENEDICT, Yorkville, N. Y.

Mention the Florists' Exchange when writing.



SCARLET SAGE

2 in., \$2.00 per 100. Per 100

Verbenas, 2 in.	\$2.00
Alysum, Little Gem, 2 in.	2.00
Vinca Variegata, 2 in.	4.00
" " 3 in.	4.00

Also Petunias, Fuchsias, Asteras, Cosmos, Chrysanthemums, Cryptomerias, Smilax, etc.

E. I. RAWLINGS, QUAKERTOWN, PA.
Mention the Florists' Exchange when writing.

Scollay Invincible Boilers

FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.

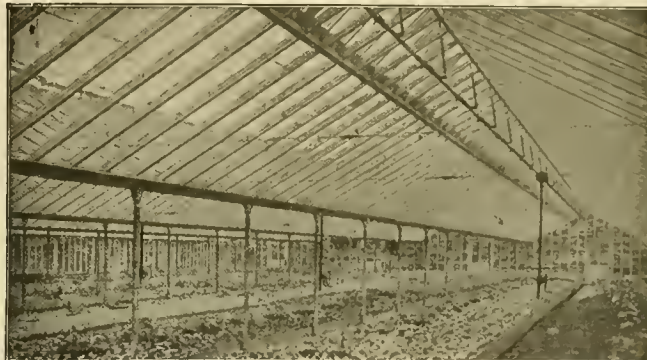
Horticultural building of every description.

JOHN A. SCOLLAY

72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.

Established 42 Years

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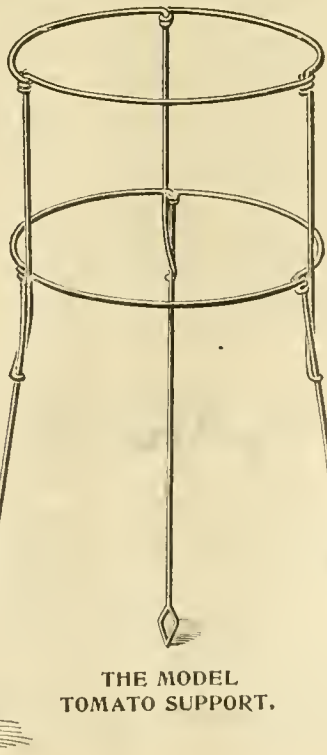
Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of Construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the best that can be Produced

Catalogue, plans and estimates free on request.

A. DIETSCH CO., Patentee, 615-621 SHEFFIELD AVE., CHICAGO, ILL.

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THE MODEL TOMATO SUPPORT.

Mention the Florists' Exchange when writing.

The Only Perfect Tomato Plant Support

Made of Heavy Galvanized Wire and will not rust.

Height, complete, 34 inches.
Height of bottom section, 24 inches.
Height of top section, 12 inches.
Diameter of circle, 14 inches.

Model Carnation Supports
Galvanized Rose Stakes
and Tying Wire

IGOE BROS.

226 North 9th Street
BROOKLYN, N. Y.

J. K. ALLEN

Wholesale Commission Dealer in Cut Flowers
Telephone, 106 W. 28 St., NEW YORK
Open at 8 A. M.
Consignments Solicited.
Prompt Payments.
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C. BONNET G. H. BLAKE BONNET & BLAKE Wholesale Florists

26 Boerum Place, BROOKLYN, N. Y.
Telephone 4638 Main.
Open every Morning at Six o'clock for the Sale of
Cut Flowers
Consignments solicited. Out-of-town orders care-
fully attended to. Give us a trial.
Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.
Coogan Building NEW YORK
Open every Morning at Six o'clock for the Sale of
Cut Flowers
Wall Space for advertising purposes to Rent
J. DONALDSON, Secretary
Mention the Florists' Exchange when writing.

JOSEPH S. FENRICH Wholesale Florist

Consignments Solicited
48 West 30th Street, New York City
Telephone No. 325 Madison Square.

FORD BROS.
Wholesale Florists
48 WEST 28th ST., NEW YORK
Telephone, 377-371 Madison Square

GROWERS, ATTENTION!
Always ready to receive Fine Stock

WILLIAM H. GUNTHER

30 West 29th Street
Phone, 551 MADISON SQ. NEW YORK
Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED
CARNATION

"VICTORY"

To be disseminated 1906. Also a complete line
of choicest flowers.

ALEX. J. GUTTMAN, Wholesale Florist
52 West 29th Street, New York
Telephone, 1884-1885 Madison Square
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HICKS & CRAWBUCK Wholesale Florists

And Dealers in FLORISTS' SUPPLIES
108 Livingston Street
Phone, 3660-3661 Main BROOKLYN, N. Y.



Telephone Call,
756 Madison Sq.
Mention the Florists' Exchange when writing.

JAMES McMAKUS Telephone 759
Madison Square 50 W. 30th St., New York
Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & THOMPSON

Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Consi-
gnments Solicited.
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FRANK H. TRAENDLY CHARLES SCHENCK

TRAENDLY & SCHENCK

Wholesale Florists
38 WEST 28th STREET, NEW YORK
AND CUT FLOWER EXCHANGE
Telephone: 798 and 799 MADISON SQUARE
CONSIGNMENTS SOLICITED
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Wholesale Florist
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NEW YORK
Consignments Solicited. Telephone, 280 Madison Sq.

All Choice Cut Flowers in Season ALFRED H. LANGJAHR

55 West 28th St., New York
Telephone 3924 Madison Square.
ESTABLISHED BUY FROM
1891 SHIP TO
TRY ME
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WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones: { 2200 Madison Square
2201 Madison Square } 57 West 28th Street, NEW YORK

Wholesale Prices of Cut Flowers, New York, May 5, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	10.00 to 20.00	Carnations	Inf'r gradss, all colors.....	.75 to 1.00
	" extra	8.00 to 10.00		White	1.00 to 2.00
	" No. 1	6.00 to 8.00		Plnk	1.00 to 2.00
	" No. 2	4.00 to 5.00		Red	1.00 to 2.00
	" No. 3	2.00 to 4.00		Yel. & Var.	1.00 to 2.00
	Bride, 'Maid, fancy—spec'l	5.00 to 6.00		White	2.00 to 3.00
	extra	3.00 to 4.00		Plnk	2.00 to 3.00
	" No. 1	1.00 to 2.00		Red	2.00 to 3.00
	" No. 2	.75 to 1.00		Yel. & Var.	2.00 to 3.00
	Golden Gate	1.00 to 6.00		NOVELTIES	3.00 to 4.00
Liberty	3.00 to 15.00	LILY OF THE VALLEY	1.00 to 1.50		
Meteor	1.00 to 6.00	MIGNONETTE, ordinary	1.00 to 2.00		
Mme. Abel Chateauy	1.00 to 6.00	fancy	4.00 to 6.00		
ADIANTUM	.50 to .75	NARCISSUS	.30 to .50		
CROWEANUM	.50 to 1.50	" Ordinary Yellow	.50 to .75		
ASPARAGUS	25.00 to 50.00	" Double Yellow	1.00 to 1.50		
Sprengerl, bunches	10.00 to 25.00	PANSIES, per dozen bunches	.35 to .50		
CALLAS	4.00 to 6.00	ROMAN HYACINTHS	1.00 to 2.00		
CATTLEYAS	40.00 to 75.00	SMILAX	12.00 to 25.00		
DAISIES	.50 to 1.50	STOCKS, per bunch	.10 to .25		
LILAO, per bunch	.25 to .35	SWEET PEAS	.35 to .50		
LILIES	3.00 to 6.00	TULIPS	.50 to 1.00		

WALTER F. SHERIDAN

Wholesale Florist
Telephone, 902
Madison Square
39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
Meteor, Lily of the Valley, Carnations
Telephone, 1998
Madison Square
JOHN I. RAYNOR, 49 West 28th St., NEW YORK

We have a fine
grade of every-
thing in market
at present.
Send us a Trial
Order and we
will do the rest.

EDW. C. HORAN
55 West 28th Street
NEW YORK
Telephone, 421
Madison Square
CUT FLOWERS AT WHOLESALE

Receiving Daily
Fine
PRES. CARNOT
KAISERINS
METEORS
BEAUTIES
Etc.

St. Louis.

The Week's News.
Grim & Sorley have opened up in
the new Columbia store at Sixth and
Olive streets.

Fred Ammann is to be congratulated
on being elected for the second time
Alderman of Edwardsville, Ill. He
helped the trade greatly last week by
sending over a fine lot of both cut
flowers and plants of longiflorum lilies,
which were eagerly sought after.

C. W. Wors has opened a retail es-
tablishment at 2241 North Market
street. He had his troubles Sunday
selling stock on the downtown corners,
especially near Fred Foster's store.

C. Young & Sons, Miss Baddaracco
J. J. Beneke, St. Louis Palm Company,
Fred Foster and the Riessen Floral
Company all report a big Easter busi-
ness.

In the northern part of the city Max
Rotter, Adolph Brix, Slater & Co. and
the cemetery florists, Koenig Floral
Company and Fred Meinhardt, had a
fine trade in plants and cut flowers.

Leon Hunt celebrated his thirty-
third year as keeper of Lafayette Park
last week. This is one of the best kept
parks here, and is not controlled by the
city.

The bowling club on Monday night
rolled three games for Easter prizes.
There were eight in attendance. C. A.
Kuehn won first and Ed Gerlach second
prize. Next Monday night the regular
average bowling will commence for the
team to represent St. Louis at Wash-
ington in August.

Fred Augermuller, formerly with C.
A. Kuehn, is now with his brother,
George Augermuller, who recently em-
barked in the cut flower commisssion
business here.

Nick Himmer, of Merrimac High-
lands, reports that during the wind
and hail storm on Friday last, nearly
all the young buds in his peony field
were broken off, which will reduce the
number of blooms by several thousand
when cutting time comes the latter
part of this month. No greenhouse
glass was broken.

The Benthley-Coatsworth Co., Chi-
cago, is consigning to Frank Ellis this
week, and will do so until the strike in
Chicago is over.

Prof. H. C. Irish, F. A. Weber, and
William Scott Hancock have been ad-
ded to the committee of the Civic Im-
provement League on tree planting.

The wind storm of last week demol-
ished some of the buildings at the
World's Fair grounds; among them the
Horticultural Building.

The bowling club will visit De Soto,
Mo., some time next week to bowl a
match with a team of that place, of
which Florists Hippard and Frost are
members, they having sent the invita-
tion to the boys here.

The meeting of the Florists' Club will
be held Thursday afternoon at 2
o'clock. The May meeting is generally
not well attended by growers, who are
very busy at this time of the year, so
the president hopes that all the retail-
ers and wholesalers will come and
swell the attendance. The show com-
mittee say they will have the prelimi-
nary list ready for distribution. Three
new members will be elected according
to the new by-laws, and a good time in
general is expected.

A special bowling match was rolled
on Monday night between Theo. Miller
and C. Kuehn against F. H. Meinhardt
and J. J. Beneke. Six frames were
rolled. Miller and Kuehn won by two
pins. The scores were as follows:
Miller, 82; Kuehn, 1,050; total of 1,942.
Meinhardt, 960; Beneke, 980; total of
1,940.

ST. PATRICK.

A. L. YOUNG & CO.
WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of
CUT FLOWERS.
Consignments solicited. Prompt settlements
Mention the Florists' Exchange when writing.

GARDENIAS, SWEET PEAS, DAISIES
and the finest AMERICAN BEAUTIES

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

SAMUEL S. PENNOCK { THE Wholesale Florist
of Philadelphia }

FRESH WILD SMILAX \$6.00
PER CASE

THE PHILADELPHIA CUT FLOWER CO., HIGH-GRADE CUT FLOWERS
1516 and 1518 Sansom St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

FANCY CARNATIONS AND ROSES **PITTSBURG CUT FLOWER CO., Ltd.**
504 Liberty Ave., PITTSBURG, PA.

NEW CROP FANCY and DAGGER FERNS

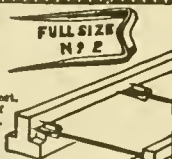
Special Quantity Prices on Application

E. A. BEAVEN, Evergreen, Alabama

READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.


Mention the Florists' Exchange when writing.

Holds Glass Firmly
See the Point **PERLESS**
FULL SIZE N.P.E.
Glassing Points are the best. No rights or 10c. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
114 Chestnut St., Phila., Pa.



Mention the Florists' Exchange when writing.

Evans Improved Challenge
Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders elsewhere.
QUAKER CITY MACHINE CO.
RICHMOND, IND.



Mention the Florists' Exchange when writing.

N. LECAKES & CO.
53 W. 28th St., NEW YORK

Tel. No. 1214
Madison Square
Stands et Cut Flower Exchange
Coogan Bldg., W. 28th Street & 34th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Lenocotthe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves
75c. per 1000.

Mention the Florists' Exchange when writing.

National Florists' Board of Trade
NEW MANAGEMENT. Tel. Call, 655 John.
HARRIS H. HAYDEN (Late Manager of the Nopere Chemical Company), President
EDWARD MOK, WRITING, Vice-Pres. and Counsel
JOHN E. WALKER, Secretary and Treasurer
56 PINE ST., Wallace Bldg., N. Y. CITY
(Rooms 611-612)

Mention the Florists' Exchange when writing.

FERNS

FANCY, \$1.50 per 1000. DAGGER, \$1.25 per 1000.

GALAX, brilliant bronze or green, 75c. per 1000, \$6.50 per case of 10,000.

Laurel Festooning, hand-made, full sizes, yard. Made fresh daily from the woods. Send us your orders. We will please you.

Branch Laurel, 35c. per large bundle.

Southern Wild Smilax, \$6.50 per 50 lb. case.

Laurel Wreaths and Prince's Pine Wreaths

Made all sizes and prices.
Prince's Pine by the lb. and made into roping. Tell us your wants and we will name you prices.
CROWN FERN CO.
MILLINGTON MASS.
Telegraph Office: New Salem, Mass.



Mention the Florists' Exchange when writing.

CALL ON **EUGENE BERNHEIMER** FOR PROMPT DELIVERY ON
Carnations, Roses and Spring Flowers 11 South 16th Street, PHILADELPHIA

MICHIGAN CUT FLOWER EXCHANGE
WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000.
DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.
Mention the Florists' Exchange when writing.

SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.

GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.

LEUCOTHE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.

Springnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per 100 lb. sack, \$2.50.

All Kinds of Florists' Supplies.
L. J. Kreshover, 112 West 27th Street, New York
Tel. 597 Madison Sq.

Mention the Florists' Exchange when writing.

JAPANESE MOSS

Packed in paper cartons. "Moss and nothing out Moss"; no sticks or dirt. Less than half the price of German Moss.

L. WERTHEIMER & CO.,
Foreign & Domestic Specialties,
39 Barclay St., New York.

Mention the Florists' Exchange when writing.

ESTAB. 1765
A. H. HEWES & CO.
NO. CAMBRIDGE MASS.
L. I. CITY N. Y.
CATALOGUE FREE



Mention the Florists' Exchange when writing.

A. J. FELLOURIS

Wholesale and Retail Dealer in all kinds of
Evergreens
Galax Bronze or Green
\$1.00 Per 1000



FERNS, Fancy, \$1.50 per 1000
Fancy, Dagger, \$1.00 per 1000
468 Sixth Ave., New York

BETWEEN 28th and 29th STREETS
TELEPHONE 400R MADISON SQUARE



"Absolutely Safe and Reliable." Ask your friends.

OUR COMPETITORS BEGIN WHERE WE LEAVE OFF

With a quarter century start of them, we are still keen for improvement, but our experience keeps us from adding foolish frills to

TANK and TOWER PLANTS

W. E. CALDWELL CO., Louisville, Ky.

NIKOTEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
WIDELY IMITATED BUT NEVER EQUALED
UNIFORM AND ALWAYS EFFECTIVE
DONT ACCEPT INFERIOR IMITATIONS
PRICE 60¢ PER BOX OF 12 SHEETS
\$6.50 PER CASE OF TWELVE BOXES.
NICOTINE MFG. CO. ST. LOUIS, MO.



Mention the Florists' Exchange when writing.

HARDY CUT DAGGER AND FANCY FERNS

\$1.50 per 1000.

WILD SMILAX, \$4.00 and \$7.00 per case.
GALAX, New crop. Green and bronze. \$1.00 per 1000.

Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelles, Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618.

Mention the Florists' Exchange when writing.



Boston.

The Week's News.

W. J. Dana, of Wellesley, one of the largest rose growers for the Boston market, has been suffering for the past few weeks with optic neuritis.

J. J. McCormick, who has opened a store on Arch street for the sale of seasonable plants, held an auction sale on Thursday of last week.

Welch Bros. are handling some very nice gladiolus from C. S. Schrader, Saratoga Springs, N. Y.

John K. M. L. Farquhar lectured before the New London (Conn.) Horticultural Society on Wednesday, his subject being Japan.

Mrs. L. H. Ross, daughter of W. W. Rawson, died at her home in Arlington, May 2.

James J. Casey, who established the Rosary Flower Store on Bromfield street a few months ago, is doing a fine business, which shows what push can accomplish by a young man, alive to his opportunity.

J. R. Fotheringham, of F. R. Pierson Co., Tarrytown, N. Y., is in town this week.

J. W. DUNCAN.

Orange, N. J.

John Hayes celebrated the twenty-fifth anniversary of his wedding at The Terraces in Llewellyn Park last Friday, April 28; 75 were present.

The entrance to Emil Decker's store is made attractive by a border of the short compact iris.

After the strenuous Easter trade A. D. Rose took to his bed.

F. W. Massman, formerly of East Orange, has secured the old established stand of Robert Chesney, 433 Bloomfield avenue, Montclair.

The New Jersey Floricultural Society discussed the prospects of a Fall show on Friday, May 5.

J. B. D.

WM. J. BAKER

Wholesale Florist

1432 S. Penn Square, PHILADELPHIA, PA.

Seasonable Cut Flowers Fine Quality

Both 'phones.

Mention the Florists' Exchange when writing.

DUMONT & CO.

Wholesale Florists

Carnations a Specialty

No. 1305 Filbert St., Philadelphia

Bell and Keystone 'Phones.

Mention the Florists' Exchange when writing.

WM. J. MOORE

Wholesale Florist

1235-37 FILBERT STREET

"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.

Bell and Keystone 'Phones.

Growers of choice Carnations and other Novelties will profit by giving me a trial.

Mention the Florists' Exchange when writing.

EDWARD REID

Wholesale Florist

1526 Ranstead Street, PHILADELPHIA

Bet. Market and Chestnut Streets

Choicest Stock Always on Hand

Telephone 1-42-26-A.

Mention the Florists' Exchange when writing.

A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty. Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO

Mention the Florists' Exchange when writing.

J. B. DEAMUD

Successor to Illinois Cut Flower Co.

Wholesale Cut Flowers

Consignments Solicited.

51 and 53 Wabash Avenue, CHICAGO

Mention the Florists' Exchange when writing.

GEO. REINBERG

Wholesale Grower of Cut Flowers

CHOICE AMERICAN BEAUTY ROSES

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Avenue, CHICAGO, ILL.

Mention the Florists' Exchange when writing.

SINNER BROS.

Wholesale Growers CUT FLOWERS and Shippers of

58-60 Wabash Ave., Chicago, Ill.

With the Flower Growers' Co.

TELEPHONE, CENTRAL 8087.

All telephone and telegraph orders given prompt attention.

Mention the Florists' Exchange when writing.

VAUGHAN & SPERRY

58-60 Wabash Ave. CHICAGO

WHOLESALE FLORISTS

All Cut Flowers at Ruling Market Prices.

Florists' Supplies

Mention the Florists' Exchange when writing.

CHARLES W. McKELLAR

Wholesale Commission Florist and Dealer in all Florists' Supplies

51 WABASH AVENUE, CHICAGO

Correspondence Invited from Growers of Specialties in Cut Flowers

Mention the Florists' Exchange when writing.

Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Phil'delphia, Pittsburg, St. Louis. Rows include A. Beauty, extra, No. 1, Chrys & Ordian, Bride, Maid, lancy-special, extra, No. 1, No. 2, Golden Gate, K. A. Victoria, Liberty, Meteor, Perle, ORCHIDS-Cattleyas, Inferior grades, all colors, STANDARD VARIETIES, FANCY, Grades of Stand. var., (NOVELTIES), ADIANTUM, ASPARAGUS, Sprengerl, bunches, CALLAS, DAFFODILS, DAISIES, FREESIAS, HYACINTHS, LILAC, per bunch, LILIES, LILY OF THE VALLEY, MIGNONETTE, NARCISBUS, PANSIES, SMILAX, SWEET PEAS, TULIPS, VIOLETS.

WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO

Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS.

Mention the Florists' Exchange when writing.

Worcester Conservatories

Wholesale Growers of

CUT FLOWERS

Prompt attention given all orders.

WORCESTER, MASS.

Mention the Florists' Exchange when writing.

Headquarters in Western New York

For ROSES, CARNATIONS

And all kinds of Seasonable Flowers.



WM. F. KASTING

Wholesale Commission Florist

ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS

383-87 Ellcott St.

BUFFALO, N. Y.

GIVE US A TRIAL

WE CAN PLEASE YOU

Mention the Florists' Exchange when writing.

J. B. MURDOCH & CO.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance 'Phone, 1435 Court.

Mention the Florists' Exchange when writing.

Pittsburg Florists' Exchange

WHOLESALE FLORISTS

and Florists' Supplies

228 DIAMOND STREET

Send for weekly price list and prices on large orders. Pittsburg, Pa.

Mention the Florists' Exchange when writing.

BOSTON, MASS.

WELCH BROS.

PROPRIETORS

CITY HALL CUT FLOWER MARKET

15 PROVINCE ST.—9 CHAPMAN PL.

Asparagus Plumosus Mignonette Chrysanthemums Lily Harrison Brides, 'Mails American Beauties

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6287 and 6288

Mention the Florists' Exchange when writing.

Kaiserins Violets Carnots Orchids Valley Carnations

H. G. BERNING

Wholesale Florist

1402 Pine Street, ST. LOUIS, MO.

Mention the Florists' Exchange when writing.

HOLTON & HUNKEL CO.

Wholesale Florists

Florists' Supplies

Manufacturers of Wire designs.

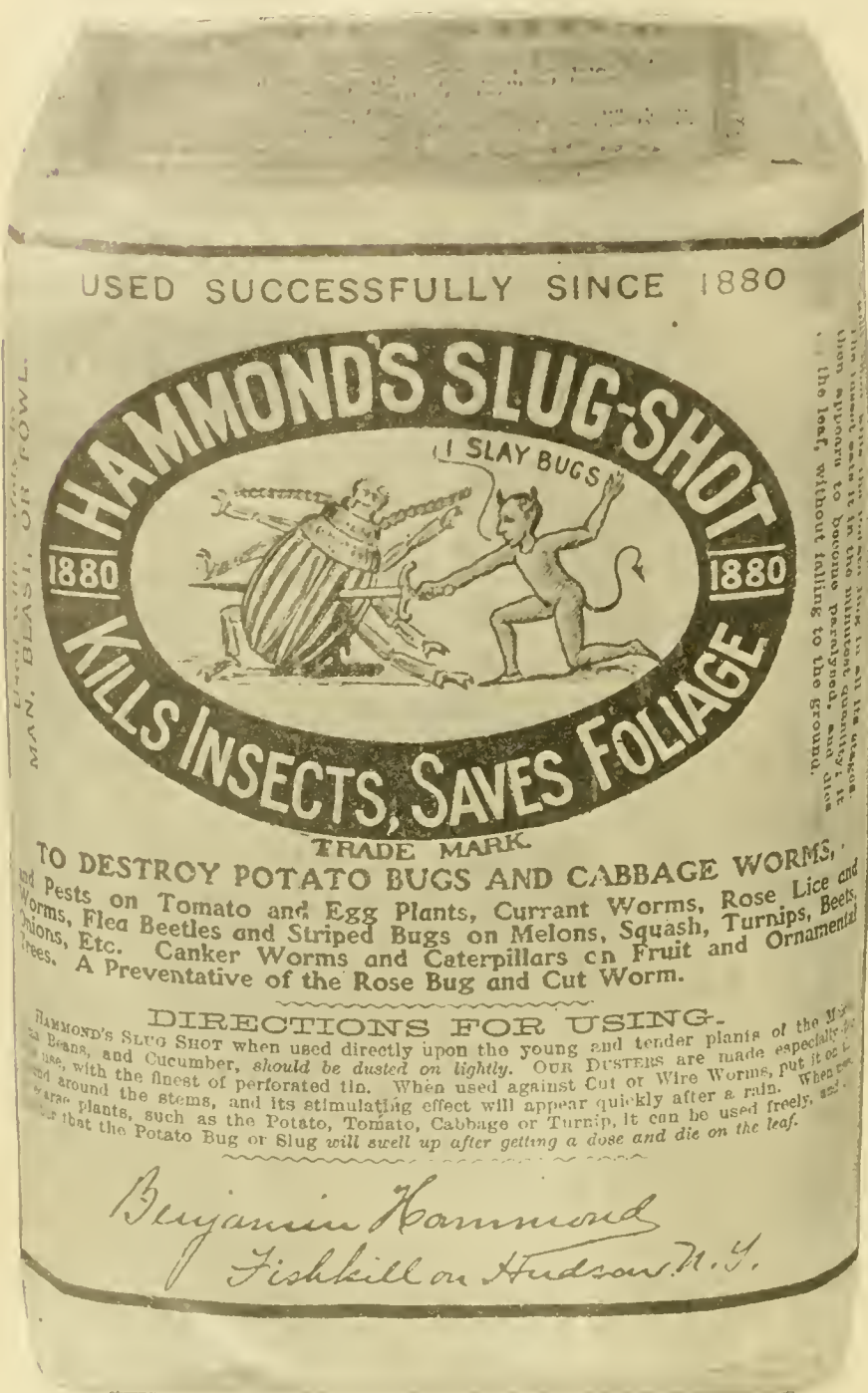
457 Milwaukee Street, MILWAUKEE, WIS.

'Phone, Main 874.

P. O. Box 103.

Mention the Florists' Exchange when writing.

Report of a Critical Test of Hammond's Slug Shot



for **POTATO BUGS,**
CURRENT and
CABBAGE WORMS,
Made in 1904

James Lawrence,
J. Reynard Lawrence.

Eden Trial Grounds
1896

Specialties:
SWEET PEAS and
POTATOES

Dear Sir:—Have been delayed in reporting on Goods you sent me for trial by severe illness. SLUG SHOT was as good, and did the work it was advertised to do as well and effectively as compounds and mixtures costing double and triple the price asked for it. For potatoes it proved especially efficient. Your BORDEAUX PULP is all right, dissolves readily and minutely so it does not clog nozzles of finest sprayers. Your AMMONIATED COPPER SOLUTION saved my melon vines (musk). It was not a case of preventing blight, but of checking it after it had developed and to quite an extent. I shall be glad to use and commend your goods another season.

Yours truly,
(Rev.) J. REYNARD LAWRENCE, North Middleboro, Mass.
Nov. 21, 1904.

TWEMLOW'S
LIQUID PUTTY
and
Greenhouse White Paint

For Price List and Pamphlets, write to

B. HAMMOND
Fishkill-on-Hudson, N. Y.

Kalamazoo, Mich.

Death of Mrs. Dunkley.

The announcement of the death of Mrs. Dunkley on Wednesday last came as a surprise to all the trade. The deceased lady had been managing the Dunkley Floral Co. since the death of her husband, Joseph Dunkley, several years ago, and was well known and respected by the trade throughout Southwest Michigan. The concern is one of the oldest in the city, and enjoys the patronage of a number of leading residents. Mrs. Dunkley, who was 68 years of age, and a native of Grand Rapids, was a member of the S. A. F. O. H., and a frequent attendant at the conventions. The funeral on Saturday was largely attended. The business will probably be continued on behalf of the members of the family, although under what management has not yet transpired. Five children survive her.

News Notes.

John Calder has disposed of his business to Mr. Meyer, who takes possession on June 1. He will remove it to a location across the road from the cemeteries on Riverside, which he has just purchased, and where he is busily employed making ready for business. The gentleman is a newcomer to our city, but seems to be the right sort of a hustler, and we hope to be able to report a continuous success for him.

The death of Dr. Edwards, of the State Asylum for the Insane, caused a very large call for flowers of all kinds, and probably more money was spent than on any one funeral before.

Van Bochove & Bro. are progressing very fast on their new range, which will soon be ready to plant. The firm will also carry a line of high-grade nursery and ornamental stock; also herbaceous plants. S. B.

Philadelphia.

News Items.

Mr. Hoskins, of Hoskins & Giles, Reading, Pa., died on April 28 and was buried May 1. This firm has a store in Reading, with greenhouses just outside that city.

Frederic H. O'Neill, 56 North Seventh street, agent for Hitchings & Co., New York, has secured from McClintock & Weaver, contractors and builders, the contract for erecting and heating an iron frame greenhouse 52 feet long by 20 feet wide for Thomas J. Ryan, Esq., Elkins Park, Pa. DAVID RUST.

LYNCHBURG, VA.—A. Brosch, 1723 Monroe street, will sail about the middle of June on a four months' visit to his old home in Prague, Austria, after an absence of twenty-five years. He will be accompanied by his daughter, Theresa.

HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.

C. S. WEBER & CO.

10 Desbrosses St., New York

Mention the Florists' Exchange when writing.

CEMENT BENCHES

NIAGARA CEMENT & CONCRETE CO.
NORTH TONAWANDA, N. Y.

Mention the Florists' Exchange when writing.



The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

Mention the Florists' Exchange when writing.

Sold by Seedsmen all over America

Mention the Florists' Exchange when writing.

GREENHOUSES.
MATERIAL FURNISHED
AND
MEN TO SUPERINTEND
ERECTION IF DESIRED.
CYPRESS SASH BARS
ANY LENGTH UP TO 32 FEET OR LONGER.
THE A. T. Stearns Lumber Co.,
NERONSET, BOSTON, MASS.

Mention the Florists' Exchange when writing.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

GIBLIN & CO., Utica, N. Y.

Mention the Florists' Exchange when writing.

GLASS

For Greenhouses, Orangeries, Hotbeds, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

N. COWEN'S SON,

392-94 W. Broadway, NEW YORK.

Mention the Florists' Exchange when writing.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

DILLER, CASKEY & CO.

SUCCESSORS TO JENNINGS BROS.

S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

Mention the Florists' Exchange when writing.

MASTICA

FOR Greenhouse Glazing



USE IT NOW.

F. O. PIERCE CO.
170 Fulton St.,
NEW YORK

Mention the Florists' Exchange when writing.

CYPRESS



JOHN C. MONINGER CO.
111-125 Blackhawk St.
Cor. Hawthorne Ave.
CHICAGO, ILL.

Mention the Florists' Exchange when writing.

CASPER LIMBACH GREENHOUSE GLASS

A SPECIALTY

Window Glass. Painters' Supplies.

32 Washington Ave., Pittsburg, Pa.
31st Ward.

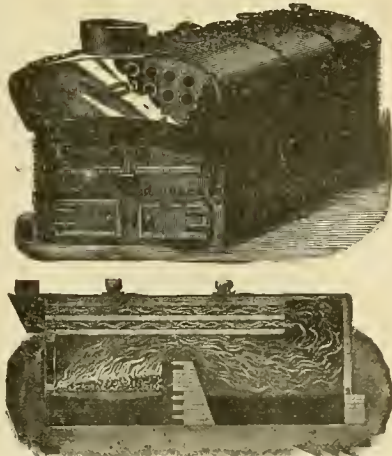
Mention the Florists' Exchange when writing.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention the Florists' Exchange when writing.

EUREKA GREENHOUSES

Send for catalogue Greenhouse Material, Composition Posts
Get the best

DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

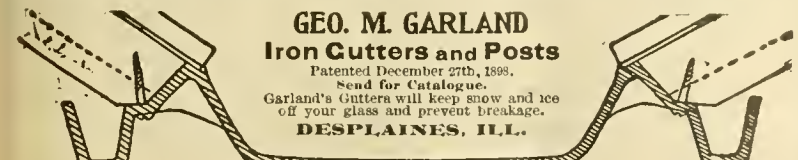
GEO. M. GARLAND

Iron Cutters and Posts

Patented December 27th, 1899.
Send for Catalogue.


Garland's Cutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.
Mention the Florists' Exchange when writing.

"Special" Greenhouse Putty



Made from pure linseed oil and kiln dried whiting, absolutely unadulterated. Works easier than others, therefore more readily applied. The Best Putty for

Quality, Durability and Economy

It costs a little more than other makes, but lasts longer. Try a sample lot and be convinced.

Write for price and particulars to

Lord & Burnham Company

New York Office, St. James Bldg., B'way @ 26th St.
General Office @ Works, Irvington-on-Hudson, N.Y.

Mention the Florists' Exchange when writing.

GREENHOUSE MATERIALS

The Best Quality and Work Guaranteed.

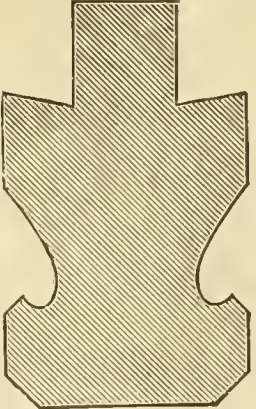
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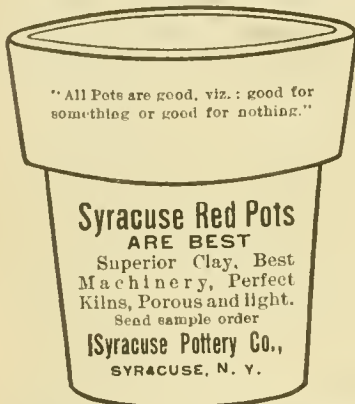


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Vol. XIX. No. 19

NEW YORK, MAY 13, 1905

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Strong plants, which if planted at once will bloom freely this summer. We offer a list of extra choice varieties at \$2.00 per dozen; \$12.00 per 100, as follows: Margaret Dickson, Baroness de Rothschild, Ulrich Brunner, Magna Charta, Mrs. John Laing, Prince Camille de Rohan, Capt. Christy, Jules Margottin, Perles des Blanches, White Mass, Rugosa Alba, Rugosa Rubra, etc., etc. Also

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Iron Cross Clematis The steel blue flowers grow in the form of the famous German Iron Cross, measuring 3 to 4 inches across in a dense form intermixed with the buds. A very robust and vigorous grower, although of semi-dwarf habit. Blooms from early summer until late fall. 4-in. pot plants, 60c. each; \$5.00 per doz.

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Duchess of Edinburgh. Double white.
Henryi. Large single white, very large flower.
Jackmanni. Dark, royal purple; most popular single variety.
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For the Trade

A full line in Manilla, Fibre and Laid papers, white, amber and colored. Printing in large or small quantities, one or more colors, with cultural directions and with or without cuts. Samples and estimates on application.

The Brown Bag Filling Machine Co.
Bag Dept.

PITTSBURG, MASS.

Mention the Florists' Exchange when writing.

CINERARIA GOLD MEDAL MIXTURE

Tall or Dwarf, 1/2 trade packet, 60c.; trade packet, \$1.00.

PRIMULA Fringed Chinese

Alba Magnifica, Chiswick Red, Blue, Kermesina splendens, striped or mixed, 1/2 trade packet, 60c.; trade packet, \$1.00.

ALL OTHER SEASONABLE SEEDS. Let us figure on your wants in

FALL BULBS

HENRY PHILIPPS SEED CO.
TOLEDO, OHIO

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We are now booking orders for

- LILIUM HARRISII
- LILIUM LONGIFLORUM
- ROMAN HYACINTHS
- PAPER WHITE NARCISSUS, &c.

Apply for prices, stating number wanted

- CYCAS REVOLUTA, \$8.00 per 100 lbs.
- COLD STORAGE VALLEY PIPS, in cases of 3,000, at \$10.00 per 1000.

J. M. THORBURN & CO.

36 Cortlandt St. New York
Mention the Florists' Exchange when writing.

NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.
Mention the Florists' Exchange when writing.

PRIVET Half Price

12-15 inches \$7.00 per 1000 | 2-3 ft. \$15.00 per 1000
 18-24 " 12.00 " | 2-3 ft., 3-year 20.00 "

The above offer is good only when this advertisement is mentioned.

HYDRANGEA, P. C.

In quantity. Prices and sizes on application.

IVY

Field-grown and pot plants, \$5.00 and \$8.00 per 100.

300,000 ROSES

2 and 4 in. pot plants. Prices and varieties on application.

THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

AMERICAN SEED TRADE ASSOCIATION.—The next annual convention will be held at Alexandria Bay (Thousand Islands), N. Y., June 20 to 22. The present outlook is that there will be a large attendance.

MINNEAPOLIS, MINN.—The Prior Seed Company is erecting a row of brick stores in this city.

ROCKFORD, ILL.—A local newspaper is responsible for the information that Hiram W. Buckbee, the well-known florist and seedsman, has decided to write a book on the raising and handling of seeds and the cultivation of flowers. He intends to start on the book in June.

PHILADELPHIA, PA.—W. Atlee Burpee and Howard M. Earl sail to-day, Saturday, May 13, by steamship Patricia for Hamburg. They will travel together in Denmark and, possibly, Sweden; then, separating, will visit different seed growers on the continent and in England.

SYRACUSE, N. Y.—The seed trade here does not fluctuate as in many places where "novelties" are the leading cards; but is a steady private and market gardeners' business, associated with which is that of every kind of farm and garden implements. F. H. Ebeling reports a very good trade.

ROSE HILL, N. Y.—The seed trade in this place has kept up better than those most interested anticipated. F. B. Mills, in common with most others doing a mail business, says it has not kept up with that of former years, but is very satisfactory, and is now on the increase. This is the home of the ginseng industry, which Mr. Mills says is a growing one, as it would seem after taking a hasty glance at the acres covered with lattice frames under which it is grown. It has generally been supposed that the demand for the dried roots was wholly a foreign one. This is a great mistake, as orders from our own country druggists are very considerable and on the increase.

COLDWATER, N. Y.—The Joseph Harris Company, upon the foundation the founder laid, has built up a profitable and increasing business. This company are not only dealers, but growers of very much of the stocks they sell, as well they may, for a more beautiful farming country, with a soil and situation admirably adapted to seed growing, cannot be found in this country, which is equivalent to saying it cannot be found anywhere. The soil is a deep and lively loam, thoroughly drained, in which plants of all kinds delight to grow. The firm's trade, which is largely with the truckers or market gardeners, is constantly increasing, and one those in the trade are eager to secure.

BEANS.—To know beans would be a fortune. During the early Winter the prices of some varieties, particularly Wardwell's kidney wax, were marvelously high. Now the query from all sides is "Do you not want a few bushels at reasonable rates?" At the same time the demand for the late Refugee is equally great, and the prices beyond the reach of the buyers.

ASPARAGUS

100	1000	5000
Plumosus nanus, fresh	.....	\$0.30 \$2.00 \$8.75
Sprengerl.	.....	.15 1.00 4.00
KONTA	.....	.50 4.00 15.00
Cocosa Weddeliana	.....	.75 5.00 20.00
ARECA LUTESCENS	.....	received .50 4.00 17.50
Primula sinensis limb., separate colors	.....	.20 1.75
Primula obovata, white or rose, pkt., 25c.	.....
Primula, Baby, Forbest, pkt., 25c.	.....
Cineraria hybrida max. grandiflora, pkt., 25c.; 5 pkts., \$1.00.	.....
Fernspores, best mixed, 25c.; 5 pkts., \$1.00.	.....
Fernspores in any of florists' sorts, separate. Send for list. Address	.....

H. H. BERGER & CO.
47 Barclay Street, New York
Mention the Florists' Exchange when writing.

BULBS

For Forcing

Virginia-grown Narcissus and Daffodils
POAT BROS., Bulb Growers
 ETTRICK, VA.
 Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.
 Mention the Florists' Exchange when writing.

NARCISSUS

For Early Forcing

We have at our nurseries extra large stocks of Emperor, Ornatus, and other of the leading varieties. Write for our list of reduced prices.
HUBERT & CO. N. LEPAGE, Rep.
 Mt. Vernon, N. Y.
 Mention the Florists' Exchange when writing.

WANTED

A reliable firm as Agents to sell our BERMUDA LILY BULBS on commission.

Stock guaranteed and ability to meet all competitors.
 References required.

R. DARRELL & Co.
Hamilton, Bermuda

Mention the Florists' Exchange when writing.

Michell's Prize Seeds

These strains of CINERARIAS AND PRIMULAS are the finest that can be procured from the best European and American specialists.

CINERARIA GRANDIFLORA
 Prize Dwarf..... \$0.50 \$1.00
 Medium Tall..... .50 1.00
 James Giant strain..... .50 1.00

PRIMULA SINENSIS
 Alba Magnifica, White..... .50 1.0
 Halborn, Blue..... .50 1.0
 Kermesina Splendens..... .50 1.0
 Rosy Morn, Pink..... .50 1.0
 Michell's Prize, Mixed..... .50 1.0

For a complete list of Seasonable Seeds consult our Wholesale Illustrated List, mailed free to all Florists. Write for a copy.

HENRY F. MICHELL CO.
 Seed Growers and Importers
 1018 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

ROEMER'S SUPERB PANSIES

The finest strain of Pansies in the World
 Introducer and Grower of all the leading Novelties
 Highest Award, International Exhibition, Düsseldorf, 1904. Catalogue free on application.

FRED. ROEMER, Seed Grower,
QUEDLINBURG, GERMANY.

Mention the Florists' Exchange when writing.

XXX SEEDS

PRIMROSE IMPROVED CHINESE
 Finest grown, large-flowering, fringed, single and double, 15 varieties, mixed, 500 seeds, \$1.00; half pkt., 50c. Have the varieties separate also.

CINERARIA Finest large-flowering dwarf, in best mixture, 1000 seeds, 50c.
PRIMULA OBOVATA, New large-flowering fringed, mixed, 1000 seeds, 50c.

PANSY GIANT, The finest large-flowering varieties, critically selected, 5,000 seeds, \$1.00; half pkt., 60c.
 500 seeds of "Giant Mme. Perrett" added to every \$1.00 pkt. of Giant Pansy Seed.

CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.
The Home of Primroses

Mention the Florists' Exchange when writing.

FISCHER'S GRAND PURITY FREESIA

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Bulbs no larger than dried wax beans of this grand Freesia make as large a flower as the large bulbs, only the stems are shorter. All growers should try some of this Queen of Freesia, for when "once grown always grown." Price for large bulbs, \$1.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y.
Mention the Florists' Exchange when writing.

DWARF BOX

3 to 5 in., \$25.00 per 1000; 2 to 4 inches, \$20.00 per 1000.

Specimen Evergreens In fine assortment. Call and see them.

HIRAM T. JONES, Union County Nurseries ELIZABETH, N. J.

RHODODENDRON MAXIMUM

and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES, North Abington, Mass

NOTICE

To whom it may concern: RALPH M. WARD & CO., New York City, having purchased my crop of Bermuda Harrisii Bulbs for the season of 1905, have the sole right to sell them in the American and Canadian markets and to offer them as

PENISTON'S BERMUDA HARRISII

March 31, 1905.


CLARENCE PENISTON, Hamilton, Bermuda

RED CLOVER.—The Maine Agricultural Experiment Station and the Department of Agriculture have been making a study of red clover seed obtained from various sources to determine the best seed for general farm purposes. In most cases, the best results in the germination tests were obtained from seed grown in the higher regions of central Europe—though two lots of seed from Bohemia showed rather low vitality in the soil tests. The most vigorous seeds seemed to be those from Upper Austria, Styria, Hungarian Transylvania, and Russia; while one lot from England and that from Denmark were specially low in vitality. Seed from Brittany showed a high percentage of germination (sprouting) at Washington, but was rather low both in the blotting paper and in the soil tests at the station. Of the American seed tested, that from Ohio and Illinois was, in this trial, the strongest.

GROWING SWEET CORN SEED IN THE SOUTH.—Says Farmers' Bulletin 222, Experiment Station Work: "There is a popular belief that sweet-corn seed can not be grown year after year in the South without deterioration in quality. Some light has been thrown on this subject recently by the investigations of the Maryland station. That station has found that in a State as far south as Maryland at least as good or better sweet-corn seed can be and is grown for use within the State as can be grown in New England. The yield obtained in Maryland from Maryland-grown seed is considerably higher than the yield obtained when Connecticut seed is used. Not only is the yield higher, but repeated observation has shown that the quality of the crop was as good, if not better, and that the plants from home-grown seed stood the climatic changes much better than those from northern-grown seed."

European Notes.

The disagreeable conditions reported in last week's notes continued throughout the Easter holidays and made everybody feel very glum. As the fly still continues its ravages, the greater part of our time since work was resumed has been taken up with making fresh sowings for our 1906 crops; and,



WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
12 W. Broadway, NEW YORK

Mention the Florists' Exchange when writing.

as there are indications of a welcome change approaching, the waste of stock seed and the labor involved may be our only loss.

The destruction among our plants for 1905 crop of high class rutabagas has been great; how far this will affect prices next season cannot be determined until we know the full extent of the demand for present sowings. But the great advance in the price of sugar beet in France and Germany, and wheat in England, will add to the difficulties now experienced with the growers. It is admitted on all hands that prices are much too low, and that no one would suffer if they were once more placed on a remunerative basis all round.

A very determined effort is being made this season to increase the sale of the various forms of the star cinerarias, but the general verdict appears to be that they are too weedy in habit; and, owing to the lack of substance in the flowers, the colors are too dead for them to be of any service except as foils. The variously named cactus, Ixion, Stella strain, is practically condemned.

Our various exhibitions are abundantly supplied with new and, in many cases, beautiful forms of narcissi; but the prices demanded by the raisers do not admit of their being handled by seedsmen.

A grand novelty from Thibet was exhibited on April 25 at the Royal Horticultural Hall in London, in the form of a large pale yellow colored poppy, named *Meconopsis integrifolia*. As it is no doubt quite hardy it should find its way into the seedsmen's catalogues very quickly. Other interesting exhibits at the same meeting were: *Anemone fulgens bicolor*, a splashed and striped flower very similar in color to sweet pea America; *Anemone*

DORMANT TREES

And Plants

Fruits and Ornamentals, including Ampelopsis, Dutchman's Pipe, Wistaria, Roses, Clematis, Shrubs, etc. See our Spring Price List for prices and variety.

W. & T. SMITH COMPANY, GENEVA, N. Y.

Mention the Florists' Exchange when writing.

fulgens, The Queen, a pale rosy red; *Ranunculus asiaticus*, wild form from Palestine, identical in color with *Anemone fulgens*, but with shorter and broader petals, the individual flowers growing on stems about 15 inches long. All these will be available for the seedsman in due course. The last named is very effective and beautiful. The ranunculuses were grown from plants collected between Jerusalem and Bethlehem by Arthur W. Sutton, Reading.

EUROPEAN SEEDS.

Asparagus Plumosus Nanus

1905 Crop, equal to greenhouse-grown, \$1.50 per 1000 seeds.

A. ABERCROMBY, Los Angeles, California
Station D

Mention the Florists' Exchange when writing.

1905 Crop Now Ready ASPARAGUS SEED

Plumosus nanus, lath-house grown, \$1.75 per 1000. *Sprengeri*, 75c. per 1000.

SMILAX SEED, \$1.25 per lb.

E. FLEUR
Oak Grove Nurseries
406 North Los Angeles Street, LOS ANGELES, CAL.
Mention the Florists' Exchange when writing.



QUALITY SEED BULBS PLANTS
SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
342 West 14th St., New York.

Mention the Florists' Exchange when writing.

NEW Flower Seeds CROP

ASTERS—Best German Grown

	4 oz.	Oz.
Queen of the Market.....	\$.15	\$.50
Victoria.....	50	1.75
Giant Victoria.....	60	2.00
Paeony Fl. Perfection.....	45	1.50
Samples' Branching, Home-Grown.....	20	60

Above in Separate Colors or Mixed.
Fresh Tobacco Stems.....\$1.50 per bale of 300 lbs.

W. C. BECKERT, Allegheny, Pa.
Mention the Florists' Exchange when writing.

Summer Flowering BULBS

	100	1000
<i>Ismene Grandiflora</i>	\$6.00	\$50.00
Madeira Vines.....	1.00	8.00
Spotted Callas.....	3.00	25.00
<i>Tritoma Fitzeri</i>	7.00	60.00
Gladioli, mixed, 1 1/4 in. diam.....	.60	6.00

HEADQUARTERS FOR LILIES, APOIS, CALADIUMS, ETC.
Eight per cent. discount for cash.
Special price on large quantities.

JOHN LEWIS CHILDS, Floral Park, N. Y.
Mention the Florists' Exchange when writing.

HARDY ROSES

From 2 1/2 inch Pots

All the leading varieties of Hybrids and Ramblers now ready for delivery. Price, \$4.00 per 100; \$30.00 per 1000. Send cash with orders under \$10.00.

W. & T. SMITH COMPANY, GENEVA, N. Y.

Mention the Florists' Exchange when writing.

CANNAS Started, strong plants
Allemania, Austria,
Italia, P. Marquant, Robusta, etc., \$3 per 100.
Dahlia, Strong Bulbs, Best Cut Flowers named,
\$3.50 per 100.
Shellroad Greenhouses, Grange P. O., Balto, Md.
Mention the Florists' Exchange when writing.



Catalog Engravings and ILLUSTRATIONS
that print EASILY. That's the kind we make—have been since '79.
JAS. M. BRYANT, Horticultural Engraving and Printing
706 Chestnut Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

EVERGREENS Large Assortment

Specialties—White Pine, Hemlock and Large Evergreens. Spring list for details.

Andorra Nurseries
Wm. Warner Harper, Prop. CHESTNUT HILL, PA.

Mention the Florists' Exchange when writing.

BOBBINK & ATKINS

Nurserymen and Florists

VISITORS INVITED.
Ask for Wholesale Catalogue. RUTHERFORD, N. J.

Mention the Florists' Exchange when writing.

Large Evergreens

All the leading kinds from 2 to 7 feet high, perfect form. Write for prices.

DAK PARK NURSERIES, Patchogue, L. I., N. Y.
M. F. TIGER, Proprietor.

Mention the Florists' Exchange when writing.

BEAUTIFUL GROUNDS

An illustrated manual containing suggestions on Lawn Making, Planting and care of Shrubs and Trees, with names and descriptions of varieties hardy and of merit. Also information regarding Landscape Plans, Topographical Surveys, etc. A book you will often refer to. Send for it today. Free on application.

PETERSON NURSERY
505 W. Peterson Ave. CHICAGO, ILL.
Mention the Florists' Exchange when writing.

Azalea Amoena

Ornamental Trees and Shrubs in Great Variety
Ask for Trade List

SAMUEL C. MOON, Morrisville, Pa.
Mention the Florists' Exchange when writing.

KOSTER & CO.

Hollandia Nurseries **BOSKOOP, HOLLAND**
Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.
RHODODENDRONS, H. P. ROSES, Etc.
Catalogue free on demand.

Mention the Florists' Exchange when writing.

GLADIOLUS PLANT NOW

Strictly 1st size bulbs, sound and unspouted.

Red Shades	100	1000	Groff's Hybrids	100	1000
Pink Shades	\$1 25	\$10 00	All Colors, Mixed	\$1 50	\$11 00
White and Light	1 00	9 00	Extra Fine, "	75	6 50
Striped and Variegated	1 50	12 00	Childsil, "	1 25	10 00
	2 00	18 00		1 75	15 00

25 at 100 rate; 250 at 1000 rate.

VAUCHAN'S SEED STORE

84 & 86 Randolph St., Chicago

14 Barclay St., New York

Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

PAINESVILLE, O.—The Storrs & Harrison Company are doing the biggest business in the history of this long established concern, taxing the local capacity of the express company to the limit.

A FLOURISHING SOCIETY.—The annual membership roll of the Minnesota State Horticultural Society now contains 1688 members, and adding to these life members brings the total membership at this time up to 1832, which is 164 more than last year at this time.

GENEVA, N. Y.—Local nurserymen are having difficulty in obtaining help for the planting of stock this Spring. This scarcity of help applies more to boys than men. The nurserymen attribute the scarcity of boys this Spring to the more stringent compulsory educational laws.

J. H. Hale, the well-known nurseryman of Glastonbury, Conn., is being boomed by several agricultural periodicals as a likely successor to the late Senator Orville H. Platt. One paper states: "In 1891, wholly

Propagating Magnolias.

Sales of Spring stock are not nearly over yet, still it is in order to prepare for further propagation. In the line of magnolias there is no better way than layering. Budding, grafting and other methods are employed to some extent, but the old way of layering is the most solid of all. This is the time to cut back almost to the ground the stocks desired for layering purposes. Take some real heavy plants and cut them back to but a few eyes above the ground. This will cause the growth of strong, young shoots, which are just the sort needed for layering. The work should be done as soon as the shoots are of length enough to permit of it. If put down early, they will be nicely rooted by Fall, but should not be cut off from the parent plants before Spring. Old hands at propagating aver that but little is lost by allowing the layers to remain undisturbed for two years. In this way, too, the old plants are permitted to have a year's rest from layering, strengthening them, as the cutting down and layering the same plants year after year weakens them. This will lead propagators to have two sets of plants for layering, working one set one year, the other the next, which is much the better plan.

When propagating keep in mind the desirability of Magnolia Lenei. All the early flowering sorts, led by M. Soulangiana, are good sellers, but a more than good one is M. Lenei, and for these reasons: It is one which bears very large, cup-shaped, purplish-red

Figs In Gardens.

Were it remembered how easily figs may be grown in our gardens the bushes would be seen there much oftener than they are. There is no trouble at all in growing and fruiting them. It is true, they will not endure our Winters, but it is as easy to protect them when cold weather approaches as it is to protect rose bushes or decorative plants for lawns. All that is required is to throw the bushes over, to lie flat on the ground, and cover them with a few inches of soil. There is no need to dig them up entirely. Partly dug on one side, as if it was to be transplanted, permits of a bush being thrown over and covered. In my own case, I dig them out entirely, and take them to another part of the grounds to Winter them. A hole is dug as if for planting the roots. These do occupy the hole, but the plants are prostrate with the ground, and are so covered over with soil. The little figs which are just perceptible when buried are those which give the first crop. Two crops ripen here; the second one comes from the figs formed on the shoots first made. Our seasons are not long enough to permit of the ripening of a third crop. The figs form, but do not perfect themselves. If nurserymen would add figs to their lists of fruits and call the attention of customers to them, a good business could be done selling them.

Figs are easily raised from hard wood cuttings, set out in early Spring; and they are in fruiting condition in three or four years.

In England, figs are grown in tubs or pots. Not over much root room is given them, and growers find a little old mortar in the soil suited to the requirements of the plants.

Trumpet Vines as Shrubs.

As a vine the trumpet vine is well known, and when in the height of its flowering, in late Summer, a well-developed specimen of it is a glorious sight. For the covering of old trees, rough walls and like objects, it is most useful. For the walls of dwellings it is not so well fitted, being of a too sturdy nature to harmonize well with surroundings.

The use of this vine to form a shrub is not often made, at least not as often as it should be. When seen in such a shape it is interesting and beautiful. The large trumpet-shaped flowers are in display for many weeks. The flowers are in clusters, and one of a bunch succeeds another; and as every vigorous shoot will have a bunch of flowers at its end, the display is very fine.

The commonest trumpet vine is Bignonia radicans. This is our wild one, native of the Middle States, and the one usually seen in collections. But there are varieties of it, some with flowers darker red than the type; and, recently, an entirely different one—a yellow flowered variety—has appeared in cultivation.

One of the showiest of all these bignonias is the Chinese species, B. grandiflora. This has flowers more yellow than our native one, B. radicans; the flower tube is shorter, while the mouth of the flower expands more than the other. It seems to have found its way to Germantown very many years ago, judging by the very large vines of it to be seen here and there on walls.

The Southern one, B. capreolata, is of an evergreen character and does not bear close resemblance to the others. It is, in fact, classed separately by botanists. They make it a true bignonia; the others, our trumpet vines, are called tecoma. B. capreolata lives out in Germantown. Some years ago "Gardening" had an illustration of one in full flower, covering to the eaves the wall of a house there. The color of the flowers is a light orange.

The way to make shrubs of bignonias is to stake a vine, using a stout stake and seeing that it is maintained for some years, until the vine can support itself, when the "shrub" is formed.

Trumpet vines are increased from root cuttings and by grafting on pieces of root. Nurserymen do not like grafted plants for their own use, as it renders the mistake easy of propagating from roots which may not be those of the one it was thought to be. For setting out on private grounds it makes no difference.

JOSEPH MEEHAN.

To Grow Drug Plants and Herbs.

S. C. Hood, of the Bureau of Plant Industry, United States Department of Agriculture, Washington, D. C., a graduate of the University of Vermont in 1904, has returned to Burlington to take up the work in drug plants carried on by the experiment station in co-operation with the Department of Agriculture for the last two years. It is intended to grow, in part upon the new college property purchased from the Ainsworth estate and in part on other grounds many annual and perennial drug plants and garden herbs. The prominent feature of the work will be, as it has been for the past two years, the growth of the opium poppy with a view of determining the possibilities of the production of morphine in New England.

Pyrus Floribunda.

This flowering apple attains sometimes the dimensions of a small tree, and, as its specific name indicates, produces flowers in great abundance. The flowers are of a beautiful rosy-red color. The fruit is long-stalked, and in size resembles a pea. This is a very ornamental and showy species.

Glen Cove, L. I.

JOHN F. JOHNSTON.



PYRUS FLORIBUNDA, IN FLOWER MAY 16, 1904

Photo by J. F. Johnston

without his knowledge or consent, enough votes were pledged to Mr. Hale to elect him to the United States Senate in place of Mr. Platt, but Mr. Hale absolutely refused to consider the proposition and advised his friends to vote for Mr. Platt, which was done and O. H. Platt served in the National Senate up to the time of his death last week." Mr. Hale is as popular to-day as he was then.

Propagating Daphne Cneorum.

The hardness of the Daphne cneorum, together with its half-prostrate growth and lovely, sweet-scented, rose-colored flowers, or rose in the bud and pink when expanded, have made it a plant much used for the bordering of beds of larger growing shrubs, such as rhododendrons, azaleas and kalmias. The flowers come in early Spring, and for sweet odor can hardly be excelled. This daphne delights in a light, sandy soil. In fact, it may be all sand for planting in, if a good mulching of manure be placed over the face of the sand. In this sand the plants will root freely, and if they be set deep enough, roots will be made by the buried branches, and in this way propagation is easy. Another method of propagation is by grafting, using the D. mezereum as a stock. The plants unite well and D. cneorum grows well on it. The grafting is often done in Winter indoors, but may be done at other times, as convenient. Still another way is by cuttings, rooted in a greenhouse, using half-ripened wood for the purpose.

As a pot plant, kept in a cold frame all Winter and brought to heat early in Spring, they sell well, being desirable in so many ways.

flowers, differing from all others in the color and form of flower, when it flowers fully ten days later than the other early flowering ones, bringing up the end of the season, and always escaping the late frosts, which so often catch the very early sorts. I do not remember that M. Lenei was ever caught by frost, though the earlier ones often are.

Huckleberry Branches.

One of your advertisers, I see, calls attention to a new decorative subject, which he terms "huckleberry branches" and which, he says, is largely used by the florists of the Pacific Coast as a most elegant decorative green. Is not this what is called the Oregon grape, Mahonia aquifolia, also called evergreen huckleberry? If it is—and the description of your advertiser fits it fairly well—it has been recommended several times by me. Should it not be the mahonia it still remains to be said that the mahonia is a very good thing for florists' use, where shining green, lasting leaves are required.

In our climate the foliage suffers in Winter, although the shrubs push out green and fresh-looking when Spring comes; but on the Pacific Coast the foliage holds good the season through.

It is not altogether unknown among our florists, small supplies being obtained from cultivated plants; but without a doubt it could be used in larger quantities were it obtainable at all seasons, as should be possible when secured from the Pacific States or from nearby agents who may keep it.

AT A SACRIFICE

SURPLUS BULBS

FOR PRESENT PLANTING

Table listing various bulb types and prices, including Gladiolus, Gloxinias, Cannas, Caladiums, Montibretias, Spotted Callas, Yellow Callas, Red Callas, Begonias, and Amaryllis.

Ask for Complete List of Perennials, Dormant Roses, &c.



Prices of Gold Storage Lilium Bulbs For delivery any day in the year. One whole box sold at Thousand Rate.

SHOULD BE PLANTED NOW FOR EARLY FALL SALES

Table listing Gold Storage Lilium Speciosum varieties and prices, including Longiflorum Giganteum, Longiflorum, and Speciosum Rubrum.

Oncidium Varicosum Rogersii

JUST RECEIVED FROM COLLECTORS NEW IMPORTATION

This Orchid is undoubtedly one of the most profitable commercial varieties grown. It throws three-foot stems bearing as many as 170 blossoms of a rich golden yellow...



CLUCAS & BODDINGTON CO., SEEDS, BULBS AND PLANTS

131 West 23d Street, NEW YORK

Mention the Florists' Exchange when writing.

Importers, Exporters and Growers of

PALISADE NURSERIES SPARKILL, N. Y.

STRAWBERRY PLANTS

Strong young plants, well packed, Wm. Belt-Downing, Bubach, Haverland, Brandywine, Gandy, Bismarck, Nick Omer, New York, Lester, Lovett, Success, Roba, Robbie, Joe, Marshall, Climax, Fairfeld, Storm's Late, Champion, Sharpless, 50c. per 100; \$2.50 per 1000.

CHAS. BLACK, Hightstown, N. J. Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mention the Florists' Exchange when writing.

SWEET POTATO PLANTS

NOW ready, a large stock of stout, healthy plants. CEDARVILLE, an improvement of Yellow Nansemond. An abundant bearer of handsome, rich, yellow tubers of medium size and comely shape, \$1.00 per 1000.

A NEW POTATO EARLY GOLDEN SWEET

In this we have the Ideal Sweet potato for early market and home use. The color is a beautiful golden yellow, very sweet and palatable and a tremendous yielder of uniform tubers of just the proper shape and size, \$1.25 per 1000.

BIG STEM JERSEY

Early, bright yellow and very productive, \$1.50 per 1000. PIERSON Extremely early and the greatest yielder of any variety in cultivation. The tubers are light yellow or straw colored, of good shape and fair quality; a splendid keeper, \$2.00 per 1000.

Grows in true bush form, yellow, productive, of good shape and fine quality, \$2.25 per 1000.

Red Nansemond, or Red Jersey \$1.50 Per 1000. Pierson, Hayman, Early Red, Spanish, Belmont, Nauey Hill, Vineland Bush and White Bunch, 50c. per 100, postpaid.

H. AUSTIN - Felton, Del.

Mention the Florists' Exchange when writing.

F. & F. NURSERIES

Wholesale Growers TREES AND PLANTS in full assortment Trade Catalogue Free

Mention the Florists' Exchange when writing.

AMERICAN TREE SEEDS AND PLANTS

Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it.

OTTO KATZENSTEIN & CO. Tree Seeds and Plants Specialists, ATLANTA, GA.

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August Rölker & Sons, 31 BARCLAY STREET, New York

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Deliveries.

Mention the Florists' Exchange when writing.

Advertisement for Ellwanger & Barry featuring the word 'TREES' in large stylized letters and text about fruit trees, small fruits, and ornamental trees.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS

ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

CHOICE PRIVET 3 year old, Dormant, Beds just started. Just right for shipping and planting this month. Strong 12 to 20 branches, 12 to 2 1/2 feet. Terms Cash. Packing free. Atlantic Coast Nurseries, Office 606 4th Ave., Asbury Park, N. J.

Mention the Florists' Exchange when writing.

W. J. ELDERING & SON

Bulb Growers and Wholesale Dealers, OVERVEEN, (HAARLEM) HOLLAND. Headquarters for High grade Hyacinths, Tulips and Daffodils. Prices sent on application. Special quotations on receipt of quantities required.

Represented by G. C. ELDERING, at the Netherlands Club, 47 E. 25th St., New York, until June 15th.

Mention the Florists' Exchange when writing.

CAPE JESSAMINE

Fine Grandiflora buds, 75c. per 100; \$6.00 per 1000.

Are packed to ship anywhere in United States or Canada, and guaranteed to arrive in good condition. Season now open; closes about June 15. Your orders solicited.

ASA WRIGHT, - ALVIN, TEXAS.

Mention the Florists' Exchange when writing.

BOXWOOD

For Edging

Bushy, transplanted plants, 6-8 in., per 100, \$6.00.

O. V. ZANGEN, Hoboken, N. J.

Mention the Florists' Exchange when writing.

BURBANK'S PHENOMENAL BERRY TIPS

\$2.00 Per Dozen \$10.00 Per 100

Send for Price List, Illustration and Description to

A. MITTING

Kennon Street SANTA CRUZ, CALIF.

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.

Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.

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VAN DER WEIJDEN & CO.

The Nurseries, BOSKOOP, HOLLAND Growers and Exporters of fine Nursery and Florist stock: Rhododendron, Azalea Indica, Ornamentals, Conifers, Roses, Shrubs, Peonies, Pot-grown Plants, etc. Catalogue free on demand. Address all correspondence to MR. D. G. WIEGAND BRUSS, care of MALTUS & WARE, 14 Stone Street, N. Y.

NO AGENTS. For the trade only.

Mention the Florists' Exchange when writing.

SALVIA

Silverspot and Bedman, fine big plants, \$2.00 per 100; medium size, \$1.00 per 100.

ROBUSTA CANNAS, in 3 in. pots, fine and strong, \$3.00 per 100, to clear them out.

CRIMSON RAMBLERS, fine, \$1.00 per 100.

DRACENA INDIVISA, 4 in., \$10.00 per 100.

CASH WITH ORDER.

WILLIAM KEIR, Pikesville, Md.

Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON

JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

Dreer's Select List of HARDY PERENNIALS

We offer here only the most Showy and Decorative Sorts, including varieties suited for CUT FLOWER purposes. These varieties are marked with an asterisk (*).

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List.

This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

Table listing various plants such as Achillea, Adonis, Agrostemma, Anemone, Arisaema, Asclepias, Aster, Campanula, Carduus, Ceanothus, Cerastium, Chelone, Clematis, Coreopsis, Dianthus, Digitalis, Echinops, Erigeron, Galium, Geranium, Gladiolus, Gypsophila, Helianthus, Hibiscus, Iris, Lysimachia, Lythrum, Monarda, Myosotis, Nicotiana, Nigella, Phlox, Ranunculus, Rosa, Rudbeckia, Salvia, Saxifraga, Sedum, Senecio, Sparganium, Statice, Stipa, Thalictrum, Trollius, Urtica, Veronica, Viola, Yucca, etc., with prices per dozen and per 100.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS	\$12.00	\$100.00	LAWSON	\$2.00	\$15.00
CHICAGO WHITE	12.00	100.00	NELSON	1.50	12.50
RICHMOND DEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIDINBOTHAN	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
BOSTON MARKET	2.50	20.00	QUEEN LOUISE	1.00	9.00
ADONIS	2.50	20.00	PERU	1.00	9.00
ESTELLE	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA, UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	PERLE VON GODESBERG	\$5.00	\$40.00
ROSALIND ORR			BRIDESMAID	3.00	25.00
ENGLISH	25.00	200.00	BRIDE	3.00	25.00
LA DETROIT	6.00	50.00	IVORY	3.00	25.00
AMERICAN BEAUTY	5.00	40.00	PERLE	3.00	25.00
LIBERTY	5.00	45.00			

AMERICAN BEAUTY, bench plants, \$5.00 per 100; \$40.00 per 1000.

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central

PETER REINBERG, 51 Wabash Av., Chicago

Mention the Florists' Exchange when writing.

CHICAGO CARNATION CO.
JOLIET, ILL.

Our plants are now in the field. Write us for Fall delivery. Mention the Florists' Exchange when writing.

J. D. THOMPSON
CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty
Mention the Florists' Exchange when writing.

	GOOD STRONG CUTTINGS	100	1000
Hill	\$1.00	\$8.00	
Lawson	1.50	13.00	
White Lawson	8.00		
Flamingo	4.00		
Prosperity	1.50	13.00	
Manley	2.00	15.00	
Roosevelt	1.50	15.00	
Apollo	1.00		

CHAS. T. DARLING, Stony Brook, N. Y. Mention the Florists' Exchange when writing.

CARNATIONS
Chrysanthemums and Violets
Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Pa. Mention the Florists' Exchange when writing.

E.G. HILL CO.
Wholesale Florists

RICHMOND, IND. Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION

Price, \$3.50. Send for Sample Pages

A. T. DE LA MARE PTG. & PUB. CO. Ltd., 2-8 DUANE STREET, NEW YORK

RED SPORT

The Great Christmas "Hollyberry" red Carnation. Most profitable red ever introduced, and an easy doer, everybody can successfully grow it. Strong plants from 2 1/2 in. pots, ready to plant in field or on bench inside. \$6.00 per 100; \$50.00 per 1000.

A. B. DAVIS & SON Carnation Specialist. PURCELLVILLE, VA. Mention the Florists' Exchange when writing.

Carnations

F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

The Beautiful Pink Carnation

CANDACE

Dissemination 1908, \$2.00 per doz., \$12.00 per 100, \$100.00 per 1000. Early-commercial.

Indianapolis Flower and Plant Co. and John Hartje, Indianapolis Ind. Mention the Florists' Exchange when writing.

ROBT. C. PYE
Carnations
NYACK, N. Y.

Mention the Florists' Exchange when writing.

The Lewis Conservatories
MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist
Mention the Florists' Exchange when writing.



Indoor Culture.

There is a constantly growing tendency toward indoor culture, brought about by the demand for first-class, long-stemmed blooms early in the season. Instead of planting directly in the houses now, I prefer to have the young stock shifted to 3 1/2-inch pots, and put outside in frames for a month or so. Be sure to plunge the pots up to the rims to prevent excessive drying out, and give them a little space both ways. If you have not got the frames they can be built very cheaply. Take some 2x4-inch lumber, saw in pieces 18 inches long and sharpen one end; then stretch lines along where you wish to put the frames, and drive the 2x4s four feet apart, leaving six inches out of the ground. Take common fence boards for the sides and nail them to the 2x4 pieces. You will then have a good shallow frame any length desired. A shallow frame is preferred to a deep one for plunging carnations, as it admits more light and air and does not shade the first row of plants. After the carnations are in the frames continue to water carefully. Do not over-water. It is best to grow the young stock a little on the dry side, while in the frames. This induces a strong healthy growth, and keeps the roots in a healthy, vigorous condition.

The sun and wind will cause the soil to appear white and dry, but upon examination the soil at the bottom of the pot will be found wet enough. In that case, give them a heavy spraying; this will give the bottom a chance to dry out and at the same time keep the soil moist on top and prevent it cracking around the edge of the pots. When the plants are dried out evenly to the bottom of the pots, give them a good heavy watering and then let them alone for two or three days, except a spraying to keep the soil moist on top.

The soil for the houses should have been piled in ridges in the field last Fall or hauled and piled up at the end of the houses in which it is to be used. Add about one-quarter old manure to the soil pile, and then turn it over, chopping it up fine as you do so. This mixes it up thoroughly, and it is then ready for use when needed.

Black sod soil with some clay is ideal for most varieties of carnations. Cardinal and Prosperity do best in a heavy rose soil.

I prefer to wait until after June 1 to

plant inside, for two reasons, namely: Carnations are lovers of fresh air, and we cannot give as much air in the greenhouses as they get in the frame; and if the old plants are given good care and plenty of liquid manure, they will be yielding good returns even after June 1. But generally, after Decoration Day, both the demand and the price slacken up to some extent, and it is time enough then to throw out the old plants and get the young ones planted.

After the benches are empty, clean them and give them a coating of white-wash, which helps preserve the wood and keeps the benches nice and clean. Our benches are six inches deep, and we find that it pays to fill them full, firming the soil along the edges of the benches. Even then the soil will have settled about two inches by Spring. Plant the young stock firmly, 8 inches apart in the row and the rows 12 inches apart. This distance will be about right for most varieties. For nice, large plants, leave a depression around each one and water only at the plants for about two or three weeks after planting. This keeps the soil nice and sweet and encourages root action. Spray the plants early in the morning, and again in the afternoon to keep a nice moist air in the house. These sprays should be heavy enough to keep the soil moist on the top of the benches. Whenever weeds begin to appear go over the benches and loosen up the soil with the hand, thus keeping it fresh. A very light shading may be applied during the very warm weather; not that young plants really need the shade, but it helps keep down the temperature and prevents the benches drying out so often. Leave the ventilators wide open at night after the young stock is planted; even if the temperature does go down to 46 or 48 it will not hurt them. On some places the ventilators are closed down to about six or eight inches every night during the Summer for fear of wind and rain, thus shutting out an abundance of fresh air, when there are, perhaps, a half dozen or a dozen nights that the ventilators really need to be closed. If the place is small, appoint one of the men to attend to closing the ventilators in case of storms, and on a large place it will pay to have a night watchman for that purpose.

Now that the planting in the field is about finished it is time to get the hand cultivators started. Do not wait for the weeds to appear on the ground to get hard and crusty, but put a good, steady man in the field with a hand cultivator at once. As soon as he is finished cultivating them one way, let him cultivate them the other, or crossways. We endeavor to have our carnations in the field cultivated twice a week, or three times in two weeks at the very least, and find it a good investment. It not only kills the weeds, but holds the moisture and discourages the growth of surface roots, which are always the first to suffer during a drouth. Go over the plants every week or two and pinch and shoot that need it. Do not wait until the plants are in bloom and then make a clean sweep of it. Better go over them often. G. W. FRENCH.

CAN SHIP AT ONCE
ROOTED
CARNATION
CUTTINGS

	100	1000
White Lawson	\$6.00	\$50.00
Enchantress	3.00	25.00
Vesper	3.00	25.00
The Queen	2.00	15.00

FROM 2-INCH POTS

Enchantress	4.00	30.00
Queen	3.00	25.00
Fair Maid	3.00	25.00
Salvia		
Heliotrope } 2 1/2 in.	2.50	20.00
Tuberous Begonias, 4 in. up, very fine,		
\$10.00 per 100.		

Larchmont Nurseries
LARCHMONT, N. Y.
Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS

Nice stock from 2-in. pots, \$2.25 per 100; \$20.00 per 1000; not less than 500 at 1000 rate.

Canada: We have 100 from 3-in. pots ready May 1, at \$5.00 per 100, in 20 best varieties.

W. W. COLES, Kokomo, Ind. Mention the Florists' Exchange when writing.

ROOTED CUTTINGS LAST CALL

Strong Stock to Make Plants Quick prepaid per 100.

Ageratum, Gurney, 50c. Coleus, assorted, 80c., \$5.00 per 1000. Salvia, Bonfire, and Splendens, 80c., \$7.50 per 1000. Giant Marguerite Daisy, 75c.

Seedlings, Dreer's Seed, Verbena, Giant Mixed, Salvia, Bonfire and Splendens, 25c. per 100, prepaid. Alternanthera, red, 2 in., 15c.

50,000 Earliest White, Queen of Market, mixed; Giant Comet, mixed; Victoria, giant mixed; Supleux's Branching, white pink, purple. Nice Stock, 40c. per 100; \$3.50 per 1000; prepaid for 5c. per 100 extra. Cash.

BYER FLORAL CO., Shippensburg, Pa. Mention the Florists' Exchange when writing.

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- Abercrombie A... 632 Jackson J H... 659
Akers H R... 660 Jackson & Perkins Co... 639
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- Weber H & Son... 647 Woterson E F Co... 677
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INDEX TO STOCK ADVERTISED

- a, col. 1; b, col. 2; c, col. 3; d, col. 4.
Abutilon... 639-48-50-52
Acalypha... 648
Achillea... 635-39



EASTER DISPLAY OF ROBERT SMITH, PATERSON, N. J.

- MISCELLANEOUS.
Baskets... 630c
Boilers... 649-58-50-60
Books... 632-44-47

Easter Decoration in Porto Rico

The accompanying illustration should prove of great interest to our readers as a sample of a church decoration in tropical Porto Rico.

A good suggestion to Northern decorators would be the use of these leaves; they are majestic, and make fine displays.

FLOWERING AND BEDDING PLANTS

The following is a surplus list of plants in 2 1/2-in. pots, and in a strong and healthy growth.

- Marguerite Carnations, \$1.50 per 100.
Coleus, 12 choice varieties, \$3.00 per 100; rooted cuttings, \$1.00 per 100.
Rex Begonias, 12 varieties, \$7.00 per 100.

CHANGES IN BUSINESS.

- HUDSON, MICH.—John Allwood has started in business here.
WHEELING, W. VA.—Q. J. Huston has opened a flower store on Diamond street.

Contents.

Table with 2 columns: Item and Page. Includes entries like American Peony Society (p. 644), Business Difficulties (p. 649), Carnations (p. 636), etc.

CHAS. C. NAVLET CO., INC. Florists and Seed Growers SAN JOSE, CAL. Mention the Florists' Exchange when writing.

ROSES.

La Detroit, 3 in.	Per 100	\$8.00
American Beauty, 3 in.		6.00
Perle, 3 in.		5.00
Mme. Chatenay, 3 in.		5.00
Bride, 3 in.		4.00
Bridesmaid, 3 in.		4.00
Sunrise, 3 in.		4.00

C. R. HILLS, GRAND RAPIDS, MICH.

Little Gem Alyssum, in bud, 2 1/2 in.	Per 100	\$2.00
Colleen Scandora, 3 in., strong.		3.50
Forget-Me-Not, Everblooming, 2 1/2 in.		2.00
Cuphea, 2 1/2 in.		2.00
German Ivy, 2 1/2 in.		2.00
Nicotiana Sanders, 2 1/2 in.		\$1.00 per doz.

WATCH FOR OTHER OFFERINGS.
Mention the Florists' Exchange when writing.

ASTER PLANTS.

Bentley's Famous Asters, extra fine stock, from late, \$1.00 per 100, \$8.00 per 1000; from 2 1/4 in. pots, \$2.00 per 100, \$17.50 per 1000.
Hohenzollern, Carlson's, American Branching and Queen of the Market, from late, 80c. per 100, \$5.00 per 1000; from 2 1/4 in. pots, \$1.50 per 100, \$12.50 per 1000.
Will have Primulas for July delivery. Chlaese Obconca, Forbeisland Buttercup, 2 1/4 in., \$2.00. Write.

Philadelphia.

News Items.

This week has been a quiet one; there is but little going on and the market is glutted with flowers.

Pennock Brothers have a very pretty window decoration. The bottom is filled with forget-me-nots; the upper part is a maze of streamers of light blue, narrow ribbon. It is very effective and attractive.

H. Bayersdorfer will sail for Europe on the 18th, on his annual trip.

Bowling matters are looming up strong at the Florists' Club, a tournament being now in full swing. There are six teams of five men, and three matches are being played each week.

As the teams are as evenly matched as possible, the tournament will be very interesting, and also be the means of showing up the best material for the convention team.

The bowling club, which was formed some years ago, with the object of encouraging bowling for the S. A. F. conventions, but which eventually resolved itself into a social affair and has practically been out of existence for the past two years, had about \$100 dollars in the treasury. It has now been decided to finally wind up the club, and on Tuesday next, all those who contributed to it will go down to Essington, on the Delaware River, where there will be a shooting contest and other games during the afternoon and a dinner at night. A royal good time is looked for.

In response to several inquiries, Easter in 1906 comes April 15.

DAVID RUST.

New Rose Wellesley

Own Root Plants, \$25.00 per 100.

Waban Rose Conservatories, NATICK MASS.
John N. May, Summit, N. J.

Mention the Florists' Exchange when writing.

Fine Bridesmaid Roses

2,000 fine Bridesmaid and Bride, from 3 1/4 inch pots, \$6.00 per 100.

CASH WITH ORDER.
J. HORAN & SON, Bridgeport, Conn.

Mention the Florists' Exchange when writing.

READY NOW

Gen. MacArthur

The most prolific flowering Red Rose in the market to-day. Grows finely in same temperature as Bride or Bridesmaid, and will produce fully as many first-class flowers as either.

2 1/2 in. pot plants, own roots, \$10.00 per 100; \$80.00 per 1000.
Strong grafted stock, from 3 in. pots, \$12.00 per 100.

THE STORRS & HARRISON CO., Painesville, O.

Mention the Florists' Exchange when writing.

ROSES.

Own Root Stock.

2 1/2 INCH POTS.

Bride, Bridesmaid and Meteor.	\$30.00 per 1000
American Beauty	\$50.00 per 1000
Liberty	\$40.00 per 1000

Not less than 250 at 1000 rates.

Bedding Plants.

We also have a fine lot of double and single PETUNIAS, SALVIAS, COLEUS, Golden Bedder, Verschaffeltii; dwarf LANTANAS, ACHYRANTHES, VINCAS, LOBELIA, CANNAS, DRACENA INDIVISA.

Write for varieties and prices.

LAKEVIEW ROSE GARDENS, Jamestown, N. Y.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS.

2 1/2 INCH POTS.

Glory of the Pacific, Polly Rose,	\$2.50 per 100.
Alice Byron, Lady Harriet, Pink Ivory, White Ivory, J. K. Shaw, Harry Parr, White Bonnafant, Cobb and Maud Dean,	\$3.00 per 100.
Robert Holliday, Yellow Queen, Chadwick, Golden Beauty, R. E. Richardson, Nagoya,	\$4.00 per 100.
Josephine, a grand midseason yellow,	\$6.00 per 100.

New Varieties.

2 1/2 INCH POTS.

We recommend these three grand varieties: Chantauqua Gold, yellow, midseason, fine, \$8.00 per 100.
Dr. Enguehard, Wm. Duckham, at \$10.00 per 100.

KAISERIN

Strong, Healthy Plants

3 in. pots	\$7.00 per 100
2 1/2 in. pots	5.00 per 100

THE LEO NIESSEN CO.

1217 Arch Street, PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

ROSES

Grafted Bride and Bridesmaid. Good stock. Write for prices.

Sheep Manure

Pulverized. Free from all Adulteration. In Bag, \$18.00 per Ton.

Special price on car load lots in bulk.

ROBERT SIMPSON

Clifton, N. J.

Mention the Florists' Exchange when writing.

ROSES

Marie Van Houtte	Solfaterre
Maman Cochet	Gruen an Teplitz
White Cochet	Marie Guillott
Yellow Cochet	F. Kruger
Hermosa	Perle des Jardins
Marechal Niel	Mme. Welch
Meteor	Safrano
Climbing Meteor	Lamarque
Burbaek	White La France
Clothilde Soupert	Striped La France
Etoile de Lyon	Climbing Wootton
Ivory	Duchess of Albany
Golden Gate	Helen Gould
Bride	Papa Gantier
Bridesmaid	Chateaux
Duchesse de Brabant	Folkstone
Bon Stone	Medis
Agrippina	Antoine Rivoire
Pillar of Gold	Malmalson
	Clara Watson

From 2 1/2 in. pots, clean, healthy stock; packed light and free; satisfaction guaranteed.

Terms Cash, please.

Do not send personal checks.
Price \$2.50 per 100; \$20.00 per 1000.

R. H. MURPHEY & SON, Urbana, Ohio

Mention the Florists' Exchange when writing.

Buffalo, N. Y.

News Jottings.

It is given out that Mr. J. J. Albright will directly erect several houses on his grounds in this city.

The city park interests received something of a set back for this year in the cutting down of appropriations deemed quite necessary for properly caring expenditures, so new improvements will be quite nominal of extent.

A trip in suburban directions, last week, showed a fine lot of geranium plants at C. B. Shisler's in Williams-ville, who inclines to further court the business of growing cuttings for the trade, and for which some further building is contemplated this year. At Eggertsville, R. Boettger shows geranium stocks of a sturdiness that will bring the buyers beyond any question. C. F. Christensen shows cut flower spaces before taken up by mignonette and carnations, now occupied by bedding stock in fine bloom.

Recent business visitors included Arnold Ringier, of Chicago, and Charles S. Ford, Philadelphia.

VIDI.

WINONA, MINN.—Fire in the greenhouse plant of Fuhlbruegge Brothers, May 2, caused a loss estimated at between \$1,500 and \$1,800. Insurance was carried on the buildings, but not on the contents.

60,000 GRAFTED ROSES For Forcing

Extra fine healthy plants, free from mildew.

LIBERTY, Rose pots, \$15.00 per 100; 3 1/4 inch pots, \$18.00 per 100

BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN

Rose pots, \$10.00 per 100; \$95.00 per 1000
3 1/2 in. pots, \$15.00 per 100; \$145.00 per 1000

500,000 VERBENAS 60 Varieties

Perfectly healthy, in bud and bloom

2 1/2 in. pots, our selection, \$2.50 per 100; \$20.00 per 1000
2 1/2 in. pots, purchaser's selection, \$3.00 per 100; \$25.00 per 1000

COLEUS

VERSCHAFFELTII, GOLDEN BEDDER, FIREBRAND

Rooted Cuttings, 75c. per 100; \$6.00 per 1000

SEND FOR PRICE LIST

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

BABY RAMBLER

ON ITS OWN ROOTS

Strong, healthy, 2 1/2 in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000. Ready to ship at once. A few 3 inch plants, \$3.50 per doz.; \$25.00 per 100.

TEA ROSES Good assortment of varieties, \$3.50 per 100; \$30.00 per 1000. Strong, healthy plants.

Genista Fragrans 2 1/2 in., 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

CANNAS

We still have healthy, dormant roots, in Crimson, Yellow, Pink, Variegated Shades, Bronze Leaf Varieties. Also Orchid-flowering varieties. Send for our list and prices.

THE CONARD & JONES CO. WEST GROVE, PA.

Mention the Florists' Exchange when writing.

ROSES

TWO-YEAR-OLD, 4 IN. POTS, \$10.00 PER 100

Marechal Niel	Climbing Wootton	Helen Gould
Mrs. Robert Perry	Climbing Perle	Gruss an Teplitz
	Clothilde Soupert	

\$8.00 PER 100

President Cleveland	Seven Sisters	Yellow Cochet
Universal Favorite	Yellow Rambler	Etoile de Lyon
Mary Washington	Pink and White Rambler	Ivory
Jersey Beauty	W. A. Richardson	Pres. Carnot
Tennessee Belle	Henrietta	Mme. Welsh
Baltimore Belle	Lamarque	Mme. Hoste
Prairie Queen	Climbing Soupert	Mme. Plantier
Climbing White Pet	Pink Soupert	Marie Van Houtte
Climbing Malmaison	Triumph Pernet Pere	Brabant
Empress of China	Mrs. Degraw	Swartz
Crimson Rambler	Bouquet of Gold	Marie Guillot
Philadelphia Rambler	Agrippina	The Queen
Dorothy Perkins	Snowflake	V. Folkestone
Climbing Bridesmaid	Bride	Coquette de Lyon
Golden Rambler	Bridesmaid	Marens Dingee
Manda's Triumph	J. B. Varonne	Isabella Sprunt

2 in. pots, \$2 per 100; or an assortment of the following list, \$15 per 1000

Bride	Christine de Neve	White, Pink and Yellow
Bridesmaid	Manda's Triumph	Rambler
C. Soupert	Papa Gontier	Climbing Soupert
Yellow & Pink Soupert	Marquise de Vivens	Seven Sisters
Snowflake	Sombreuil	Climbing White and
Jersey Beauty	Catherine Mermet	Pink Swartz
Sylph	Universal Favorite	Brabant
Yellow Hermosa	Princess Marie Adelaide	Marie Guillot
Agrippina	Etoile d'Or	Golden Gate
Bouquet of Gold	Perle d'Or	Gruss an Teplitz
Mrs. Degraw	Geo. Pernet	Marie Van Houtte
Climbing Bridesmaid	Mignonette	Dorothy Perkins
F. Willard	Petite Leonie	Philadelphia Rambler
Triumph Pernet Pere	President Cleveland	

SOFT STUFF

SALVIAS, \$2.00 per 100; \$17.00 per 1000. Splendens, Silverspot, and St. Louis.

COBÆA SCANDENS, \$2.50 per 100. Pylogene Sauvis Picklevine, Manetti Bicolor, Dusty Miller, Mahernia Odorata.

HELIOTROPES, Albert Delnux, White Lady, Mrs. Davis Wood, Florence Nightingale.

FUCHSIAS, Mrs. E. G. Hill, Trailing Queen, Rosains Patri, Avalanche, Arnbella, Speciosa.

HARDY PHLOX, Liberty, Aurora, Borealls, Diplomate, Rossuth, Esclamonde, Cross of Honor, Amor, Austral.

FLOWERING BEGONIAS, Vernon, Thurstonii, Marguerite, Argentea Guttata, M. de Lesseps, Jessie, Sandersonii, Weltonensis, Hybrida, De Richardsonii, Pres. Carnot.

IVY GERANIUMS, Le Printemps, Incomparable, Jean d'Arc, La Fouchi.

VINCAS, Variegated, 2 in. pots, \$2.50 per 100; 3 in. pots, \$3.50 per 100.

CHRYSANTHEMUMS, In good assortment, \$2.50 per 100.

ORIENTAL POPPIES, In thumb pots, Stokesia Cyanea, \$2.00 per 100.

CALADIUM, 6x8, 30c. per doz.; 8x10, 60c. per doz.; 10x12, \$1.00 per doz.

PERIWINKLE, 3 colors, \$2.50 per 100.

Also Achillea, The Penri, English and German Ivy, Pilea, Ageratum, 3 colors, Abutilon, Lantana, two varietles, Sweet Alyssum, Asparagus Sprengeri, \$3.00 per 100.

SHASTA DAISIES, ASPARAGUS PLUMOSUS NANUS, BOSTON FERNS, ALTERNANTHERAS, two kinds, \$2.00 per 100.

ASPARAGUS PLUMOSUS, 4 inch pots, \$12.00 per 100.

MOON VINES, 4 in., \$10.00 per 100; White, 2 1/2 in. stock, \$3.00 per 100.

Cash Accompany Order

THE NATIONAL PLANT CO., DAYTON, OHIO

Mention the Florists' Exchange when writing.

BRIDE and BRIDESMAID FINE STOCK.

Propagated for grower's own use; Decided to carry over old stock. 2 1/2 in. pots, \$3.00 per 100.

Marie Louise and Princess of Wales Violets Rooted runners, from cold frames, \$10.00 per 1000.

GEORGE B. HART

21 Stone St. Rochester, N. Y.

Mention the Florists' Exchange when writing.

ROSES

From 2 1/2 inch pots

Especially fine lot of Hybrid Perpetuals, Climbers and Ramblers.

Send for price list. Use printed stationery. We send it only to the trade.

JACKSON & PERKINS CO. NEWARK, NEW YORK
Mention the Florists' Exchange when writing.

Grafted ROSE Plants

ON English stock, in 2 1/2 in. pots. Bride, Bridesmaid, Golden Gate, \$100.00 per 1000. Liberty, \$12.00 per 100; 3 in. pots, \$15.00 per 100.

OWN ROOT STOCK

Bride, Bridesmaid, Golden Gate, in 3 in. pots, \$35.00 per 1000. All in good condition. Write for sample.

Baby Ramblers, grafted, in 5 in. pots; in bud and bloom, \$5.00 per doz.; 2 1/2 in. stock, grafted, \$20.00 per 100.

CHRYSANTHEMUMS

Dr. Enguehard, Mrs. T. W. Pockett, Cheltoni, Mrs. C. J. Salter.

Transplanted cuttings from soil, \$5.00 per 100. Rooted cuttings from sand, 4.00 per 100.

Wm. Duckham, Alice Byron, Goldmine, Carrington, Yellow Jones, Yellow Eaton, A. J. Balfour, Merry Christmas, W. Bonnaillon.

Transplanted cuttings from soil, \$4.00 per 100. Rooted cuttings from sand, 3.00 per 100.

Mutual Friend, Nellie Pockett, G. S. Kalb, Bergman, Mrs. J. Jonee, Mrs. H. Robinson, Eaton, White Ivory, Polly Rose, McArthur, Whildin, Halliday, Bonnaillon, Marion Henderson, Appleton, Golden Wedding, W. H. Lincoln, Mrs. Chamberlain, Pink Ivory, J. K. Shaw, Maud Dean, President Smith, Helen Bloodgood, Glory of the Pacific, The Harriot, Intensity, Black Hawk.

Transplanted cuttings from soil, \$2.00 per 100. Rooted cuttings from sand, 1.50 per 100.

JAMES E. BEACH,

2019 Park Avenue, BRIDGEPORT, CONN.
Mention the Florists' Exchange when writing.

MME. CHATENAY IVORY GOLDEN GATE

3 inch pots, \$5.00 per 100.

S. J. REUTER, Westerly, R. I.

Mention the Florists' Exchange when writing.

ROSES

From 2 1/2 in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000.

Clothilde Soupert, best bedding and pot rose. Pink Maman Cochet, fine for Summer blooming. White Maman Cochet, grown now largely instead of Kaiserin.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio

Mention the Florists' Exchange when writing.

ROSES

BRIDE, BRIDESMAID, IVORY, GOLDEN GATE, MME. ABEL CHATENAY

\$3.00 per 100; \$25.00 per 1000

GEORGE REINBERG

51 WABASH AVE., CHICAGO, ILL.

Mention the Florists' Exchange when writing.

Grafted Roses

Bridesmaid, Bride, Bon Silene and Safrano. \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbold, \$2.50 per 100.

STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses
NEWTONVILLE MASS.

Mention the Florists' Exchange when writing.

Dwarf or "Baby" Crimson Rambler

(Mme. Norbert Levavasseur)

We have pleasure in offering a splendid stock of this charming and very useful rose from 2-inch pots, well rooted and ready for a shift into 3-inch pots. Many are of the opinion that this is going to be a very valuable pot plant for Christmas Sales and now is the time to get the stock of it for that purpose. Price, plants from 2-inch pots, \$2.00 per doz.; \$15.00 per 100; \$100.00 per 1000.

PETER HENDERSON & CO.

35 CORTLANDT ST., NEW YORK

Everblooming Roses

Surplus stock of standard varietles of Everblooming Bedding Roses, at prices that will close them out.

Strong, healthy stock from 2 1/2 in. pots, to include Bridesmaid, Bride, White Maman Cochet, Mary Washington, Queen's Scarlet, etc.

Strictly our choice of varieties in good assortment, \$2.00 per 100, \$17.00 per 1000

The Stopps & Harrison Co.

PAINESVILLE, OHIO

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsman and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 637.

News of the Week in Brief.

The June meeting of the New York Florists' Club will be a "Ladies' Night"; there will also be an exhibit of peonies.

The American Seed Trade Association will hold its next annual convention at Alexandria Bay (Thousand Islands), June 20-22.

Luther Burbank has planted some 10,000 seedling potatoes secured from various crosses, with a view to securing improved sorts.

The Washington brethren are making extensive preparations for the entertainment of visiting delegates to the S. A. F. O. H. convention in August next.

Our obituary column this week contains notices of the death of Alfred Whiting, West Hartford, Conn., and Benjamin Gingrich, president of the South Bend Floral Company, Indiana.

A severe hailstorm, which passed over Grand Rapids, Mich., last week, did much damage to greenhouse glass. Hail insurance is now being inquired into by several of the sufferers.

A suggestion is made this week by a correspondent that a fund be inaugurated by the American florists to honor, in some form, the memory of Paul Jones, who was the son of a Scotch gardener.

Some of the leading English growers are now naming new varieties of plants which are easily obtained from seed, such as anthuriums, gloxinias, clivias, etc., by colors, instead of giving them distinctive designations.

A new dracaena named Americana was shown at the Exhibition of the Horticultural Society of New York this week. It is a native of Honduras, and is said to be the only American representative of the genus. Its commercial value is promising.

The premium list of the American Peony Society, so far as it relates to commercial classes, appears in another column. The exhibition will be held in the Auditorium, Chicago, next month; J. B. Deamud, of that city, will be the manager.

PAMPHLETS RECEIVED.

WHITE HEATHER is the name given by Miss Ellen Velvin, 40 West Twentieth street, New York City, to a booklet designed for the use of florists and other merchants, to be sent to prospective brides and others. There is very little in the pamphlet about the white heather or any other plant, but the compiler has brought together quite a lot of interesting matter on things matrimonial, such as rings, bridal wreaths, significance of precious stones, wedding cake, wedding music, wedding anniversaries, etc.

The Eckford Testimonial.

Subscriptions acknowledged.

THIS WEEK'S SUPPLEMENT.

Quercus Conferta (Pannonica).

But few persons know the subject of our notes, the Hungarian oak, under the name of Quercus conferta. In all nursery catalogues it is listed as Q. Pannonica, but authorities give us conferta as its correct, specific name.

As it shows in the photograph, at first glance it reminds one of the white oak, and somewhat of the mossy cup oak; but it is very distinct from either when seen as it grows.

There are such a number and so many beautiful oaks in our own country that there seems no call for those of Europe, but the Hungarian is such a distinct and such a robust grower that there will be no regret when room is found for it. It comes to us from southeastern Europe, and unlike the Q. robur of England and the Q. cerris of southern Europe, it does not hold the green color of its foliage until the very last thing in Autumn—as it is well known the others do—but changes to a yellowish hue, as do our own species when the cool days of Autumn approach.

In the vicinity of Philadelphia the Hungarian oak grows splendidly; it is perfectly hardy, and the climate appears to be just to its liking. The appearance of the one illustrated is its natural one, attained without artificial aid of any sort, and it but characterizes all of the same kind that are growing in the neighborhood. There is a spreading, massive character of growth which is not common to all oaks, making it of broader outline than many of our own species are when of the height of the one pictured.

In former years it was even planted to a greater extent than it is to-day. This is not that it is less esteemed than it was, but because the public has been awakened to the fact that in our own large list of native sorts there are many oaks of great beauty, answering the same purpose almost that the Hungarian would. No one who sees our illustration will say but that the Hungarian oak should be in all collections.

So many planters fail to transplant oaks successfully that what has been said of doing the work properly heretofore will bear repeating. Oaks need careful digging, seeing that the roots are not exposed to dry air, the thorough settling of the soil about their roots and a very close pruning. When the trees are as large as the one illustrated, it will be wise not to attempt their transplantation. The risk of living would be very great. A young tree not over 6 to 8 feet in height would be far more satisfactory; but let the size be what it will, the one who prunes closely will be on the road to success.

JOSEPH MEEHAN.

Extraneous Competition.

At its meeting on Monday evening, May 9, the New York Florists' Club tackled the question of the operations of the plant and flower peddlers and other institutions as affecting the business of the wholesale commission dealer, the grower, and the retail store man. The latter, for some reason best known to himself, takes little or no interest in club affairs, so his side of the question has yet to be heard.

The "street man," as he is now called, the term "fakir" being in all but a few cases a misnomer when applied in this particular instance, was viewed as an indispensable factor, so far as the full disposal of plants and cut flowers is concerned. There was a charitable disposition shown toward him by each of the speakers; even the much abused department store being regarded as a not unmixed evil.

The statement was made, and it may surprise those who give such matters but little or no attention, that 95 per cent. of the plants sold during the market season in New York City are disposed of to the peddler; that each morning's sales in the market aggregate between \$7,000 and \$8,000. The remainder of the total output goes mostly to retail storemen during the month of May up to Memorial Day, and to cemetery florists short of supplies. The exigencies of the times demand that a cheaper grade of plants must be grown than formerly, and double the number raised, in order to make ends meet. The municipal order which forbids the placing of flower pots either on window sills or fire escapes, has curtailed, to a considerable extent, the demand for single pot plants, as such, although there is a greater call than ever before for subjects suitable for window boxes. The deduction is in view of the immense number sold, that greater attention is being given to flowering plants in the gardens and backyards in all parts of the city, and in the development of this commendable taste the street peddler, who penetrates into every nook and corner of the great metropolis, plays a most important part.

As was natural, especially in New York, the commission dealer looks upon the street merchant as a sine qua non. The essayist of the evening characterized him as "an advertising agent of the business" and "the Daniel Boone of the cut flower trade," terms not altogether inept in their application. Be that as it may, it would be impossible to move the immense quantities of cut-flower stock reaching this city without the aid of the street merchant. He provides an outlet for flowers that would not otherwise be available, and at the same time affords the agent an opportunity to make returns to his consignors that, with-

out the peddler, would not be forthcoming. And, notwithstanding his alleged harmful competition, the store man continues to flourish and get rich; while with his assistance the grower goes on adding to his range of glass. It is a noticeable fact, too, that those who once occupied street stands for the sale of flowers, or who plied their calling as itinerant vendors, as time goes on, become storekeepers themselves, thereby joining the ranks of the "legitimate."

It would, we presume, be difficult for the store florist generally to take the same charitable view of his extraneous competitor as do those from and through whom he obtains his supplies. High rentals, taxes, the maintenance of expensive equipages, liveried attendants, and other necessary and unnecessary appurtenances, are the portion of the store-men, from all of which the peddler is exempt beyond his license fee, and it would seem almost a straining of human nature for one so burdened to look with complacency on an imagined competitor relieved of these exactions. In these days, however, the hugaboo of the harmful influence of street competition looms up only before the narrow-minded members of the retail craft, and others imbued with their spirit. The broader-minded men—and these are in the majority, fortunately—see only in the department store, the auction room and the street merchant, helpful agencies along with themselves in the distribution of plants and flowers, all tending to develop, each in its own way, an interest in the craft and its products, and from which benefit to all engaged in the business is likely to proceed.



Benjamin Gingrich.

Benjamin Gingrich, of South Bend, Ind., died very suddenly Sunday evening, May 7, 1905, of dropsy, at the age of 62 years. His health had been failing for over three years, but his condition did not become acute until a week ago, since which time he has been in constant agony.

Mr. Gingrich was born April 2, 1843, near Hamburg, Ontario, and came to South Bend in October, 1865. In 1872 he embarked into the furniture business, which he conducted successfully until 1887, since which time he had been building contractor until December, 1901, when he organized the South Bend Floral Company and was its president at the time of his death.

He united with the German church of the Evangelical association shortly after his arrival in South Bend in 1865 and had been a devoted and constant member ever since. Besides his widow, he leaves two sons, Edward W. and Irving, also an adopted daughter, three brothers and two sisters.

Alfred Whiting.

Alfred Whiting, one of the best known florists in Connecticut, died Friday, May 5, at his home in West Hartford. The deceased was born in West Hartford in 1824, was educated and had lived there all his life. He started in the nursery trade in a small way over 50 years ago and gradually drifted into the florist business, and at the time of his death owned one of the largest establishments in Hartford County. Mr. Whiting was a member of the Hartford Florists' Club, having been elected an honorary member soon after the club was organized. He never took an active part, although he was much interested in the club's affairs. He was also a member of the Society of American Florists. On account of being troubled with rheumatism in late years he was unable to get around very much.

Mr. Whiting's wife died some years ago, and he is survived by one daughter. He had been sick about three months. Funeral services were held at his late home in West Hartford Sunday afternoon, being very largely attended. J. F. COOMBS.

How to Distinguish Steel from Iron Pipe.

The following bit of useful information is taken from the Valve World for April, the fourth issue of the new monthly publication of the Crane Company, Chicago, Ill.:

"Iron pipe is rough in appearance and the scale on it is heavy, whereas the scale on steel pipe is very light and has the appearance of small blisters or bubbles, underneath which the surface is smooth and somewhat white. Steel pipe seldom breaks when flattened, but if a fracture does occur it will be noticed that the grain is very fine. Iron pipe when subjected to this test breaks easily, and shows a coarse fracture, due to the long fiber of the material.

"The impression prevails with many that steel pipe is exceedingly hard, for which reason they imagine that it is threaded with difficulty and that the threads are easily broken off. This is erroneous, the truth being that steel pipe is soft and tough. The threads of this pipe do not break, but they tear off, to avoid which it is necessary that the cutting die shall be sharp so as to cut above the center. Dies suitable for steel pipe can also be used on iron pipe, but blunt dies that will work successfully on iron pipe will tear the threads on steel pipe, owing to the softness of the metal."

OUR READERS' VIEWS

A Paul Jones Fund Suggested.

Editor Florists' Exchange:

While the American florists seem to have quite a craze for subscribing toward testimonials for prominent members of the foreign trade, and as "charity begins at home," why not start a subscription for our great American patriot, Paul Jones, the funds to be applied toward the decoration of his grave, or tomb, as the case may be, in perpetuity? His body will soon be brought over from Paris, where he died on July 18, 1792; and thanks to our ambassador to France, it will soon find a resting place here. My reason for such a suggestion is that the records show that he was the son of a gardener, John Paul by name, born July 6, 1747, at Arbigland, Scotland. He spent most of his life in this country, and is better known as the "Father of the American Navy." All honor to his name, and to his father, who, while pursuing the peaceful pursuit of our noble craft, helped to bring into the world one of the most famous of men during the eighteenth century.

If this idea should ever take tangible form, I should be happy to contribute my mite, as the descendant of a line of gardeners and florists.

HARRY A. BUNYARD.

Impressions of Canadian Horticulture.

Editor Florists' Exchange:

I cannot help writing a few lines, in spite of the very busy season, to raise a protest against the most unfair, entirely unnecessary and uncalled for attack made by S. S. Bain, of Montreal, in your issue of last week, on the paper under the above heading (page 550), read by Edgar Elvin before the Montreal Gardeners and Florists' Club. I, in common with many others, put the paper down as very thoughtful interesting, and, well written; and for an Englishman four months out a very modest one—so very unlike the usual style of a Britisher "just out," who either blasts the blooming wooden country to infernal regions, or gets up on a pedestal and looks down with contempt on everything "colonial." I have no time to go into particulars, but would just say that there is a great deal in Mr. Elvin's paper that we might all take to heart and seriously think over, and I hope, Mr. Editor, that you will persuade him to give us some more of his ideas and impressions. We like "to see ourselves as others see us." Mr. Elvin has a great deal to learn about this country, and he appears to be quite conscious of his ignorance in this respect. We have a great deal to learn about our profession, and are glad to pick up any crumbs of knowledge from whatever source. I have not the pleasure of knowing Mr. Elvin—never heard of him before—but I hope he will be present at the C. H. A. convention in Montreal next August so that all the "boys" can make his acquaintances.

A. H. EWING.

Rosarians vs. Carnationists.

Editor Florists' Exchange:

Noticing the comments on the question, "Why are carnation growers more progressive than rose growers?" discussed at a meeting of the New York Florists' Club, the thought comes to me that in stating the matter as above, the question is begged. Now to start out by saying the carnationists are more progressive than the rose growers. I think judgment is already passed; so what is the use of argument? If because they make more fuss, it is true; then where the argument? As well say that progression is evidenced by noise and exhibitions. It is true that, years ago, "Uncle John" predicted the four-inch carnation; and as we sat in a tent on, I think, the corner of Fourteenth street and Broadway, trying to keep comfortable, with our feet on an oil stove, he failed to say that each Autumn a great big show of chrysanthemums would be held in almost every city of the country, thus showing that the chrysanthemum growers would be more progressive than the rose growers. The show we were then looking after did not create much furor, yet for the time it was a good one. I don't remember that there were any Russian sunflower-like blooms, gauged as to value by the size, but the whole, as a mass, was very attractive to the few who cared to pay the fifty cents to see it. Compared with the present Madison Square Garden shows, there is much progression. There, however, has been no improvement in the "smell." It required no very exhaustive effort to get an improvement in size and number of varieties.

Does not the same remark pertain to the carnation as to the chrysanthemum? It has become necessary to have committees from both societies to examine and pass upon the merits of the very numerous candidates for public favor. Of course, this only shows the progressiveness of the growers of each, and it also shows what infinite pains are required to produce these new candidates! The efforts are certainly commendable, but it seems to me the culturists are in a class by themselves—a class wherein no great care is required to produce a new and distinct flower—and between them the question of great progression can well come into play. But, as to rose growing, very different conditions arise. The hybridizer has, first, only a limited variety of color and class to work upon; no striped and speckled beauties are to be allowed. Self colors, or nearly so, must alone

be his aim. Variation in color must be confined within close lines, and, withal, a year to produce his seed, a year to germinate the same, three years to bloom and prove the value, to eliminate the poor, to improve the promising, and to throw away the majority; the care to keep the pedigree, to judge the effect of the cross before it is made; the trial in various soils, that one best adapted to the seedlings may be discovered. And after all this comes the submission to the judges. Where does the progressiveness come in? Can it be compared?

To deny or affirm is easy; but can you compare the grower of wheat, or corn, with the grower of orchids? To hustle and bustle to produce great numbers of tin cans may make more noise, but the result is what tells. The carnation of yesterday is lost to sight to-morrow.

Please, Mr. Carnationist, don't judge us by the number of our productions, but by the care, the work, and the beauty of our product. The rosarian works not alone for a bloom that can be produced under glass, but for a wider field, that his handiwork may charm not only the grower under glass, but the cultivator of a little garden, on the country side, the owner of a window ledge in the city.

Had the question been, Why is there more unanimity among carnation growers than among rose growers? I think it would have been more to the point; not that there is much jealousy or contention among rose growers, but more attention to the proper placing of their products before the public is needed. There certainly is far more push, more ambition, and less neglect on the part of carnationists, and more desire to do their business the highest amount of good than is shown by the rose men. If this be progression, then the former are more progressive.

Your comments, Mr. Editor, seem to me to be to the point, exactly.

BENJAMIN DORRANCE.

The Effects of Winter in North Carolina.

Editor Florists' Exchange:

As the sap is now in full swing we can see what damage has been done by the Winter. And, really, we have been surprised at the small amount. While every one seems to think that it was one of the coldest Winters ever known in the South, the damage to vegetation has been less than it is in some Winters normally mild. The difficulty in our ordinary Winters here is that we are apt at any time to have warm spells long enough to start the sap moving, and then a reverse to cold does damage. Last Winter was steadily cold, and plants kept dormant. Figs are less injured than I have ever known them, and now the young dormant figs are swelling off clear to the tips of the shoots. On one side of my house I have a little enclosure for shrubbery and flowers and to screen off the kitchen wing. This is surrounded with a wire netting fence, on which Clematis paniculata climbs. Inside, among other things, is one bush of Gardenia florida, one of Pittosporum tobium var., a clump of Hydrangea Hortensia and a lot of tea roses. This little enclosure is sheltered from the morning sun, being on the northwest corner. Now the singular thing about this plot is that the Clematis paniculata is nearly all dead to the ground, while the gardenia has not lost a leaf, and the pittosporum only shows a little singeing. The hydrangea is in full leaf now and not a bud was hurt. The tea roses lost their leaves from the cold, but that was an advantage. But that gardenia should escape unscathed when clematis is killed down is a little singular.

Most of the fruit trees have now passed blooming, and the peach trees are loaded with the young fruit. Plums likewise. I believe that the peach crop in this State will be a phenomenal one from present prospects. Now, April 5, the early tomato plants are going into the ground. Of course, there is still a little risk in this, but as we have plenty of reserve plants we always take the risk, for the earlier we can get tomato plants into the open ground and have them live, the earlier we get the ripe tomatoes. Then, as my work is largely experimental, it is always best to learn something even by a failure.

The canna beds had their Winter blanket of leaves removed last week, and now they are shooting up thickly. These beds were only planted last year, and we have not lifted them this Spring, since they are not yet too thick; but next Spring they will probably require lifting and dividing. We have lifted cannas here in the Fall, and then have lost a great many by drying during the Winter; now we never lift them till Spring, for they keep far better under a cover of leaves held down by the dead tops laid on them. The early start is an advantage. If we were planting dry roots now it would be May before they showed above ground; while the roots that have wintered outside have now, this early in April, made shoots six inches high. Erythrina Cristi-galli, twenty years old, passed the Winter safely as usual, with a mound of sawdust over the stump.

Since the above was written we have had a cold snap, and some frost, and the young figs were injured. Beans and Irish potato tops were singed, but the garden corn was not hurt. Fruit trees having their foliage largely developed were in good condition to escape injury, and I cannot find that any was done. At present writing, April 25, the roses are getting well into bloom. The Banksias are drooping in sprays of gold on many a porch. The tea roses are making their finest buds; and the vegetables seem to be recovering from the effects of the frost. The early planted gladioli are nearly a foot tall; and the cannas are likewise shooting up. The early figs were pretty well blasted by the cold snap, and we will have to depend

for fruit on the later ones, which are always smaller than the early ones. Just now the garden work is much impeded by the very dry weather, and we are hoping for rain. One of the prettiest things now is the blue phlox, of which there are numerous beds in the Raleigh lawns. This plant should be used more extensively than it is, for the mass of blue is very attractive at this season.

W. F. MASSEY.

Raleigh, N. C.

Reflections on Current Topics.

MR. EDITOR.—From your recent issue I gather that my personality is still an object of inquiry, and my poetry (?) a subject of criticism. Now, it seems strange to me that I, of all the scribes who hide their identity under initials, noms-de-plume, and other convenient forms of obscurity, should alone be singled out, and made the object of invidious inquisitiveness. For example, there is a paper, the conductor of which once raised a howl about "bemasked, skulking scribblers," that now delights in printing every week testimonials from parties who, my friend Birnie would say, are "afraid to sign their names;" and nobody evidently cares anything about their personality. That is only one example; I could cite others, but won't. Is it because the "writings" of the other offenders in this respect are unworthy of notice, and, per contra, my own effusions have so much of imagined value that I am thus honored? I have before quoted from experts on the value of noms-de-plume. Permit me to once more quote what Junius said, the most powerful "bemasked, skulking scribbler" of any age in the world's history: "A printed paper receives very little consideration from the most respectable signature." That's why the commission men ignore John Birnie's tirades on their defects. I suggest that there is no law that compels him to be "jarred" any longer than he himself is willing to stand the shock.

With the "poet laureate's" criticism it is different. His profane fault-finding with my best effort at rhyme but bears out the truth of Shenstone's remark: "Every good poet includes a critic; the reverse will not hold." And herein was I misguided. Truly we live and learn.

I observe from the outlined program of the S. A. F. O. H. convention, to be held in August next, that valuable time is again to be wasted on a "president's reception." Beyond the opportunity to display "six square feet of boiled shirt," and a claw-hammer coat, by those who possess such, I never saw any good or sufficient reason for this meaningless, useless function. Especially is it to be condemned, when there is so much to be done, and so little time in which to do it, that suggestions to refer part of the society's legitimate work to another tribunal—a national council of horticulture—have taken active shape. I am pleased, however, to notice that offer of Treasurer Beatty to give prizes for the best essays on the subject of "The Ideal Employer." But it is one thing to tell a fellow what he should be, and quite another thing for him to live up to what is expected of him by those who seem to know better than he himself just what he ought to be. It seems to me the discussion will be productive of as much good as if I were to point out the defects of John Birnie and other growers—after I had found out what these deficiencies were. They will still persist, no doubt. I hope Treasurer Beatty will not debar the regular scribblers, and poets, from the contemplated competition. I myself am just thirsting for a chance to hold up the mirror before the "ideal employer," and take my chances of getting a prize, and of the employer ever reflecting my ideal of himself.

Excluding the provision made for "the light-brained brigade," and the other matter mentioned, I am pleased with the program, and look forward to a grand gathering in August, no matter who is to be the next president.

On looking over the Special Spring Number of one of your contemporaries—the one that has as a frontispiece a picture that has been doing duty in several calendars this year, but is nevertheless charming, on account of the large display of unadorned nature presented—I notice that Scott has anticipated "The Ideal Employer" matter, to a great extent. I presume this was done as a sort of guide to those desiring to compete in the Beatty contest, though it may probably put the able author of it out of the running for the prize. One remark of Scott's strikes me as somewhat peculiar. He says: "With sincere joy and gratitude we can point to several young men now in business, or holding good positions, whom your humble servant first taught to set a plant level or handle the hoe." The inference is that the masterful initial instruction received by these young men was wholly, or partly, responsible for their after success—a case of "like master, like man." I believe that is mere egotism. The ability to succeed is within the individual, and is rarely, if ever, developed by external influences. The men who were similarly taught, but failed, of whom the gentleman says nothing, go to prove this. But we are all willing to assume association with the successful ones, taking credit, in a measure, for their successes; rarely, however, do we want to be identified with the failures. That a man, I mean the determined one, will develop his God-given talents, without extraneous assistance, is shown in Scott's own case. We have never read, or heard of any one but Scott himself being responsible for his becoming, as one correspondent recently remarked, a proficient toastmaster "in his own illimitable way," an author of repute, and an "endless chain" writer on miscellaneous and other kinds of hints. And there are others, including

JOB.

CHRYSANTHEMUMS

For Exhibition and Decoration.

(First prize essay, read by Wm. H. Griffiths before the Monmouth Co. Horticultural Society, Oceanic, N. J., May 5, 1905.)

There are a number of different types of this queen of Autumn flowers. They are as follows: Japanese, Japanese incurved, Japanese reflexed, incurved, hairy or plume, anemone, Japanese anemone, anemone pompon, pompon, and singles. For growing on the single stem for exhibition blooms, the first six types are exclusively used, although for bush plants and decorative purposes every gardener should grow a few plants of the smaller types.

Wintering the Stock.

One of the main points in chrysanthemum growing is good stock to propagate from. After the plants have bloomed, cut them down and place them in a cool, light house, where frost can be kept out. Keep them a little on the dry side, and also free from green fly. Varieties which are shy at making cuttings can be propagated in the Fall, growing them in a cool house through the Winter and then propagating the tops in the Spring. This also applies to any scarce varieties. By the middle of January shift any of the plants which are not making good cuttings into a house with a night temperature of 45 degrees. This will bring them along gently.

Propagation.

The time to propagate depends on the purpose for which the plants are needed—for specimen bush and trained plants, December and January; for exhibition blooms, February and early March; and for small bush and single stem plants in 6 and 7-inch pots, May and June (the latter can be propagated in a cold frame, in a shady corner).

The propagating bench should be in a house (north aspect preferred on account of less air being needed) where a night temperature of 50 degrees can be maintained, with a rise to 60 degrees with sun heat. Clean and whitewash the bench thoroughly and fill with fresh sand (not too gritty) to a depth of three inches. Give the sand a thorough watering the day before propagation commences; it will then be in good condition to firm.

Short-jointed, medium thick cuttings, about 2½ inches long, are best. Take those which are furthest away from the stem, as they will make cleaner growth. Make a clean cut below a joint, trim off the lower leaves, and cut the tips of the larger leaves. Dibble closely together in the sand, not too deep, firming each row with a brick. As each variety is put in, water gently to settle the sand around the cuttings. Dew the cuttings over twice a day till root action commences, never allowing them to flag, or be wet over night. A cutting once wilted gets hard, and takes longer to root. On the least sign of fungus, scrape it off, or it will quickly spread and destroy a large number of cuttings. In about two weeks' time most of the cuttings will be rooted.

First Shift.

When the roots are about half an inch long, lift carefully and place them in flats filled with light soil, about 2½ inches apart, firming moderately. Water just enough to settle the soil about the roots and place them in a cool house, with a night temperature of 50 degrees, rising to 60 degrees with sun heat.

Spray the plants over two or three times a day on bright days; shade when necessary, and give air whenever possible after two or three days. From my experience, this is a better method of starting the young plants than by potting into 2½-inch pots straight from the cutting bench. In the boxes the plants get a more even moisture and keep growing from the start. In small pots they need constant attention for water, and if not closely looked after they are liable to get a bad check. In about two weeks after boxing, the plants will be ready for a shift into 3-inch pots.

Soils.

This is a point that has to be closely looked after. Some soils, such as we have in this district, are very hungry, and need considerable manure; other soils do not need it so much. In my opinion it is best to give the plants sufficient food in the soil to insure a good, stocky growth right from the start.

The compost heap should be prepared in the Fall. A good, fibrous sod from an old pasture is best, cut about 3 inches thick. To every layer of sod add about one-quarter cow manure and a sprinkling of soot sufficient to blacken it over. Place in layers, bringing the stack to a point. This will keep the snow and rain from penetrating very much.

COMPOST FOR FIRST POTTING.—The soil for the first and second pottings should be screened. To every bushel of soil add a 5-inch potful each of Thompson's manure and bone meal, and a sprinkling of soot. Mix it thoroughly and let it stand for a few days until needed. This also will do for the 6-inch pots, providing the soil is coarser.

Compost for Final Potting or Boxing.

The soil for the final potting or boxing should be prepared a week before using. Chop the sod in pieces about the size of a baseball. When sufficient is chopped, level it a foot thick and three feet wide. To each nine feet of length add 20 pounds of Thompson's manure, 10 pounds of bone meal, and a good sprinkling of Scotch soot. For very heavy soils a barrow load of lime-rubble or coarse ashes could be added to keep the soil open. Mix thoroughly and place in a heap until wanted. The soil will then be thoroughly impregnated with the ammonia, etc., from the different ingredients. For weak-necked varieties, such as those of the Carnot family, add more bone meal and less of Thompson's manure.

Potting.

For growing exhibition blooms, pots are best for several reasons. Each plant has individual treatment, as regards watering and feeding, and is not so susceptible to damping as plants in boxes or benches. If growing too tall they can be easily moved, and can be kept back or brought forward at will when blooming. Eight-inch pots will do for the stronger growers, though some varieties do fine in 7-inch pots—Mrs. F. S. Vallis, Lord Salisbury, W. R. Church, H. J. Jones and Guy Hamilton, especially. From the time the cuttings are struck the plants must never be allowed to get root bound. As soon as the pots are well filled with roots repot from the flats into 3-inch, then into 4-inch, 5½-inch or 6, 7 and 8-inch pots in rotation. Never use dirty or wet pots. If you do, the roots will stick, and break when repotting.

The afternoon before potting commences, look over your plants and water any that are liable to get dry over night. They should then be in good condition for potting. For the 3-inch and 4-inch pots a label should be used to ram the soil, finishing with the thumbs. For the two later pottings, rammers must be employed. The degree of firm potting which a chrysanthemum needs depends on the soil. Light soils can be rammed firm; heavy clay soils will need but little. Bush plants should be potted medium firm, a quick growth being needed.

In the first place, see that the drainage is put in properly. Place one large crock over the hole, hollow side down (for the 3 and 4-inch pots this will

save a lot of watering. But as soon as this is done the ashes should be cleaned out and the plants stood in their proper places.

Set the varieties in blocks, grading from north to south, according to height. Always give plenty of room; and if the benches are wide, leave a walk down the center. It will save a lot of trouble if the plants are staked now. For the taller varieties four or five foot stakes are best, tied securely to two wires running lengthwise. With two wires the stakes can be raised to any height and the plants kept upright. If the house is long, run wires across for braces. If this is not done the plants will fall about when in bloom. For the dwarf varieties one wire will be sufficient.

WATERING AND SYRINGING.—To have well-ripened wood, without which first-class blooms cannot be had, watering must be done very carefully. Look over the plants three or four times a day, in preference to giving them all a drop whether they need it or not, affording sufficient to soak through. After potting, especially, is this true. If, overwatered at this stage, the foliage will turn yellow, the soil being rich and firm holding the water. For a guide tap the pot with the knuckles. If it sounds hollow it is safe to water. When the plants are in bloom, watering must be done carefully, and as early in the day as possible, so that the plants will have a chance to dry off before night. By doing this there is less evaporation through the night, and consequently less danger of the flowers damping. In the earlier stages the plants should be sprayed two or three times daily in bright weather. When in their permanent quarters, one good syringing daily on bright days will be sufficient to keep down red spider and the plants in good shape, having the foliage dry over night. Of course, there are exceptions to this. Take, for instance, a hot, windy day, after a spell of dull weather, the plants will flag badly. A light spray overhead will do them good. Don't be tempted to water in this case unless it is really needed. Stop syringing when the flowers show color.

(To be continued.)

Chrysanthemum Dorothy Faust.

The illustration herewith shows blooms of chrysanthemum Dorothy Faust, which originated with H. I. Faust, Merion, Pa. Several years ago he noticed a plant growing among a batch of Major Bonnaffon, planted on a bench, that was entirely distinct; he

kept this plant and found it to be a first-class white and a grand variety for late flowering. The past four years he has grown it extensively and has found it the best variety for cutting during the latter part of November and December.

Mr. Faust tried by various means to ascertain from well-known growers if this was a new or old variety; and if old, what it was. But no one knew it last season; it was sent to the various committees of the Chrysanthemum Society under the name of Dorothy Faust. It was examined and scored by several committees, but Eugene Dailedouze, of the New York Committee, stated it was Mrs. Robert McArthur. Since that time growers in Philadelphia, who years ago had Mrs. McArthur, claim that it was not as good as Dorothy Faust as a keeper or shipper. Fred Ehret, who handled almost all the flowers grown by H. I. Faust, is very enthusiastic about it, saying it gave excellent satisfaction to all customers to whom he shipped flowers, and retailers in this city stated that they had used the same flowers in several decorations, it being such a good keeper.

As Dorothy Faust proved such a good thing, Wm. P. Craig made arrangements with H. I. Faust to distribute the stock this Spring and is meeting with great success.

Henry Eichholz, of Waynesboro, Pa., has been interesting himself in the discussion, and has offered to supply plants of Mrs. Robert McArthur to be grown for comparison with those of Dorothy Faust. In a letter to Secretary Lonsdale of the Philadelphia Florists' Club, he says: "I have grown Mrs. McArthur for five years, and shipped the flowers to Pittsburgh markets in quantity each year, they having always realized the best prices. I never had a complaint of the variety not being a good shipper. Since the C. S. A. and Nathan Smith & Son are trying to straighten out the varieties, it seems too bad that Mr. Craig should create confusion.

"As far as re-introducing Mrs. Robert McArthur (Dorothy Faust) is concerned, I can only compliment Mr. Craig, as at the low price it is offered, it will always prove a better and safer investment than Wm. Duckham, or any other fancy transatlantic variety of recent date; in fact, I can hardly understand how a grower could be without it. But please do call a variety by its real name."

DAVID RUST.

In E. Y. Teas' gladiolus advertisement, page 604, of last week's issue, the word "Childsii" should not have appeared. See corrected advertisement in this issue.



CHRYSANTHEMUM DOROTHY FAUST

be enough). Over this place a few small crocks to a depth of from ¾ to 1¼ inches, according to size of pot. Put some of the rough sod and a little of the fine stuff over the crocks and ram firmly. Place the plant in the center of the pot, filling in and ramming gradually and firmly, holding the ball down with the left hand, being careful not to injure the roots. When firmed evenly all-around spread a little on top and finish off with the thick end of the rammer leaving enough room for watering and top dressing at the final potting.

General Information and Routine Work.

THE HOUSE.—For chrysanthemums a high span, running north and south, with plenty of head room at the sides, is best, fitted with top and bottom ventilators and sufficient piping to keep a good circulation in cold and damp weather.

If benches are in the house it is handier for working; but we have had as fine blooms with as little damping, in a house that has been used for pot fruit trees in the early Summer, standing the pots on boards.

ARRANGING AND STAKING.—Until the final potting, the plants should be stood on ashes; this will

CLUB AND SOCIETY DOINGS

NEW YORK FLORISTS' CLUB.—The meeting on Monday evening last, May 8, was devoted to an exhibition of Spring plants, such as are sold in the market at Canal and West streets; a discussion of the benefit, or otherwise, of the cut flower and plant peddlers; a talk on the most valuable plant introduced within the memory of any club member, and other interesting topics. John Birnie was in charge of the plant display and succeeded in bringing together a most excellent and comprehensive representation of market plants.

Over thirty members were in attendance, President Traendly occupying the chair. J. Austin Shaw reported for the outing committee that over \$100 had been subscribed as prizes for athletic events, and that a generous response as regards advertising in the program had been received. The affair promises to be a most successful one. Mr. Butterfield stated that he had been in communication with the park authorities of Brooklyn, relative to the order debaring children under 14 years of age from entering Prospect Park greenhouses, unless accompanied by parents or guardians. The attention of the Park Commissioner had been called to the injustice of this ruling, and that official's reply was now awaited. Girard Dreyer was elected to membership. The amendments to the by-laws, by which the secretary shall send out all due bills and collect money for same, subsequently transmitting the cash to the treasurer; also increasing the secretary's salary to \$250 per annum, were passed unanimously. A form of certificate to be awarded by the club for meritorious exhibits was ordered drawn up.

The following report of the committee of awards was then presented by the chairman, Patrick O'Mara, who gave an interesting reminiscent talk on the subject of growing and selling market plants in New York, a branch of the business, he said, the extent of which was not as fully known or appreciated by the trade as it should be.

H. Steinhoff, West Hoboken, N. J., H. P. roses, award of merit for culture. Chas. Hunt, Port Richmond, S. I., Pelargonium Victor, assorted geraniums, daisies, award of merit for culture. Herman Mende, Seacaus, N. J., Mme. Salleroi, geraniums, English ivy, ivy geraniums, geranium Beaute de Poitevine, award of merit for culture. E. C. Pesenecker, Jersey City, N. J., pansies, candytuft, variegated funkia, award of merit for culture. Smith & Lappe, Phlox subulata and candytuft, award of merit for culture. Peter Yost, West Hoboken, N. J., Sempervivum Lindenii variegata, award of merit for culture. Toni Cassia, Brooklyn, Armeria maritima, honorable mention. H. Bauman, West Hoboken, N. J., mignonette, mixed geraniums, award of merit for culture. Hentman & Wagenfahr, Winfield Junction, L. I., cinerarias, mixed polyanthus, award of merit for culture. John Reickert, Union Hill, N. J., Crimson Rambler roses, award of merit for culture. John Tschupp, West Hoboken, N. J., fuchsia Little Beauty, award of merit for culture. James H. Henderson, Jersey City, hydrangeas, award of merit for culture. S. C. Schroeter, Bayonne, N. J., coleus, ageratum, salvia Fire Ball, award of merit for culture. John Birnie, West Hoboken, N. J., geranium Mme. Landry, verbenas, one example box of pansies, award of merit for culture. George Fiest, West Hoboken, N. J., daisies, myosotis, honorable mention. Aug. Kresinger, Jersey City, nasturtium, honorable mention. Augustus Spies, New Springville, S. I., pansies, award of merit for culture. Chas. Heinz, West Hoboken, N. J., Myrtus communis, honorable mention. Wm. Stadtmiller, Jersey City, sempervivum, lantanas, musk, award of merit for culture. Fred Englen, West Hoboken, N. J., heliotrope, pelargonium Victor, award of merit for culture. George Darsley, Jersey City, geraniums, award of merit for culture. John Harrison, Jersey City, lemon verbenas, award of merit for culture. Leach Bros., Jersey City, double petunias, heliotrope, anthemis, award of merit for culture. F. Weinberg, Woodside, L. I., collection of sempervivums, sedums, celiverias, Carissa foetida, phyllocactus, award of merit for culture. Fred Dressel, Weehawken, N. J., young kentias. Guttman & Weber, New York, carnation Victory.

John Birnie had brought with him a box of pansies, which he designated a "horrible example" of the results obtained from poor quality seed sold by some advertisers in the trade papers, characterizing in no mistaken language the detriment to business arising from such practices. Mr. O'Mara believed such a result might come from the specialist having run out of his own strain, securing seed from other sources to fill orders. In this the specialist, he thought, made a mistake. No reputable seed house in the country would handle seed that would produce the miserable pansy plants shown by Mr. Birnie. A suggestion by the president that the result might be charged to the grower was resented by the complainant, who stated his 25 years' experience in successful pansy culture was sufficient guarantee that he was no novice in the art.

Mr. Weinberg gave an instructive talk on the plants shown by him, directing special attention to Carissa foetida for commercial purposes.

A recess was taken, during which the members enjoyed Chairman Nugent's hospitality. On reconvening the various questions propounded at the last meeting were discussed. Mr. O'Mara replied to the query, "What are the essential qualifications of a judge of cut flowers and plants?" He said, among other things, a judge must be thoroughly acquainted with the subjects shown, must know them at their best, and the characteristics of each. He must be able to discrimi-

nate, from actual knowledge, what constitutes the best. He must be a man of decision, able to make up his mind quickly, and when once his opinion was formed to stick to it. Above all, he should keep sober until after his work was finished. (Laughter.) The speaker condemned the practice common at some exhibitions of permitting late staging of displays, compelling the judges to work while surrounded by the visitors to the show, and often throwing upon the judges the onus of a committee of observation in locating the positions of the various classes and the plants included in these. Horticultural societies should bear in mind that the judges came to shows prepared to go to work and everything should be in readiness for them. Many a so-called error on the part of judges occurred, not because the men officiating had not the necessary knowledge or experience to decide fairly and properly, but simply because they are rushed to death and had to do their work under the most unfavorable conditions possible. An exchange of opinion on the part of judges was impossible when they were surrounded by individuals straining their ears to ascertain what was being said.

James Scott thought judges should not be too thick-skinned, so as to meet the complaints of the chronic kickers. Fleetness of foot, to take a judge away from an exhibition hall as quickly as possible after his work was done, was a very necessary qualification.

Alfred H. Langjahr replied, as a commission dealer, to the question, "Are Street Merchants and Peddlers Beneficial or Detrimental to the Florists' Business?"

sale man is glad to trade with him. He is the advertising agent of our business. You will find him on Broadway; he wends his way through the Fifth Avenue crowd, or among the slums, where a flower is a ray of sunshine to those who see nothing but fire-escapes and humanity; and when all the shops are closed on a Sunday or a holiday he is silently plodding along and disposing of his flowers. "I wish to emphasize that here in New York, where the grower is continually adding to his plant and new men are going into our business every season, what would we do without the vender? He is a hard-working, industrious person. If he would show the same ability employed as a salesman for John Wanamaker, he would be well paid. In closing I wish to say that he is the Daniel Boone of the cut flower business."

George Darsley, Jersey City, said, so far as the market plantsmen in New York were concerned, their business for a great many years had been, and is, entirely with the peddlers. Some forty years ago stands for the sale of plants were located on the sidewalks and in the city's different markets. Then good prices were obtained, because better stock was grown. Now small plants that will sell, retail, at 10c. must be supplied; and it is necessary to raise 50,000 instead of 25,000, as formerly, to make ends meet. Ninety-five per cent. of the plants grown for market here are disposed of to the peddler, and between \$7,000 and \$8,000 change hands every morning in the market. Without the outlet thus provided a great many growers could not exist.

John Donaldson, secretary of the Cut Flower Exchange, believed the street man was necessary also in the cut flower trade. He had observed that, during



A PORTO RICAN CHURCH DECORATION, EASTER, 1905

By Wm. C. Smith, San Juan.

He divided the street merchants into two classes—the "fakir," who employs unfair means in selling his flowers, and the "vender," who is beneficial to the business. He pointed out some of the fakir's methods, and their harmful influence both on the wholesale and retail trade. Continuing he said, in part:

"Another bad feature in our business is, if prices have been steady for some time, and the wholesaler cleans out to the vender a lot of special violets, Bridesmaid or American Beauty roses, and the latter is seen by the buyers hawking the flowers around, you may have to cut some slips the next day. I do honestly believe that flowers are cheapened when the same stocks are continually put out for sale on the street.

"In cities of the third class a 'vender' may do a great deal of harm; and if the store men will get together and use up all the spare flowers, to keep them off the street, I think it would pay them. Cities of the second class will have to submit to some street vending; and in cities like New York it will be impossible to do without the vender. In Boston a few years ago the wholesaler would not sell anything to the street man until 6 o'clock at night. In Philadelphia the street man is known as the 'fakir.' He is not allowed in the store proper until the dealer is ready to wait on him, and then is taken from a cage in the rear of the store, one at a time, to the ice-box to make his purchase and then retired. This prohibits him from interfering with the regular customers. In Chicago, where they have so much shipping trade, I do not think much stock should find its way out on the street.

"Here in New York we have practically no shipping trade and have to depend on our local people to buy everything that is shipped to us. We receive flowers from nearly every State in the Union and sometimes from Canada. What would we do without the street vender? He pays cash, buys in large quantities, and takes his flowers with him. He will purchase 50,000 violets or 5,000 carnations and all the red roses you are willing to sell him. Of course, there are other vendors that will only purchase 1,000 violets; and the flowers are on sale for him here from 6 a. m. until 7 at night. Every whole-

severe weather, when the peddler could not ply his calling, prices on cut flower stock generally went lower. W. E. Marshall did not think the peddler hurt the retail plantsman. He had experienced a very large call for plants for window boxes this season. The same view was held by Mr. Wheeler, also as regards the competition of the department stores, where, in some cases, stock was improperly handled, and therefore unsatisfactory, sending the purchaser to the regular florist for future supplies.

In the discussion on the "most valuable plant introduced within the memory of any member of the club," Mr. O'Mara championed Ampelopsis Veitchii. It had adapted itself to the American climate. The English ivy did not survive our Winters; the Boston ivy did. The latter colors up beautifully in the Fall. It is used extensively on churches and other buildings, to every curve of which it readily conforms, and brings into the city a touch of nature that nothing else does. It is easy of propagation either by seed or by cuttings, coming practically true by the former method, although a few variations from the type may occur, and its culture is of the easiest.

Mr. Darsley favored the double geranium, among the first introductions of which, and still among the best, was Gloire de Nancy. Charles Lenker espoused the cause of the Crimson Rambler rose; James T. Scott that of American Beauty, and Mr. O'Mara had a second choice in the Mme. Crozy canna.

The president appointed as a transportation committee in connection with the trip to the S. A. F. O. H. convention at Washington in August next, Messrs. Sheridan and Nugent. Secretary Young announced that the June meeting would be "Ladies' Night;" there will also be an exhibit of peonies then. The meeting adjourned at 10.30 p.m.

THE HORTICULTURAL SOCIETY OF NEW YORK held its annual meeting and exhibition at the Botanical Garden, Museum Building, Bronx Park, on Wednesday and Thursday, May 10 and 11. The old board of officers was returned. George C. Nash and C. Dieterich were elected members of the Council versus Peter Duff and P. J. Berckmans. The secretary's report showed a total membership of 189 and a balance of \$710.00 in the treasury. It was announced that the society would issue a bulletin at least eight times during the year, in which would be contained the proceedings of the society, the bulletin to be distributed to the members. Dr. N. L. Britton called the attention of those present to a new dracena named americana, with green foliage, a native of Honduras, Central America, said to be the only American representative of the genus. It is a rapid grower, and Dr. Britton thought it would find its way into commerce as an ornamental plant. The specimen exhibited had been grown from seed in the greenhouses of the garden. He also showed a Mexican opuntia, the flower of which had narrow petals. This plant had been collected on the battlefield of Buena Vista, Mexico. Blooms of the Australian fadeless flower, received from Luther Burbank, were also on exhibition. S. W. Fletcher, of Cornell University, delivered a lecture on "Summer in the Fruit Garden," illustrated with stereopticon views. Mr. Fletcher emphasized the necessity of tillage, spraying, etc.

The exhibits this year were not so numerous as in previous years; the larger part of the exhibition

American Peony Society.

The nomenclature committee of this society makes, April 1, the following report of progress. The committee was appointed by the society to investigate the nomenclature, botanical status and cultural requirements of varieties, particularly with respect to fertilizer experiments designed to influence the size and shipping qualities of the flowers.

Your committee is pleased to state that an excellent beginning in the important study outlined above has been made. Soon after the announcement was issued, a brisk correspondence sprang up with peony growers regarding the scope and purpose of this comprehensive study. This resulted in securing before cold weather arrived a fine collection of plants—probably one of the largest ever gotten together, as will be seen from the list below. The work has been materially aided by European peony growers, who have become interested in the enterprise mainly through the good offices of President C. W. Ward, who has labored both indefatigably and effectively in the cause.

SITE AND SOIL.—The field chosen is a short distance from the site of the new State College of Agriculture. It is about 500 feet above Lake Cayuga and slopes gently to the south, being protected by an elevated bluff and wooded land to the north. The soil is a light clay loam as nearly uniform as it was possible to secure.

PLANTING.—As each consignment arrived it was unpacked, the roots of the varieties described, classified

AMERICAN PEONIES RECEIVED IN 1904.

Cottage Gardens, Queens, N. Y.....	235	
Peterson Nursery, Chicago, Ill.....	120	
John Charlton & Sons, Rochester, N. Y.	5	no label
Ellwanger & Barry, Rochester, N. Y.	97	6 numbered
Andorra Nurseries, Philadelphia, Pa.	58	
	57	4 numbered
		38 rec'd in 1903
W. & T. Smith Co., Geneva, N. Y.	56	
J. P. Rosenfield, West Point, Neb.	41	
		4 numbered
Storrs & Harrison, Palmsville, O.	40	
Jackson & Perkins Co., Newark, N. Y.	37	
		3 numbered
A. H. Fewkes, Newton Highlands, Mass.	36	
Signed on behalf of this committee,		
JOHN CRAIG, Chairman.		

The premium list for the forthcoming show, to be held next month, is now in the printer's hands, and will be distributed shortly. Subjoined is a list of the commercial classes; there are also classes for amateurs and private growers. The exhibition will be held in the Auditorium Chicago, and J. B. Deamund, 51-53 Wabash avenue, will be the manager.

Herbaceous Peonies.

COMMERCIAL CLASSES.—DOUBLE.

Class 1.—Largest and best collection of varieties, one flower of each. First prize, \$15; second, \$10; third, \$5.

Class 2.—Collection of best twelve and most distinct varieties, six flowers each. First prize, \$10; second, \$5.

Class 3.—Best collection of varieties in various shades of rose pink, not less than three nor more than six flowers each. First prize, \$10; second, \$5.

Class 4.—Best collection of varieties salmon and flesh colored, not less than three nor more than six flowers each. First prize, \$10; second, \$5.

Class 5.—Best collection of white varieties, not less than three nor more than six flowers each. First prize, \$10; second, \$5.

Class 6.—Best collection of varieties, cream white and light yellow, not less than three nor more than six flowers each. First prize, \$10; second, \$5.

Class 7.—Best collection of crimson varieties, without stamens, not less than three nor more than six flowers each. First prize, \$10; second, \$5.

Class 8.—Best collection of crimson varieties with stamens, not less than three nor more than six flowers each. First prize, \$10; second, \$5.

Class 9.—Best collection of tricolor varieties, including flowers with guard petals, collarette and center petals of different colors, not less than three nor more than six flowers each. First prize, \$10; second, \$5.

Class 10.—Best twelve specimen varieties, twelve blooms of each variety. First prize, Doubleday silver cup; second, \$10.

Class 11.—Best 100 blooms Festiva Maxima. First prize, \$10; second, \$5.

Class 12.—Best 100 blooms pink, any shade. First prize, \$10; second, \$5.

Class 13.—Best 100 blooms crimson. First prize, \$10; second, \$5.

COMMERCIAL CLASSES.—SINGLE.

Class 14.—Best collection of Japanese varieties, including so-called Imperial varieties. First prize, \$10; second, \$5.

Class 15.—Best collection of single varieties. First prize, \$10; second, \$5.

AMONG THE GROWERS.

Mr. Heacock has just now a very choice lot of palms at his establishment. He is strong on kentias in all commercial sizes. K. Belmoreana is grown most extensively, and of these he has a grand lot; even in 3-inch pots they show good sturdy habit and healthy growth. The 4 and 5-inch plants are very fine and these sizes he has by thousands. When the 6-inch stage is reached, many of the plants are made up, four to a pot—a tall one in center with three around. These are to be seen in large numbers, in sizes of 7, 8, 9 and 10-inch pots. A fine lot of about 400 of the last named size has lately been potted up for the Summer sales. K. Forsteriana, when the plants reach the 6-inch size, is used entirely for made-up plants, as they are not demanded in quantity as large single plants. There is an exceedingly fine lot. One entire house of K. Belmoreana, single plants in 8 and 9-inch pots, are very good value, being hard and in grand condition. Another house contains a nice lot of plants, all made up in 10-inch pots and 12-inch tubs. The former are now fully established and will soon be moved into tubs as decorative plants. This entire house is worth going some distance to see, as the plants are all perfect and in good condition for immediate use.

Areca lutescens is represented by two benches of plants in 6 and 7-inch pots. These are not held to grow on, as the demand for extra large plants of this palm has fallen off. A few tatanias and phoenix are also grown; and one can always find a batch of cocos on this place. Intending buyers will do well to look this stock over. Wyncote is at Jenkintown station, on the Philadelphia and Reading Railroad, 10 miles out from Philadelphia, with splendid train service, the greenhouses being only five minutes' walk from the station.

DAVID RUST.

Species and Varieties

Their Origin by Mutation

By HUGO de VRIES

Professor of Botany in the University of Amsterdam

Edited by Daniel Tremblay Mac-

Dougal, Assistant Director of the

New York Botanical Garden

865 pages, price \$5.00. Circular,

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PARTIAL VIEW OF EASTER SHOW HOUSE OF J. B. BRAIDWOOD, COLORADO SPRINGS, COL.

tables being taken up with collections of wild flowers and flowering shrubs. Those in the trade who exhibited were F. R. Pierson Co. Tarrytown, N. Y., who had a collection of crotons, dracenas, gardenias, and other decorative plants; also cut flowers from hardy shrubs, and a collection of bizarre and other tulips. Lager & Hurrell, Summit, N. J., showed a fine collection of orchids, both as cut specimens and flowering plants, as also did Julius Roehrs, of Rutherford, N. J. Collections of cacti and other succulent plants were staged by Frank Weinberg, Woodside, L. I., Gertrude Padrock and Mrs. Theresa Glibes, also of Woodside, L. I. The New York Botanical Garden exhibited some decorative plants; also a collection of flowering shrubs. Wild flowers and flowering shrubs were also shown by Julia J. Noll, of Plainfield, N. J., the Bedford Agassiz Association, of Bedford, N. Y., P. Nelson, of Bedford Park, N. Y., Mrs. Pauline Kaufmann, New York City, W. H. S. Wood, Greenwich, Conn. (gardener, F. M. Ryan), Louis Dupuy, Whitestone, N. Y., had four plants of *Crassula hybrida coccinea*. There was also a collection of wild violets from various amateurs throughout the county. Siebrecht & Son, New Rochelle, N. Y., also staged a collection of cut hardy flowers.

NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY.—This society held its regular monthly meeting on the evening of May 3, at the Glen Cove greenhouses. It having now been decided to meet in the evenings, the attendance was fairly large. A paper on hardy flowering shrubs and tree-like shrubs was read by John F. Johnston. Discussion followed.

J. F. J.

alphabetically, and planted as promptly as possible. The first alphabetical scheme was soon filled up, and another one started. Had it been possible to secure the plants all at one time, a well-systematized plan might have been carried out. However, the present arrangement will simply give the peony student a little more work. The plants were set, with crowns 2 inches below the surface, in rows 4 feet apart and 3 feet apart in the row.

LABELING AND MULCHING.—As the roots were set, a planting record was made and a temporary wooden label assigned to each plant. Before freezing, the rows were covered with a mulch of mucky soil or stable manure. When the supply of the latter gave out, the muck was used. So far as one can tell by early Spring examination, the roots have wintered well.

Intending contributors should forward consignments promptly so that the plants set this Spring may be placed on terms as even as possible with those set last Fall.

The committee is most grateful for the hearty co-operation of the friends of the peony both at home and abroad, and looks forward with the keenest interest to the flowering season of 1906, although a considerable amount of bloom will undoubtedly appear this Spring.

DONORS.—The following is a list of those who have contributed thus far:

EUROPEAN PEONIES RECEIVED IN 1904.

	No. of varieties contributed
A. Dessert, Chenonceaux, France.....	200
DeGraff Bros., Leyden, Holland.....	124
Croux Bros., Chateaux (Seine), France.	76
Received April, 1905.....	94
L. Paillet, Chateaux (Seine), France....	75 vars. grafted
L. van Leeuwen & Son, Sassenheim, Holland.....	43
Peter Barr, 12 and 13 King street, Covent Garden, London, E.....	21

Review of the Market

NEW YORK.—Flowers are plentiful and business is dull. The month of May is never considered a particularly good one for the cut flower trade...

Lily of the valley has been both plentiful and cheap; fortunately, the supply diminished toward the latter part of the week...

CHICAGO.—Business during the past week has not been what could be termed brisk, owing, in great measure, to the strike which still continues...

American Beauty are not coming in so freely as at last report, nor do they sell as rapidly, few going at the top market prices...

Prices of carnations have fallen, and the stock is not moving as briskly as it did the week previous. Lilies have been a glut on the market...

BOSTON.—As is generally expected, there is not much doing at this season of the year in the cut flower line. The only parties who seem to be handling flowers are the street men...

ST. LOUIS.—The cut flower trade here is much demoralized owing to the great amount of outdoor stock in bloom. Some of the florists are doing work for weddings and funerals...

Carnations, too, are as abundant as roses; \$1 per 100 buys good carnations, \$2 for extra fancy; common stock goes at \$5 per 1,000...

Plantmen are very busy just now with all kinds of bedding plants. These are selling well at the stores and market stands.

INDIANAPOLIS.—The bedding season is at its height; an unusual number of window boxes, vases, and flower beds are being filled and made this season...

ican Beauty, of inferior quality, are being received; shorts bring \$5 per 100; 16 to 20-inch stems, \$15, and select 30 to 36-inch stems, \$25 per 100.

Fancy carnations are scarce at \$3 per 100, but medium grades, at \$2 to \$2.50, are plentiful. Field-grown lily of the valley is of unusual quality...

Southern peonies are beginning to arrive. Prices are about the same as in other years—\$4 to \$10 per 100, according to quality and condition.

All indications point to a heavy Decoration Day trade. The G. A. R. societies are urging the strict observance of that day and lay particular stress upon the liberal use of flowers.

BUFFALO, N. Y.—Cut flower trade in general is quite moderate at present, with an ample supply for all demands. Some good violets are still received.

PITTSBURG.—There has been an abundance of stock of cut flowers of all sorts the past week and prices were irregular. American Beauty went at from 2c. up; the street stands had their share of them, but they sold slowly.

E. C. Ludwig had several good decorations the past week—one for the Eagles, and the other for the banquet given to the visiting members of the Rivers and Harbors Committee of Congress.

The Pittsburg Florists' Exchange is still working at its new rooms; when complete, everything will be up-to-date.

The Botanical Society of Western Pennsylvania will hold its next meeting May 18. A talk on "The Tropics of Field Days" and an exhibit of wild flowers will be given.

E. C. REINEMAN.

WASHINGTON, D. C.—Business has improved considerably this week, yet the supply of certain lines of stock was very much in excess of the demand.

CINCINNATI, O.—It is impossible to name prices on cut flowers; the bottom has dropped clean out of the market, and the retail trade is buying only from hand to mouth.

There will be no meeting of the Florists' Society until June 10, when nomination of officers will be made.

E. G. GILLET.

NEWPORT, R. I.—Business in all lines continues very brisk, indeed; especially with the seedsmen, who have most certainly had a splendid trade this season.

SYRACUSE, N. Y.—Trade since Easter has been very good here, decorations, funeral work, etc., working up the surplus stock to advantage.

New York.

The Week's News.

The retail stores are bright and gay just now with the many Spring flowers available. Lilac particularly is being used most lavishly.

At the meeting of the stockholders of the Cut Flower Exchange, held last Saturday, Wm. Amos was re-elected president; the old board of directors was also returned with one exception.

At 457 Fifth avenue, Brooklyn, a new retail flower store has been opened by Hermens & Reger; the first mentioned member of the firm formerly conducted a store in Bridge street, Brooklyn.

Chas. H. Atkins has purchased five acres of land on Patterson avenue, East Rutherford, N. J.

Peter Bisset, secretary of the Washington (D. C.) Florists' Club, was a recent visitor. Mr. Bisset says that extensive preparations are making by the local club for the entertainment of the delegates to the S. A. E. O. H. convention in August next.

George Coleas, who has for some months operated a retail store on Flatbush avenue, near St. Mark's, Brooklyn, has gone out of business.

Harry van Koolbergen, representing Ottolander & Hoofman, Boskoop, Holland, sailed for home, May 10, per steamer Ryndam.

At the request of Park Commissioner Kennedy of Brooklyn, the city aldermen have appropriated \$7,750 to purchase for the city the collection of orchids, palms, ferns and geraniums, belonging to the late Wm. Brown, of Flatbush, N. Y.

Will cost no more with a JUST WONT ground

who knows that all tobacco powder is the same cigar and tobacco store trash he gets at his cigar store or from his seedsmen and JUST WONT ask for our booklet, that is full of the sayings of his fellows, that read: The H. A. S. Co.—I have used the BLACK STUFF FINE TOBACCO POWDER and also the FUMIGATING KIND, and they are all right; do not leave a bad odor; any bug that can stand a siege of the FUMIGATING KIND ought to be sent to O. D. MILLS, Stratford, Conn. He JUST WONT believe that 95 per cent. of all the growers that send for our free five-pound trial sample bags of THE FUMIGATING KIND (for fumigating) and THE BLACK STUFF FINE (for sprinkling), have purchased not once, but again and again, after the trial. WHY BE A JUST WONT when you can have these free five-pound trial sample bags; yes, two of them if one won't do. All we ask is for you to pay the express charge on them. Ask now. Don't be a "JUST WONT". THE H. A. STOOHOFF CO., Tobacco Powder Hobbyists, 116 WEST STREET, NEW YORK, N. Y.

The Retail Trade

An Effective Advertising Design.

The accompanying special Easter design shows how a progressive retail florist may attract attention to his goods at this or any other set day by having a heading made appropriate to the occasion. In this, the Easter bonnet and the lily blend in calling attention to the



anniversary. It is simple and forcible, and the name in block letters further impresses the reader as to who will supply the flowers. It was devised and used by Hales, of Orange, N. J., the past Easter for circulars and in newspaper advertising. But similar cuts may be prepared at small expense for other occasions as well; and any idea may be carried out under the pencil of a skillful designer. D.

Our London Letter.

BY A. HEMSLEY.

THE ROYAL HORTICULTURAL SOCIETY.—The fortnightly meetings continue to grow in importance. At the last one there was a larger crowd of visitors than I have ever previously seen; and they certainly had something to look at, for the hall was filled with interesting exhibits. Miniature rock gardens and alpine plants have been a feature for some time, but the exhibit made by Messrs. Cutbush & Sons at the last meeting certainly eclipsed any previous attempt. Some tons of tufa and spar were used to form a rock garden, which was arranged in an irregular mound, with a background of bamboos, clematis in flower on tall tree stems, Crimson Rambler roses twining up tall poles, with standard lilacs, crimson thorns, pyrus, etc., conifers, Azalea mollis, lilliums and peonies. The foreground was filled with the rarest al-pines. *Cypripedium spectabile* filled a large niche. Another corner was filled with *Primula rosea*, a large patch arranged together being more effective than when single plants are dotted about. Other subjects were treated in a similar manner, the whole forming one of the most unique exhibits we have seen. And the gold medal awarded was fully deserved. Of other interesting exhibits, A. F. Dutton's carnations are especially worthy of note. Cut with long stems, and well displayed in tall trumpet vases, they attracted all visitors. The varieties, chiefly of American origin, included Harlowarden, for which an award of merit was given; Enchantress, in superb condition; Flamingo, Lillian Pond, and others were equally good. Messrs. H. Low & Co. also showed carnations well, including some good things of their own raising.

In my last letter I referred to rose Warrior as coming from G. Paul & Sons; this was an error. This rose came from Wm. Paul & Son, of Waltham Cross, who again showed it in good form, with other good sorts. George Mount also put up roses in grand form, the Frau Karl Druschki being exceptionally fine. If the petals of this rose were of a little better substance it would beat all other white roses for market.

J. R. Box, one of our well-known begonia growers, put up a fine group of *Begonia Gloire de Sceaux*. This is undoubtedly worthy of attention. As shown, it is one of the best pot plants I have seen. In Messrs. J. Veitch & Son's exhibit the blue hydrangeas were a feature. I had previously seen these at their nursery, where, in a larger group, they were most effective. I may here mention that it is by artificial means that the deep blue color is obtained, and the variety most amenable to the treatment which produces the blue is *Hortensia rosea*, a variety more nearly resembling Thos. Hogg, the white one. It is the va-

riety which Messrs. Truffaut & Sons, of Versailles, flower so well for the Christmas and New Year's trade in France. The blue tint is produced chiefly by the use of ammoniated alum added to the water. The use of alum is an old idea, but I have not previously seen such good results as Messrs. Veitch & Sons obtained last year, and again this season.

ANTHURIUM SCHERZIANUM.—These are now a great feature in Messrs. Veitch & Sons' nursery. Many very fine seedling varieties are seen, and it is interesting to note that the firm is not giving them distinctive names, but simply labeling them according to shades of color, etc. They vary considerably, some having long, narrow spathes, while others are broad or nearly round. I measured one which was fully eight inches deep and four and one-half inches wide; others were broader, but not so deep. The colors also varied considerably, some being of a peculiarly vivid hue. *Clivias* are also well done, and there are some remarkably fine seedling varieties; but, like the anthuriums, they were not given distinctive names. In *gloxinias* and other things, which are so easily raised from seeds, distinctive names are now being dropped, and we might very well go further. It seems quite absurd to name tuberous begonias. There may be a few distinct types, yet seedlings are now so good, both in singles and doubles, that color distinctions are all that is necessary. Even in carnations, I think each raiser might keep to colors only, calling them Smith's white, Jones' scarlet, or Johnson's pink, etc. Even if improvements are made, they could be recorded from season to season, and it would save putting good names into oblivion; for it must be disappointing when a good thing has been named after some distinguished person, to find that, the next season, it has been superseded by a variety named after someone in humble circumstances.

THE DAFFODILS are now in full array. The finest things I have yet seen are King's Norton, an immense golden yellow trumpet variety, which was shown by Messrs. Pope & Sons, Birmingham, and gained an award of merit. King Alfred is a grand yellow, which will take a first place as a market variety. Duke of Bedford is a fine bicolor. We are getting many improvements in the Ajax type, also the Barrii type, those with the deep orange-red cups being the most remarkable. The whites, both in the deep trumpets and the short cup varieties, are much improved; but it will take some time to prove these before they can be recommended for market. There can be no doubt whatever about the first three I have named.

EASTER TRADE.—Sensational prices are things of the past. There is, however, a little advance on ordinary values, and a fairly brisk trade. Yet supplies are abundant, and even in lilliums and callas, which are wanted in such quantities, there is no great advance. I find buyers who ordered pot plants of *Lilium Harrisii* a week ago got them on good terms. Roses and carnations are well supplied, both in cut blooms and pot plants. Crimson Rambler are good this season, and as we have additional growers, they are lower in price. Dorothy Perkins is also good. *Alexandra* is grown, and flowers well, but there are none that sell better than the crimson. In zonal pelargoniums, Mrs. Lawrence, the new salmon variety, which was first seen last season, is already on the market, and very good it is. It will certainly become a favorite, being so remarkably free flowering, and of a nice shade of color.

In the best London floral establishments quite a feature is now made of baskets of various designs, some filled with cut blooms and some with pot plants. Others have plants and cut flowers combined, and most effective are some of the arrangements. In funeral and memorial designs, color is more used than ever before, especially mauve and purple.

Hail Storm at Grand Rapids, Mich.

On May 2 we were visited by one of the worst hail storms ever known here. A gale was blowing, and in eight minutes one inch of rain had fallen; the thermometer fell 13 degrees. The storm lasted about ten minutes and did thousands of dollars worth of damage to church windows, skylights and window-panes, even ruing gravel roofs in its track, and stripping trees and plants of their foliage. The wire glass on the roof of the Union Depot was badly broken. The hailstorm came down with such force as to perforate the tops of milk wagons and other covered vehicles. Greenhouses suffered the heaviest. At Greenville, the Greenville Floral Co. lost about \$150 worth of glass; L. C. Lincoln lost the same amount at Granville. N. B. Stover got off with 400 panes broken. Eli Cross bore the brunt of the storm, it striking his houses from the south. The hail smashed almost every pane on that side and some on the north; loss, \$5,000. Within a short time Mr. Cross had 25 men at work repairing the damage, and they are still at it. At St. Peter Kunst's, Crescent avenue and Union street, the hail demolished his plant most completely, breaking about 90 per cent. of all the glass. The damage to the crop was but slight. He says he won't rebuild yet the boys aver they will tear down the entire plant and rebuild along modern lines. John Ball Park sustained about \$50 worth of damage, and several lettuce houses on Leonard street and north of Cross's were damaged \$300 to \$400 each. Crabb & Hunter had a narrow escape; they were on the edge of the hail belt, but lost a few panes only. The hailstones ranged all the way from 1/2 inch to 2 1/2 inches in diameter, and from 2 to 8 inches in circumference. There is talk now of hail insurance being a good thing, and it is expected several will take out policies in the near future. G. F. C.

WINDOW GLASS.—The American Window Glass Company, which produces machine-made glass, announced last week a reduction in price to jobbers on the first three brackets of single strength to 90 and 40 per cent. discount from manufacturers' list. This is equivalent to a net price of \$1.14 per box for first bracket B, \$1.20 per box for second bracket and \$1.26 per box for third bracket. It is understood that at this discount it would be impossible for manufacturers of hand-made glass to sell their product except at a loss, under the present wage scale. It is reported that some manufacturers of hand-made glass are offering the first three brackets, single, at from 90 and 30 and 5 per cent. discount to 90 and 35 and 5 per cent. discount, and that for large sizes 90 and 20 per cent. discount is being made.—Metal Worker.

WASHINGTON (D. C.) FLORISTS' CLUB.—The meeting of the Florists' Club held last Tuesday night was well attended. Secretary Bisset, who at the last meeting announced his intention of resigning, consented, at the urgent request of the club, to continue his useful work as secretary. The business transacted was principally relative to convention matters. The chairmen of the different committees reported progress, and as every individual member seems to be lending a hand, the affair promises to be quite a success. At the next meeting it is expected to have everything (or nearly so) in definite shape for public announcement. M. C.



WINDOW DISPLAY BY JOHN COOMBS, HARTFORD, CONN., EASTER, 1905

Cleveland.

News Items.

While the weather so far this month has been reasonably good, we are now getting some very heavy rains and windstorms, and several green-houses in the east suburbs have suffered considerably from hailstorms. To what extent is the damage and whether covered by insurance has not yet been reported.

Great preparations for Decoration Day are going apace. There is a revival of the old discussion of setting a later date for Memorial Day on account of the late season making a scarcity of flowers.

Henry Merkel, under the firm name of Merkel's, will open a very pretty flower store at the corner of Euclid avenue and Olive street on May 15. The color scheme will be white and gold. H. Merkel was formerly with J. M. Gasser Co. and Smith & Fetters.

O. G.

Indianapolis.

News of the Week.

Wm. Dow has bought the establishment of Thomas Hepler, on Massachusetts avenue.

The Crown Hill Cemetery florists, A. Pahnud, E. A. Nelson, and Martin Braendlein, say the demand for the filling of vases, etc., is heavier than in former years and that a successful season in that line is almost assured.

John Bertermann, now at Weimar, Germany, was delegated as special representative of the Indianapolis German Societies to place a wreath upon the grave of Schiller in commemoration of his hundredth anniversary.

Superintendent of Parks C. J. Power has his large force of men engaged in planting out. The city is better prepared than usual for the work and few if any plants will be furnished from others than the city's green-houses at Garfield Park.

I. B.

Chrysanthemums

New and standard varieties. Fine plants now ready, 2 1/2 inch pots. Write for list and prices.

H. WEBER & SONS Oakland, Md.

Mention the Florists' Exchange when writing.

READY FOR RETAILING

ROSES, from 2 1/4, 3 and 4 in. pots, coming in bloom, in good mixture, \$4.00, \$6.00, \$10.00 per 100. To name your selections, 1/4 more. All ever-bloomers. Hybrids, fine, large plants, 4 1/2 in. pots, good sorts, in mixture, \$12.00 per 100. Hardy Climbing Roses, 3 to 4 feet size, \$15.00 per 100. Also beautiful Moss Roses, in bud, \$20.00 per 100.

General variety of Bedding Plants, 2 1/2 in., \$2.50; 3 in., \$4.00 per 100.

CHRYSANTHEMUMS, rooted cuttings of Bergmann and Prince of Wales, two best early and late white, for bunches or funeral work, grow 2 and 3 fine medium flowers to a stem, \$1.50 per 100; \$12.00 per 1000.

PHLOX, hardy white, pink and red, rooted cuttings; SWEET WILLIAM, WALLFLOWERS, COREOPSIS, RUD-BECKIA, HELIANTHUS, CAMPANULA, etc., fine stocky plants from frames, \$2.00 per 100. Four varieties of PALMS, to grow on from 12 to 18 in. high, \$5.00 to \$20.00 per 100. FERNS, Adiantum Cuneatum, ready for 4 in. pots, \$4.00 per 100.

25 of all stock offered until sold at 100 rates; 250 at 1000 rates—but Cash with order at these low prices.

N. STUDER ANACOSTIA, D. C.

Mention the Florists' Exchange when writing.

LOOKING FOR A BUYER

of the very finest kinds, including Cheltoni, Guy Hamilton, W. Duckham, Donald McLeod, and many others.

Why not write me? I can save you money on Chrysanthemums. CHARLES H. TOTTY, Madison, N. J.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings from cool grown stock of the following varieties

American Beauty, globular, dark pink; Wm. Duckham, Dr. Enguehard, \$4.00 per 100. Merry Monarch, white and yellow; Willowbrook, Polly Rose, Pacific, R. Hailday, Ivory, Robinson, Nellie Pockett, Bonnaffon, Lincoln, Maud Dean, Merry Christmas, \$1.50 per 100; \$12.50 per 1000. Cash with order, please.

G. F. NEIPP, Jamaica P. O. Woodhaven Station Aqueduct, L. I., N. Y.

Mention the Florists' Exchange when writing.

50,000 Chrysanthemums

Dr. Enguehard, 2 1/4 in. pots, \$3.50 per 100 Rooted cuttings, \$2.50 per 100. Amorita, \$3.50 per 100. Rooted cuttings, \$2.50 per 100.

Golden Wedding, Ivory, Appleton, Jerome Jones, Pacific, Polly Rose, Willow Brook, Robinson, Maud Dean, Bonnaffon, white and yellow, 2 1/4 in. pots, \$2.50 per 100; \$20.00 per 1000. Rooted cuttings, \$12.00 per 1000.

50,000 ROSES

Kaiserin, La France, Perle, Hermosa, Clothilde Soupert, Cochet (pink and white), Ivory, 3 in. pots, \$4.50 per 100; \$40.00 per 1000.

5,000 MOON VINES

3-in. pots, \$6.00 per 100; 2 1/4 in., \$3.50 per 100.

10,000 COLEUS

\$2.50 per 100; \$20.00 per 1000

SIX BEST BEDDING VARIETIES

J. D. BRENNEMAN Box 24 HARRISBURG, PA.

Mention the Florists' Exchange when writing.

1905 Florists' Directory

THE AMERICAN FLORIST

Directory for 1905 is now ready for distribution. It contains 452 pages, including complete lists of the Florists, Seedsmen and Nurserymen of the United States and Canada, arranged both by states and towns and all names alphabetically. Also lists of Foreign Merchants, Firms which issue catalogues, Horticultural Supply Concerns, Parks, Cemeteries, Landscape Architects, Experiment Station Horticulturists, Botanical Gardens and other invaluable trade information.

Price, \$2.00 Postpaid

Address

A. T. De La Mare Ptg. & Pub. Co. Limited

2 to 8 Duane Street, New York

Mention the Florists' Exchange when writing.

JUST ABOUT NOW.

For \$5.00 I will send you 100 assorted CHRYSANTHEMUMS

DOROTHY FAUST CHRYSANTHEMUM

This is Offered to the Trade as a Sure MONEY MAKER. How long have we waited for a Really First-Class Late Commercial White?

Mr. H. I. Faust has grown this variety in quantity, several houses each year, for several years, and has with difficulty been induced to part with it. The E. G. Hill Co. had this variety on trial last year, and the following description was written by a member of the firm who is considered by many to be one of the ablest Chrysanthemum experts in this country: "DOROTHY FAUST—Pure snow white, very large, incurved but not globular; petals broad and beautifully formed, somewhat loose in arrangement but of splendid texture; the stem and foliage are as fine as those of Eaton; an easy doer, can be planted very close; blooming at Thanksgiving and later make this a valuable and delightful variety, as it is one of the most beautiful in finish and effect."

Philadelphia, Pa., February 13, 1905.

Mr. W. P. CRAIG, 1305 Filbert St., Phila.

Dear Sir:—We are very glad to say that we think Dorothy Faust Chrysanthemum a very good variety indeed. We shipped it with elegant success, and the flowers arrived at destination in the best of shape. It is a good keeper; has good stiff stem, and good form, being pure white. We feel it is a very valuable addition to the Chrysanthemum market as a commercial variety.

Very truly yours, Samuel S. PENNOCK,

The above letter from "The Wholesale Florist of Philadelphia," who has handled this variety for several years, needs no further comment, nor do the following: Pittsburg, Pa., February 23, 1905.

Mr. W. P. CRAIG, 1305 Filbert St., Phila., Pa.

Dear Sir:—It is with pleasure that we state that

the Dorothy Faust Chrysanthemum, in our estimation, is one of the best commercial varieties and will no doubt prove a profitable one to the grower, coming at a season when it will command a good price.

Very truly yours, RANDOLPH & MCLEMENTS,

Philadelphia, Pa., February 16, 1905.

Mr. WILLIAM P. CRAIG, 1305 Filbert St.

Dear Sir:—We have handled considerable of the Dorothy Faust Chrysanthemum, and believe it to be the best late white. The color is so pure, and the straight tough pliable stem does not weaken, as is the case with so many late ones. We have kept flowers two weeks which still looked presentable. We are glad that Mr. Faust consented to send it out this season and believe it will become the standard late white.

Yours truly, JOS. KIET & SON.

Dorothy Faust is a Good Grower, Good Keeper and a Good Shipper

Every retail florist in Philadelphia will tell you it is the best late white. The price is so low for such a sterling novelty that all Chrysanthemum Growers can invest with profit. Special prices on large quantities. All orders will be filled in strict rotation.

Table with 2 columns: Sample dozen plants delivered free, 25 Plants, 50 Plants, 100 Plants. Prices: \$4.00, 6.00, 10.00, 15.00.

W. P. CRAIG, Plants, Bulbs, Seeds, Philadelphia, 1305 FILBERT ST.

Mention the Florists' Exchange when writing.

Chrysanthemum Stock

Table with 2 columns: Pink, Per 100; White, Per 100. Lists various varieties like Wm. Duckham, A. J. Balfour, Dr. Enguehard, etc. with prices.

CARNATIONS

ROOTED CUTTINGS Last Offer

Table with 2 columns: Variety, Price. Includes 2500 Enchantress (\$30.00), 2500 Lavson (\$15.00), 1000 Prosperity (\$15.00), 500 Bradt (\$15.00).

GRAFTED BRIDE AND BRIDESMAID ROSES

\$10.00 per 100; \$100.00 per 1000.

EDW. J. TAYLOR, SOUTHPORT, CT.

Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS OUR SPECIALTY

Both NOVELTIES and STANDARD VARIETIES

We have an immense stock now ready for planting. Send us a list of your wants for prices.

NATHAN SMITH & SON, - Adrian, Mich. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Table with 2 columns: Variety, Price. Includes Strong Plants, Vinca Var., Violet, Princess Wales, Carnation, R. C. with prices.

Write for List at once.

SMITH & GANNETT, Geneva, N. Y. Mention the Florists' Exchange when writing.

20,000 Chrysanthemums

All standard varieties, including Wm. Duckham and Dr. Enguehard, at \$20.00 per 1000. Samples free.

GERANIUM NOVELTIES of recent years, in bud and bloom, 4 inch pots, \$8.00 per 100.

HENRY EICHHOLZ, WAYNESBORO, PA. Mention the Florists' Exchange when writing.

Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from same, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass. Mention the Florists' Exchange when writing.

AFTER EASTER BARGAINS

After Easter, all florists need to replenish their stock. We here offer some exceptionally fine bargains. If you cannot take care of your needs now, you had better place your order and have us hold same for you until you can use the plants. In this way you are sure of having your stock secured when you need it, and avoid the usual disappointment of "stock sold" when you order same.

	Size pots.	Per doz.	Per 100
Asparagus Plumosus Nanus, \$20.00 per 1000	2 in. 3 in.	\$0 50 60	\$2 25 4 50
Asparagus Sprengeri, \$15.00 per 1000	2 in.	40	1 75
Abutilons, 1 best sorts, all colors	2 in.	40	2 50
Ageratums, best sorts, blue and white	2 in.	30	2 00
Ampelopsis Veitchii	2 in.	50	3 00
Anemone, Queen Charlotte and Whirlwind	2 in.	50	3 00
Aloysia Citriflora or Lemon Verbena, \$20.00 per 1000	2 in.	35	2 50
Alyssum, Giant flowered	2 in.	30	2 00
Alternantheras, 2 sorts, red and yellow, \$18.00 per 1000	2 in.	30	2 00
Acalypha Marginata, \$20.00 per 1000	2 in.	40	2 50
Achyranthes, 4 vars.	2 in.	2 00	
Altheas or Rose of Sharon, fine plants, 5 colors	2 in.	50	3 50
Anthericum	2 1/2 in.		4 00
Begonias, 10 best flowering sorts, \$20.00 per 1000	2 in.	40	2 50
Clematis Paniculata	2 in.	50	3 00
The large flowering, strong 2 year, post-grown plants, best sorts, including Jackmanni—30c. each.		3 00	20 00
Cannas—All our Cannas are plants from pots, ready to grow right off, and are much superior to dormant eyes; all the choice varieties		50	3 00
Cestrum, or Night Blooming Jasmine	2 in.	40	2 50
Cyperus Alternifolius, Umbrella Plant	2 in.	40	2 50
Caryopteris, or Blue Spiraea, hardy	2 in.	50	2 50
Cyclamen Persicum Giganteum, \$25 per 1000	2 in.	50	3 00

	Size pots.	Per doz.	Per 100
Coleus in 20 best bedding sorts, \$15.00 per 1000	2 in.	30	2 00
Coleus, Christmas Gem, new	2 in.	50	3 00
Crotons, 20 leading sorts	2 in.	50	3 00
Daisies, Marguerites both yellow and white, the very best varieties, \$17.50 per 1000		40	2 00
Daisy, Shasta		50	3 00
Dicentra Spectabilis, Bleeding Heart		75	5 00
Dracaena Indivisa, \$20.00 per 1000	2 in.	2 50	
Strong	3 in.	5 00	
Ficus Elastica, Rubber plants, 12 to 15 in.		3 00	
Fern. Nephrolepis Scottii	2 1/2 in.	2 00	12 50
Fern. Nephrolepis Exaltata, the old-fashioned Sword-fern; valuable for vases, etc.	2 1/4 in.		3 00
Fern. Pteris Tremula, shaking fern	2 in.		4 00
Fern. Neph. Bostonensis	2 in.	50	3 00
Feverfew, double white, \$17.50 per 1000	2 in.	30	2 00
Fuchsias. We have a fine stock of all the best white and double purple and all shades of single		40	2 50
Geraniums. Ivy-leaved in six best sorts		50	3 00
Scented in 6 best sorts		50	2 50
Mountain of Snow	2 in.	50	3 00
Gladioli in best mixtures, \$9.00 per 1000		40	1 00
Good and Reese International Mixture, \$15.00 per 1000		50	2 00
Helianthus, hardy dwarf Sunflower in two sorts, Multiflorus double and Rigidus, single	2 in.	30	2 00
Honeysuckle, Hall's Japan Chinese Evergreen, Scarlet Trumpet and Golden-leaved, \$22.50 per 1000	2 in.	40	2 50

	Size pots.	Per doz.	Per 100
Hibiscus, 10 leading sorts, double and single, \$25.00 per 1000	2 in.	40	3 00
Jasmine, Grand Duke	2 in.	50	4 00
Grandiflora, Poetica and Revolutum	2 in.	40	2 50
Maid of Orleans	2 in.	50	3 00
Justicia, Plum Plant	2 in.	50	3 00
Lemon Ponderosa, the greatest of all plants for florists; blooms and bears enormous size fruit; easily handled, \$25.00 per 1000	2 in.	50	3 00
15 inches high	3 in.	1 00	8 00
20 inches high	4 in.	1 50	12 00
36 inches high	6 in.	5 00	
Lantana, Weeping; fine for baskets and vases, \$20.00 per 1000	2 in.	30	2 50
Matrimony Vine, hardy	2 in.	40	2 50
Orange Otahelita	2 in.		3 00
Oleander, double pink	2 in.		3 00
Poinsettia, \$25.00 per 1000	2 in.		3 00
	3 in.		5 00
Pittisporum Tobira, fine plants	2 1/4 in.	75	6 00
Primula Forbesii, Baby Primrose	2 in.	50	2 50
Rudbeckia, or Golden Glow, \$20.00 per 1000	2 in.	40	2 50
Russellias, 3 sorts	2 in.	40	2 50
Rhynchospermum Jasminoides, \$25.00 per 1000	2 in.	40	3 00
Salvias, 6 best sorts, \$20.00 per 1000	2 in.	40	2 50
Solanum Azureum, or Blue Solanum	2 in.	50	3 00
Swainsona, 2 sorts, white and pink	2 in.	50	3 00
Sansevera Zeylanica, \$20.00 per 1000	2 in.	40	2 50
Smilax, \$18.00 per 1000	2 in.	30	2 00
Stapelia, Star Flower	2 in.	40	2 50
Vinca Major var., \$20.00 per 1000	2 in.	40	2 50
	4 in.	75	6 00

CLEARANCE SALE OF ROSES

Last call to get healthy, clean Rose stock. We would advise intending purchasers to order now. Don't delay unless you expect to be disappointed by the usual "Stock Sold, unable to supply." We are headquarters for Roses. The following choice varieties from 2 1/4 inch pots at 50 cts. per dozen; \$2.50 per 100.

Bridesmaid	Gardenia	Mme. Lambard	Pink Rambler
Ballimore Belle	Gruss an Teplitz	Mme. Cecil Brunner	Prairie Queen
Catherine Merrmet	Golden Gate	Mme. Welch	Queen Scarlet
Champion of the World	Helen Gould	Mme. F. Kruger	Souv. de Wootton
Clothilde Soupert	Helen Gambler	Mignonette	Souv. du Pres. Carnot
Cornelia Cook	Hermosa	Mary Washington	Sylph
Climbing Meteor	James Sprunt	Marechal Niel	South Orange Perfection
Climbing Wootton	Jersey Beauty	Manda's Triumph	Universal Favorite
Climbing Bridesmaid	Kaiserin A. Victoria	Microphylla Alba	The Bride
Climbing Marie Guillot	Lady Battensea	Marie Guillot	The Queen
Duchesse de Brabant	La France	Maman Cochet	Viscountess Folkestone
Duchesse of Albany	Le Pactole	Marie Van Houtte	White Maman Cochet
Evergreen Gem	Mme. Abel Chatenay	Meteor	White Rambler
Etoile de Lyon	Mme. C. Kuster	Mrs. Robt. Garrett	Wichuriana
Fortune's Double Yellow	Mme. de Watteville	Paquerette	Yellow Rambler
Golden Chain	Mme. Jules Grolez	Perle D'Or	

The Following Choice Varieties from 2 1/4 in. pots, at 50c. per doz.; \$3.00 per 100.	
Ball of Snow	John Hopper
Crimson Rambler	La Reine
Capt. Christy	Mme. Caroline Testout
Coquette des Alpes	Mme. Alfred de Rougemont
Countess of Rosebery	Mme. Masson
Dinsmore	Mme. Planter
Duke of Edinburgh	Magna Charta
Earl of Dufferin	Philadelphia Rambler
Gen. Jacqueminot	Paul Neyron
Giant of Battles	Roger Lamberlin
Gainsborough	Yellow Cochet

Baby Rambler, fine 2 1/4 in. pots, \$3.00 per dozen; \$20.00 per 100.

The Largest ROSE GROWERS in the World
Write for New Wholesale Price List today. Address

THE GOOD & REESE CO., Springfield, Ohio

Mention the Florists' Exchange when writing.

CARNATIONS

FROM SOIL AND POTS, STRONG

	100	1000
White Lawson	\$8.00	\$70.00
Lady Bountiful	7.00	60.00
Nelson Fisher	7.00	
Flamingo	7.00	
Enchantress	4.00	
Boston Market	3.50	
General Maceo	3.00	25.00
Moroing Glory	3.00	
Mrs. G. M. Bradt	3.50	
Mrs. E. H. H. Bradt	2.50	
Queen Louise	2.50	
White Cloud	2.50	20.00
Adoles	6.00	
Alpine Glow	2.50	20.00
Chicago	3.50	
Gold Nugget	3.50	
Golden Beauty	4.00	
Mrs. Theo. Roosevelt	3.00	25.00
Mrs. F. Jost	2.50	
White Bradt	5.00	
Mrs. T. W. Lawson	3.00	
Lieutenant Peary	12.00	

OWN ROOT FINE STOCK

Bride, Bridesmaid, Golden Gate, 2 1/4 in. pots, \$4.00 per 100; \$38.00 per 1000. 3 in. pots, \$7.00 per 100; \$60.00 per 1000. Perle, Sunset, Sunrise, 2 1/4 inch, \$5.00; 3 inch, \$8.00 per 100.

GRAFTED FINE STOCK

Bride, Bridesmaid, Golden Gate, Carnot, Kaiserin, Testout, La France, Wootton, Watteville, Albany, from 2 1/4 inch pots, \$12.00 per 100.

WOOD BROS., Fishkill, New York

GERANIUMS

Fine strong plants from 4 in. pots, in bud and bloom, S. A. NUTT, Double GEN. GRANT, VIAUD, \$5.00 per 100. Rooted Cuttings of ALICE BYRON, MRS. COOMBS HALLIDAY and JEROME JONES, \$1.00 per 100. CASH.

R. PABST, RUTLEDGE, DEL. CO., PA. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

PLANTS AND ROOTED CUTTINGS. Send for catalogue for varieties and prices.

Miscellaneous Plants

READY FOR IMMEDIATE SALES.

	Size pots	Per 100
Achyranthes Emersonii, etc.	2 1/4	\$3.00
Alternanthera, red and yellow	2 1/2	3.00
Ageratum, white and blue, Princeton		
" Pauline	3	5.00
" Stella Gurney	2 1/4	3.00
Cuphea Platycentra	2 1/4	3.00
Coleus, all leading varieties	3	4.00
Cannas, varieties as list above	2 1/4	6.00 & 8.00
Feverfew, double white	2 1/4	3.00
Geraniums, double and single strong	3 1/2	7.00
" special color or variety	3 1/2	8.00
" Ivy, fine varieties	3 1/2	8.00
Dracaena Indivisa, fine stock	4	25.00
English Ivy	3 1/2	8.00
Fuchsias, double and single	3 1/2	3.00
Heliotrope, light and dark vars.	3 1/2	6.00
Ivy, German	2 1/4	3.00
Lemon Verbena	3	3.00
Lantana, 12 best vars.	3	3.00
Moonflower, white	2 1/4	3.00
Petunias, single	4	10.00
Salvia, Splendens and Bedmar	2 1/4	3.00
	3 1/2	5.00
	2 1/4	4.00
Salvia, Splendens and Bedmar	3 1/2	8.00
Vinca Variegata and Elegans	3 1/2	10.00
Verbenas		3.00

GERANIUMS

BEST standard varieties, in bud and bloom, for immediate sale; stocky plants; state colors wanted; from 4 in. pots, \$8.00 per 100, \$75.00 per 1000. Salvia (Scarlet Sage), low growing, everbloom, long variety; fine plants in bloom for immediate sale, same price as Geraniums. Cash with order. Baur Floral Co., Erie, Penn. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted cuttings. Wm. Duckham, Dr. Eognehard, \$2.00 per 100. Write for other varieties. Dracaena Indivisa, Fall sown, transplanted, stocky; best for planting out, \$1.25 per 100. Asparagus Plumosus Nanus, nice plants, \$1.50 per 100; 3 in., \$4.50 per 100. Sprengeri, small plants again, July 1; 3 in., \$4.00 per 100.

WILLIAM STUPPE, Westbury Station, L. I., N. Y. Mention the Florists' Exchange when writing.

GERANIUMS

All colors and best sorts, 4 in., \$6.00 per 100. Pansies, extra strain, large plants, 60c. per 100 by mail, \$3.00 per 1000 by express. Mammoth Verbenas, all in bud and bloom, 2 in., \$1.50 per 100. Single Petunias, finely fringed, 2 1/4 in., \$1.50 per 100. Heliotrope, very dark blue, 3 in., \$3.00 per 100.

C. WHITTON, City St., UTICA, N. Y. Mention the Florists' Exchange when writing.

500,000 PANSIES

Finest Strain on the Market. We grow all our own seed and for color, variety, size and substance they are unequalled. Comparison invited. Stocky blooming plants, \$10.00 per 1000. Larger sizes, \$15.00 and \$20.00. Express only. Cash with order.

I. E. COBURN, 291 Ferry St., Everett, Mass. Mention the Florists' Exchange when writing.

EMERSON C. MCFADDEN

Wholesale Florist and Grower
Specialties
ASPARAGUS-SMILAX-ROSES
Tel. 28 A SHORT HILLS, N. J.
Mention the Florists' Exchange when writing.

GERANIUMS

Good little plants from soil, Nutt and other best doubles, \$1.35 per 100.

COLEUS

Versehaellii, G. Bedder, Corollas, red, broad gold border, per extra fine, showy kinds, 80c. Lots ready of all. Strong, branched, from soil for immediate use. Fancy, \$1.50; all other kinds, \$1.70 per 100. Small-r. fine stock, half price of the strong.

ALTERNANTHERA Fall cutgs., transplanted. Red Rng., very fine, \$8.00. A. Nana, \$7.00 per 1000. Same rate per 100 by ex.

PANSIES Very choice, \$1.00 per 100. Ask for blooms, sent free.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

GERANIUMS

IN BUD AND BLOOM
Nutt, Poitevine, La Favorite, Viaud, Mme. Bruanti, Heteranthe, Vera Vend, Mme. Landry, Mme. Barney, 3 1/2 in., \$7.00 per 100; \$60.00 per 1000. Mme. Salleron, 2 in., \$3.00 per 100; \$25.00 per 1000.

DOUBLE PETUNIAS, 3 inch, \$5.00 per 100.

THE PARKER GREENHOUSES, Norwalk, Ohio
Mention the Florists' Exchange when writing.

CLASSIFIED ADVERTISEMENTS

Cash with Order
The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.

STOCK FOR SALE

CUT FLOWERS for sale. White lilac flowers, about 500 sprays. M. H., Box 123, Cornwall, N. Y.
CANDYTUFF, Giant hyacinth flowered, nice bushy plants from 2 1/2-in. pots. Will bloom for Decoration Day. \$2.00 per 100. Cash, please. A. Relyea & Son, Ponghkeepsie, N. Y.

SITUATIONS WANTED

GERMAN FLORIST, 13 years' experience in greenhouses, making-up, landscaping, roses and carnations, wants position. Address T. C., care Florists' Exchange.
SITUATION WANTED—Single A1 grower of roses, carnations; competent worker; take charge 50,000 ft. glass. Florist, care Crane, 201 East 26th St., New York.

HELP WANTED

WANTED—Greenhouse man, steady position. Apply at once, Dimmett & Wagner, 137 Union Ave., Mount Vernon, N. Y.
WANTED—At once, good man to fill flower beds and vases. Call or write M. Wokral, 61 McConnell St., Newburg, Ohio.

HELP WANTED

WANTED—Working foreman, 15,000 feet glass, where cut flowers, bedding plants and general greenhouse stock is grown. S. S. Peckham, New Bedford, Mass.
WANTED—At once, young man for bedding out, tying vines, and general garden work; \$10 per week. Apply or write John Ralph, Saratoga Springs, N. Y.

WANTED—A first-class grower of Bride and Bridal roses. Must fully understand the business, to work under foreman; bring reference from last place; must be strictly sober and reliable; good wages and permanent place. Address or call on A. L. Thorne, Fishing, L. I., N. Y.

WANTED—Married man, good grower of roses and carnations, for commercial place, at once. \$40 per month, 3 rooms, coal and wood; no children; Protestant. Apply Onaway Greenhouses, Boonton, N. J.

WANTED—At once, an all-around florist to take complete charge of 8,000 feet of glass, cut flowers and bedding plants. Must be temperate and industrious; give references. H. B. Thompson, 10 Pike St., Canonsburg, Pa.

WANTED—A competent bookkeeper and office man familiar with the tree and plant business; good opportunity and permanent place for a man not afraid of work, and who wishes to advance. References required. Also a nurseryman of good habits; young, energetic man preferred. Fancher Creek Nurseries, Inc., Fresno, Cal.

WANTED

Two or three men for Nursery work, planting, etc.

CLUCAS & BODDINGTON CO., Palisade Nurseries, Sparkill, N. Y.

BUSINESS OPPORTUNITIES

FOR SALE—Fine plot for florist, 20 lots and house; exceptional opportunity. Address T. E., care Florists' Exchange.
TO RENT—In Greater New York, 25,000 feet of glass, 3 acres of ground, dwelling house and barn. Address P. M., care Florists' Exchange.
GREENHOUSES to let. Four beautiful Rochester greenhouses and land, only \$400 yearly. Business yielded \$1,800 annually. Cora M. Jones, 16 State St., Rochester, N. Y.

FOR SALE—Farm and greenhouses, fifty acres, five houses; 3 20x100; 2 10x100. Particulars given upon application to S. S. Penneck, 1612 Lindlow St., Philadelphia, Pa.

FOR SALE—A good bargain. Florist store and greenhouses in business center of the city; greenhouses rebuilt new last October; hot-water boiler, stable, wagon shed, bull house, three small greenhouses, all in first-class condition; splendid established retail trade in cut flowers, designs and plants. We do all the fine decorations in the Capitol City. \$1,500 cash is our price, including handsome glass refrigerator, show cases and store fixtures—not plants or supplies, which, if desired, will be sold cheaply. Any florist of ability and push can easily clear purchase money, besides living expenses, first year. Very severe lung trouble forces owner to sell. For further particulars write, or better, come and see. A. B. Machlin, 410 Market St., Harrisburg, Pa.

BUSINESS OPPORTUNITIES

FOR SALE OR TO LEASE—11,000 FT. OF GLASS; 8 ACRES OF LAND OR MORE, IF DESIRED; HOUSE AND BARN; 1 1/2 MILES FROM FINDERNE, ON THE CENTRAL R. R. OF NEW JERSEY, BETWEEN BOUND BROOK AND SOMERVILLE. ADDRESS K. H. CARE FLORISTS' EXCHANGE.
FOR SALE—The florist plant and business of the late Edward H. Howland, Holyoke, Mass. This plant consists of 31,800 square feet of land in the center of the city, with a complete and modern greenhouse equipment. The business is a wholesale and retail business, and is the leading establishment in a city of 50,000 people. For particulars apply to N. P. Avery, Administrator, No. 24 Dwight street, Holyoke, Mass.

MUST BE SOLD AT ONCE, to settle estate, nine greenhouses, each 100 feet, in fair condition; hot-water heating, with Hitchings boiler, comparatively new; six acres of cultivated ground; house of six rooms, and barn, in good condition; artesian well; steam pump. Situated 2 miles from Ridgewood, N. J., and same distance from Paterson, N. J. Present mortgage can stand. Immediate possession. Address Mrs. Bingham, Ridgewood, N. J.

FOR SALE—Our entire plant, 10 greenhouses, about 25,000 ft. glass, nearly all 16x24 ins. in size, and double thick. Iron and cedar posts, cypress bars; business established over 30 years, but entirely rebuilt in last 10 years; heating, hot water under pressure. A large percentage of income is from cut flowers and floral work; entire products sold retail. Receipts all right, books open. Terms easy. We are only 20 miles from Massachusetts State line, with some of N. H. fine summer resorts near us. Address Eliza Bros., Keene, N. H.

FOR SALE

A greenhouse establishment; about 20,000 feet of glass all double, consisting of 7 greenhouses. There are 375 running feet of Hitchings' iron frame, 3/4 span in 2 houses, 24-inch glass. There are 5 new boilers, two number 17, two number 16, and one number 54 sectional, all Hitchings, and all 4-inch pipe, Hitchings. The boilers are all new. Will be sold to be taken down, the land being cut up for building lots. Will sell whole, or any part. Must sell and vacate.

JEROME A. SUYDAM Flatbush, Brooklyn, N. Y.

Mention the Florists' Exchange when writing.

MISCELLANEOUS WANTS

WOULD like to buy or lease property with greenhouses, for New York market. Address T. C., care Florists' Exchange.
WANTED TO PURCHASE, GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLORISTS' EXCHANGE.

WANTED TO BUY

greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

MISCELLANEOUS

THREE No. 4 Lord & Burnham boilers for sale cheap. Apply to John Lange's Greenhouses, Humphrey St., Englewood, N. J.
FOR SALE—Two tubular horizontal boilers, 60 inches diameter, 22 feet long, with 18 six-inch valves. Safety valves, manheads, bolts, etc., complete; \$125.00 each. Provident Chemical Works, St. Louis, Mo.
FOR SALE—One No. 6 Cottage hot-water boiler, capacity 1,000 feet of 4-inch pipe, used on three winters; first-class condition. Will sell cheap. Frederic H. O'Neill, 56 North 7th St., Philadelphia, Pa.
FOR SALE—Modern greenhouses, 30x185; 10x12 double glass; 2-inch iron posts throughout; to be removed by purchaser. Cheap. Also 300 boxes 10x12 double glass, \$1.75; 100 boxes 16x20, \$2.70. R. Gelb & Son, Livingston St., Newark, N. J.
GREENHOUSE GLASS for sale, 6x8, 12x16, 14x20, 10x12, 12x18, 16x16, 10x14, 14x16, 16x18, 12x14, 14x18, 16x24. Double thick, at lowest prices. Address, Glass, care Florists' Exchange.

FOR SALE

Greenhouse Material and Hot-bed Sash, milled of Louisiana Cypress. Try V. E. Reich's Oxford Putty; especially made for Greenhouse and Hot-bed Sash. V. E. REICH 1429 Metropolitan Avenue, BROOKLYN, N. Y. Mention the Florists' Exchange when writing.

FIRMS WHO ARE BUILDING.

ASHTABULA, O.—Dunbar & Hopkins will build a range of new greenhouses to cover 200 x 150 feet. Roger Griswold, Jr., will also add a building 126 x 400 feet to his already large plant.
MONTGOMERY, ALA.—W. L. Patterson has secured a permit to erect three greenhouses.
UNION CENTER, N. Y.—Richard Gardner is building another greenhouse.

BUSINESS DIFFICULTIES.

DES MOINES, IA.—W. L. Morris, florist, has filed a petition in voluntary bankruptcy. Mr. Morris gives his liabilities as \$9,446.61. His assets are nothing.

Make Your Land More Productive.

You can make your land rich and fertile; make it produce greater results if you properly drain it. Jackson's round agricultural tile fills the long-felt want of everyone who desires the perfect drainage of the land. If you are interested in this subject, write to John H. Jackson, 60 Third Avenue, Albany, N. Y., for his catalogue. It will tell you all you want to know about drainage tile, sewer pipe, fire brick, chimney tops, encaustic sidewalk tile, etc.

INBUD AND BLOOM

Geraniums, 5000 S. A. Nutt, 3 1/2 in. pots, \$5.00 per 100; Gloire de France, 3 1/2 in. pots, \$5.00 per 100. Heliotrope, Chieftain and Queen of Violets, 3 1/2 in. pots, \$5.00 per 100. Canas, Florence Vaughan, Charles Henderson, Mme. Crozy, Austria, Italia, Sheandoah, Engdale, 4 in. pots, \$5.00 per 100. Verbenas, 3 in. pots, \$2.50 per 100. Vinca, 3 in. pots, \$3.00 per 100. Salvia, 2 1/2 in. pots, \$2.00 per 100. Ageratum, dwarf blue, 2 1/2 in. pots, \$2.00 per 100. Petunias, single, large flowering, 3 in. pots, \$2.50 per 100. Heliotrope, 2 vars., 2 1/2 in. pots, \$2.00 per 100. R. C. Cuphea, cigar plant, and Ageratum, dwarf blue, 5/8 in. per 100, 5000 Vinca Var. 2 1/2 in. pots, \$2.00 per 100. Nasturtium, mixed, 3 in. pots, \$2.50 per 100. Cash with order.

WM. J. CHINNICK, Trenton, N. J. Mention the Florists' Exchange when writing.

ADVERTISE

IN THE Premium Schedules OF THE Newport Horticultural Society's TWO EXHIBITIONS

To be held in the Casino, June and August Page, 6x9 ins., \$10.00; Half page, \$5.00; Quarter page, \$3.00

Mail copy before May 25 to David McIntosh, Sec. Ledge Road, Newport, R. I. Mention the Florists' Exchange when writing.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs; other makes; new; cheap.
BOILERS New and second-hand, 2 second-hand steam, first-class condition; will heat 1000 sq. ft. glass, at \$35.00 each.
PIPE Good serviceable second-hand, with Threads: 2-in., 7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 3 1/2 cts.; 1-in., 3 cts.; 3/4-in., 2 1/2 cts. 2-in. Standard, full length, with couplings, 8 1/2 cts. ft. Old and new fittings and valves.
STOCKS and DIES New Economy, best made. 1-in. pipe, \$3.00. No. 2 Thread, 1 1/4-in., 3/4-in., 2-in. pipe, \$4.00.
PIPE CUTTERS New Saunders Pattern. No. 1 cuts 3/4-in. to 1-in. pipe, \$1.00. No. 2 cuts 1-in. to 2-in. pipe, \$1.30.
STILLSON WRENCHES New. 18-in., grips 1/4-in. in 2-in. pipe, \$1.65; 24-in., grips 1/2-in. to 2 1/2 in. pipe, \$2.40; 36-in., grips 3/4-in. to 3 1/2-in. pipe, \$4.76.
PIPE VISES New. No. 1 Hinged, grips 1/4-in. to 2-in. pipe, \$2.25.
GARDEN HOSE New. 1/2-in. guaranteed 100-lbs. pressure, 7/8 cts. per ft.; 3/4-in. not guaranteed, 4/8 cts. per ft.
HOT-BED SASH New. Cypress, 3-ft. x 8 ft., from 70 cts. up; glazed, complete, from \$1.60 up. Second-hand, as good as new, complete, at \$1.25 each.

GLASS New American, 50 sq. ft. to the box, 10x12, B, Single, at \$1.40; 10x12-12x12, B, Double, at \$2.40; 12x14-12x16-14x18-14x20-16x16-16x18, B, Double, at \$2.60; 16x20-16x24, B, Double, at \$2.85.
Get our prices on New Gulf Cypress Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Paint, Points, etc.
OLD GREENHOUSES BOUGHT. METROPOLITAN MATERIAL CO. Mention the Florists' Exchange when writing.

PALMS

For Decorating
and Growing On
for Fall Trade

I have the Largest and Best Stock of **Kentias** that I have ever offered, in all sizes. Home-Grown and Healthy. They are exceedingly good value at prices quoted.



KENTIA BELMOREANA			Per doz.	Per 100
3 inch pots.....	4 to 5 leaves.....	12 to 15 inches high.....	\$2.00	\$15.00
4 " "	5 to 6 "	15 to 18 " "	4.50	35.00
5 " "	6 to 7 "	18 to 20 " "	6.00	50.00
5 " "	6 to 7 "	20 to 22 " "	9.00	70.00
6 " "	6 to 7 "	22 to 26 " "	\$1.00	\$12.00
6 " "	6 to 7 "	28 to 30 " "	1.25	15.00
6 " "	6 to 7 "	30 to 36 " "	1.50	18.00
8 " "	6 to 7 "	34 to 36 " "	2.50	30.00
9 " "	6 to 7 "	42 to 48 " "	5.00	

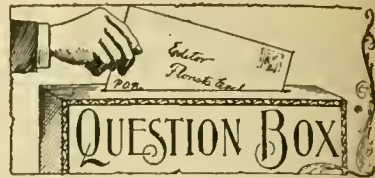
KENTIA FORSTERIANA			Per doz.	Per 100
3 inch pots.....	5 leaves.....	12 to 15 inches high.....	\$2.00	\$15.00
4 " "	5 to 6 leaves....	12 to 18 " "	4.00	30.00
6 " "	5 to 6 leaves....	28 to 30 " "	1.00	12.00
6 " "	6 leaves.....	30 to 32 " "	1.25	15.00
6 " "	6 " "	32 to 36 " "	1.50	18.00

MADE-UP KENTIA FORSTERIANA			Per doz.	Per 100
7 inch pots.....	4 plants in pot.....	32 inches high.....	Each, \$2.00	
8 " "	4 " "	36 " "	" 2.50	
12 inch tube.....	4 plants in tub.....	6 feet high, very bushy.....	" 12.50	
12 " "	4 " "	6 to 7 feet high, very bushy...	" 15.00	

All measurements from top of pot in natural position.

JOSEPH HEACOCK, Wyncote, Pa.

Mention the Florists' Exchange when writing.



Apples from Seed Under Glass.

(157) Please let me know how long it takes apple seeds to come up under glass; also tell me the proper way to care for same.

J. F. M.

—I have never had any experience in raising apple seed in the greenhouse, although it could be done on a small scale. Seeds are sometimes selected of extra choice varieties and sown with the aim of raising new and improved fruits. However, the main object in sowing apple seeds is to raise stocks on which to graft the approved standard varieties. Still, as a matter of experiment, if you have a cool greenhouse at command with a solid bed (this is preferable to a raised bench, as the moisture would keep more even in the solid bed), sow in drills covering the seed with about one inch of soil, having the rows six or seven inches apart. The only advantage to be gained by this method is that at any time during the Winter months, if you had any seed you would like to plant, you could do so. This seed could be selected, dried, and sown, instead of waiting till Spring opens up. But certainly, after the seedlings were large enough, they should be planted outside. The usual method of raising the seed is: Thoroughly clean the seed, and keep it in a dry place. Apple seed should not be kept for any length of time, as it soon loses its germinating power. The soil should be well pulverized and enriched with fine well-decayed manure. Sow the seed in drills, one inch deep, and 12 inches apart. If the seedlings come up too thickly, thin them. This is best done when the soil is moist. When a year old they are transplanted into nursery rows, two feet apart and three or four feet between the rows. Apple seed may be sown in the Fall or early Spring. If sown in the Fall a mulch of half-rotten leaves would be found beneficial.

WM. TURNER.

Insects Attacking Asters in the Field.

(158) What kind of insect infests the roots of asters in the field, and is there any remedy? We have 4,000 asters planted in the field, and are told there is a bug that attacks the roots. Can you give us any light on this subject?

F. R.

—We know of no insect that is particularly dangerous to the roots of asters. Keep the soil well cultivated and spray the young plants occasionally with tobacco insecticide after they are put in the field, and they will do all right if the soil is in a fertile condition.

ORCHIDS

Arrived in superb condition, direct from the woods, the following Orchids: Cattleya labialis, Cattleya Dowiana, Cattleya Warnerii, Laelia flava, Miltonia Candida, Dendrobium Chrysoxanthum and Burlingtonia fragrans. Write for special list, also for Catalogue of established Orchids.

LAGER & HURRELL, Summit, N. J.

Orchid Growers and Importers
Mention the Florists' Exchange when writing.

BOSTON FERNS

Palms, Dracaenas
Geraniums, Coleus

and general bedding stock in large quantities. Write for prices. Cash or references.

L.H. FOSTER ESTATE, 45 King Street, Dorchester, Mass.
Mention the Florists' Exchange when writing.

ORCHIDS FLORISTS' ORCHIDS

Largest Importers, Exporters, Growers and Hybridizers in the world.

SANDER & SONS, St. Albans, England
Agent, A. Dimmock, 31 Barclay St., N. Y. City.
Mention the Florists' Exchange when writing.

Araucaria Excelsa

From \$1.25 to \$2.00 each.

Kentia Belmoreana, from 50c. to \$5.00 each.
Rubber Plants, from \$6.00 per doz. up.

WM. A. BOCK, No. Cambridge, Mass.
Mention the Florists' Exchange when writing.

EXAMINE THIS PRICE LIST

- 1000 Boston Ferns, 4 in., 12c.
 - 1000 Boston Ferns, 2½ in., 4c.
 - 100 Scottii, 6 in., \$1.00 each.
 - 100 Scottii, 4 in., 50c. each.
 - 500 Piersoni Ferns, 3 in., 10c. each.
 - 100 Sword Ferns, 4 in., 15c.
 - 1000 Geraniums, red, 3½ in., 5c.
 - 2000 Geraniums, red, 2½ in., 2½c.
 - Balm Rose, Nutmeg, etc., 40c. per doz.
 - Ageratum, blue and white, 2½ in., 2c.
 - 1000 Heliotrope, light and dark blue, 2½c.
 - 2000 Verbenas, seedlings, separate colors, 1c.; 2½ in., 2c.
 - 2000 Scarlet Sage, 2c.; Impatiens, 3c.
 - 1000 Shasta Daisy, 2½ in., 3c.
 - 2000 Clematis Paniculata, 3 year, 10c.
 - 1000 Clematis Jackmanni, 2 year, 20c.
 - 25000 Carnations, from flats, ready to plant, fine stock. Queen Louise and Joost, \$2.00 per 100; \$20.00 per 1000.
 - 1000 Wistaria, blue, 3 year vines, 10c.
 - 2000 Honeysuckle, Golden and Halleana, field-grown, 6c.
 - 1000 English Ivy, long tops, 8c.
 - 2000 Ampelopsis Veitchii, 2 years old, 8c.
 - 2000 Ampelopsis, pot grown, dormant, long tops, 4c.
 - 5000 California Privet, 2 year, transplanted, fine bushy stock, \$3 per 100; \$30 per 1000.
 - 1000 Choice Dahlia Clumps, not named, 4c.
 - 1000 Vinca Major, var., 4 in., 8c.; 2½ in., 3c.
 - 1000 Hydrangea Otaksa, 2½ in., 3c.
 - 1000 Hydrangea Paniculata Grandiflora, 3 year, 10c.; 2 year, 8c.; 4 year, 15c.
 - 5000 Chrysanthemums, 2½ in., Wm. Duckham and Dr. Englehard, Salter, Taggart, Convention Hall, 4c.; Pacific, Polly Rose, Appleton, Eaton, Bonaffon, Silver Wedding and others, \$2.25 per 100.
 - 1000 Clothilde Souper Rose, 4 in., \$2.00 per dozen.
 - 1000 Asparagus Sprengeri, 4 in., fine, 10c.
 - 1000 Asparagus Plumosus Nanus, 3 in., 5c.
 - 1000 Tritoma Uvaria Grandiflora, field roots, 5c.
 - 1000 Abutilon Savitzii, 2½ in., 4c.
 - 10,000 Shrubs, Vines and other stock.
- Send for all lists. Cash, please.
BENJ. CONNELL, West Grove, Pa.
Mention the Florists' Exchange when writing.

Boston Ferns NICE YOUNG STOCK \$10 per 1000

ZAMIA INTEGRIFOLIA
\$12.00 per 1000

Shipped by freight. Send money order on Little River, Fla. Send for price list.

SOAR BROS., Little River, Florida
Mention the Florists' Exchange when writing.

SCOTTII

The Most Graceful Nephrolepis Known.

Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced.

Consult any grower who has bought Scottii and he will tell you that it is so far ahead of the Boston as that variety is ahead of all other introductions.

See my ad. on page 471 of issue of April 8 for full particulars.

JOHN SCOTT,

Keep Straal Greenhouses, BROOKLYN, N. Y.

BRANCH:

E. 45th St. and Rutland Road, Flatbush.

TELEPHONE, 1207 WILLIAMSBURG.

Mention the Florists' Exchange when writing.

Pandanus Veitchii

5 in. pots \$0.85 each

6 in. pots 1.00 "

Specimens, 30 to 32 in. high

from top of soil 2.50 "

Plants finely shaped and evenly variegated. Extra good value.

BEGONIAS

Gloire de Lorraine, strong plants, 3 in. pots, \$25.00 per 100.

Turnford Hall (new), strong plants, 3 in. pots, \$40.00 per 100.

Now Ready for Delivery

BOSTON FERN, 8 in. pots, \$15 per doz.

PIERSONI FERN, 8 " 15 "

Fine Plants. Good Value.

J. A. PETERSON, Florist, CINCINNATI, OHIO

Mellenny Ave., Westwood

GERANIUMS

S. A. Nutt, 3 in., ready the later part of May, \$4.00 per 100; \$35.00 per 1000. Rooted cuttings, \$10.00 per 1000. Ready for shipment.

COLEUS Rooted cuttings, Golden Bedder, Crimson Verschneffeltii, \$5.00 per 1000. Cash with order.

A Few Good Things You Want

Dracaena Indivisa, 3, 4 and 6 in., \$5.00, \$10.00 and \$26.00 per 100.

Asparagus Plumosus, 2 and 3 in., \$4.00 and \$9.00 per 100.

Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.

Geraniums, S. A. Nutt, Castellane, John Doyle, Perkins, Mme. Sallerol, Single and Double Gen. Grand La Favorite, 2 in. pots, \$2.50 per 100; 3 in. pots, \$5.00 per 100.

Vinca Var., 2 in., \$2.00 per 100.

Gladiolus Balbe, fine mixture, 75c. per 100, \$6.00 per 1000.

English Ivy, nice vines, \$6.00 per 100.

German Ivy, 2 in., \$2.50 per 100.

Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia, Coleus, red and yellow; Ageratum, blue; Alternanthera, red and yellow; Cigar Plant, 2 in. pots, \$2.00 per 100.

Cannas, red and yellow, and var., 3 in. pots, \$5.00 per 100.

Cash with order

GEO. M. EMMANS, Newton, N. J.

Mention the Florists' Exchange when writing.

PALMS AND FERNS

Boston Ferns, 2½ in. pots, \$4.00 per 100; \$35.00 per 1000; Piersoni and Boston Ferns, 8 in., \$50.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety, from 2½ in. pots, \$3.00 per 100; \$25.00 per 1000. Lantana Bonbonia, 3 in. pots, \$6.00; 4 in., \$16.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up.

Kentia Forsteriana and Belmoreana, from 2½ in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$26.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Area Lutescens, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants, from \$1.50 up.

Araucaria Excelsa, 4 in., 45c.; \$6.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. Araucaria Compacta, from \$1.00 to \$3.00 each. Pandanus Ullis, 8 in. pots, 50c. Dracaena Indivisa, 5 in. pots, \$16.00 per 100. Phoenix Reclinata, 6 in. pots, \$35.00 per 100; \$4.50 per doz.; 8 in. pots, \$9.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$85.00 each.

Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa.

Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Hydrangeas.

Any hydrangeas that have bloomed and missed the Easter sales should be cut in so as to leave about half the length of the branches. Any pruning more severe than this will result in a sturdy and sometimes very dense break of new growth, which, however, coming from the lower part of the branches, will not produce flowers the next season, although such plants will be a mass of fine flower-trusses the year after next. Only with one-sided, shy or crippled plants this procedure may pay; but with the general run of market hydrangeas it is not the proper way of pruning the full-grown plants if an abundance of bloom next season is wanted. At this time of the year the matured shoots, especially those that terminated in a truss, are shortened in to half their length, and the later the season or the farther we get into Spring the shorter must be the top cut off in pruning. In June the last of this work is done and the tops then cut off are utilized for cuttings. But more of this at the proper time.

Hydrangeas are fine and fast-selling plants for the Memorial Day trade, small-sized plants at that time proving very profitable to handle. All the plants coming right for that important day must now have plenty of room and light, any amount of water and tobacco fumigation several times a week until the true rose color of the flowers shows.

Primulas.

The old plants of *Primula Forbesi* and *P. obconica* need not be thrown away after they have done flowering, as many of the florists do. They can be torn apart and the divisions planted into small pots and grown on. Good, bushy plants are thus obtained for next year's trade. The seeds of *Primula Forbesi* and *P. sinensis* must now be sown if flowering plants for the early Winter months are wanted. Later sowings, up until the end of June, may be made for a succession of plants in their prime and always just right for a continuous plant trade all through next Winter and Spring.

Points of importance in the culture of all primulas are a good drainage in seed pans and pots, an abundance of pure air and timely ventilation and the use of a sweet, sandy, very porous, non-baking soil. Good primulas cannot be grown in a loam that has a tendency to bake, to form a solid mass every time it becomes a little dry. A good sandy compost, partly decomposed sod and some gritty leaf mould in equal parts make a good mixture for primulas, nice for the seeds and fit for the plants in pots. The seeds should be covered but lightly, preferably with finely sifted moss. As soon as the plantlets can be handled, when two or three true leaves have been made, a transplanting into trays becomes necessary. In the case of young primulas, a potting up of the plants at this stage does not offer the advantages that a pricking off would. Even another transplanting after this, as soon as the plants appear crowded, into boxes, instead of pots, will render their treatment easier and will give greater assurance of entire success. Then when they have reached a size requiring a 3-inch pot, it is time enough to begin pot culture. In potting primulas, especially the Chinese, some extra care should be exercised to set the plants deep enough to keep them from listing to one side or falling over when sprinkled. The very flexible neck of the plant, unable to carry the heavy crown in an erect position, should be under ground, but only deep enough to secure firmness and not too deep, which would cause the crown to decay. During the Summer primulas fare best in a frame out of doors, where, in the matter of watering, shading and ventilation, they are least liable to suffer from extremes in these essentials. In the Fall they should be kept there and out of the greenhouse as long as ever the weather allows, a cold frame with close-fitting sashes being at that time a much better place for them than a steam-heated greenhouse.

Cinerarias.

The seeds of *Cineraria hybrida* as well as of *C. stellata* may now be sown. Of the former the last sowing for this season should be made in July, which will provide the flowering cinerarias for next Easter. As to the sowing of the seeds, the requirements of the young stock, the need of abundant ventilation and room for the growing plants and their treatment during our hot Summer months, the same advice as given for primulas above will, if followed, lead to success in the culture of cinerarias. A richer soil, however, may be employed here; and the shading on

NEPHROLEPIS BARROWSII



Of all the new forms of Nephrolepis this is the

HARDEST and BEST

Fronds more dense, more finely pinnate, of more massive and delicate effect.

Thrives in same temperature and under same conditions as the old Boston Fern. Having more fronds than any other form, well supported by stout midribs, it is of more shapely and bushy habit.

Very Dwarf and Compact

A decided improvement over other introductions and is admitted by the highest authority to be the

Best Introduction Up-to-Date

For all Purposes

Prices for 2 1/2-inch stock from Bench.

Per 100 - - \$25.00

Per 1000 - - 200.00

500 at thousand rates

BOSTON FERN * SCOTTII FERN

\$30.00 per 1000

\$100.00 per 1000

HENRY H. BARROWS & SON

WHITMAN, MASS.

Distributors: { **R. & J. FARQUHAR & CO., Boston, Mass.**
H. A. DREER, Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FERNS A good variety of the right kind for filling fern dishes, etc., 2 1/2 inch, \$3.00 per 100; \$25.00 per 1000.

DRACÆNA INDIVISA 6 in., 35c. and 50c. each; 4 inch, \$10.00 per 100.

Mme. Salleri Geraniums, Coleus, Salvia Splendens 2 1/2 in., \$2.00 per 100.

SALVIA, from flats, \$1.00 per 100.

H. WESTON, Hempstead, N. Y.

Mention the Florists' Exchange when writing.

SMILAX SPRENGERI

Well grown carefully packed plants in any quantity.

\$1.50 per 100; \$12.50 per 1000

\$2.00 per 100; \$15.00 per 1000

150,000 to SELECT YOUR ORDER FROM

Plumosus-Deflexus-Decumbens-Pansies-Geraniums

SEND FOR SUMMER PRICE LIST

ALBERT M. HERR, Lancaster, Pa.

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FERNS OUR SPECIALTY

Assorted Ferns for Jardinieres. We have a fine lot of these Ferns in all the best varieties ready for immediate use from 2 1/2 in. pots at \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

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We are booking orders now for June delivery at \$1.00 per 1000; \$8.50 per 1000.

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CABBAGE in any quantity. Winoingstad, Early All-Head, Sure-Head, Succession, Early and Late Flat Dutch, Hollander, etc. \$1.00 per 1000; \$8.50 per 10,000.
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PEPPERS Bull Nose, Sweet Mountain, Ruby King, 25c. per 100; \$2.00 per 1000.

Miscellaneous Plants

Ageratum, Stella Gurney, 40c. per doz.; \$2.00 \$17.50
Alyssum, Giant Double, 40c. per doz.; 2.00 17.50
Alternanthera, low in var., red and yellow, 2.00 15.00
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Canterbury Bell, single and double blue, 1.50
Caranations, Dwarf hardy mixed, 1.50 12.50
Centaura gymnocarpa, 1.50 12.50
Coleus, in good variety, 2.00 16.00
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Delphinium Formosum, 1.50 12.50
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Geraniums, Rose, Lemon, Mrs. Taylor and Fernfolitis odorata, 2.00
Hardy Chrysanthemums, small-flowering varieties, 2.00 17.50
Hardy Chrysanthemums, large-flowering varieties, 3.00 20.00
Hardy Phlox, 10 named var., 3.00

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List.
Our Collection of HARDY POMPON CHRYSANTHEMUMS is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

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Of my largest flowering mixture of Show Varieties, unsurpassed quality, fine strong plants, coming in bud, at \$3.00 per 1000. Large plants, in bloom, \$1.00 per 100; \$8.00 per 1000. 500 at 1000 rate.
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100,000 PANSIES SUPERB STRAIN READY NOW
Fine, large Fall transplanted Pansies, in bud and bloom. A trial order will convince you that these are the best you ever handled. Cash with order.
\$1.25 per 100; \$10.00 per 1000
GERANIUMS, from 3 1/2 in. pots, \$6.50 per 100
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Double, Fine Variety and Stock 2 in., 2 cts.
Rooted Cuttings, prepaid. Cuttings, plants Per 100 Per 1000
Ageratum, Pauline, Gurney, \$0.50 \$2.00
Salvia, Bonfire, Splendens, Silverveit, .90 2.00
Petunia, d'ble, 10 finest, Fuchsia, 5 kinds Paris Daisy, .75 2.00
Hardy Plinks, 6 sorts, .75
Feverfew Gem, 2.00
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Coleus, 12 best bodders, 1.00 \$5.00
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Smilax Seedlings, 30c. 100; Centaura, 60c. 100
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Vinca Variegata, R. C., 90c. per 100.
Cash. Direct all orders plainly to
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(Continued) Per 100 1000
Heliotrope, good varieties, \$2.00 \$17.50
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Odorata gigantea, 3.50
Nymphæa, 50c. doz., 3.50
Petunias, Dreeer's double mixed 2.50
Dreeer's superb single mixed 2.00 15.00
Sage, Holt's Mammoth, 2.00 15.00
Salvias, in variety, 2.00 17.50
Smilax, strong, 2.00 15.00
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Vinca, (Madagascar Periwinkle), 1.50

GERANIUMS

Young Stocky Plants from 2-in. pots
DOUBLE. Per doz. 100 1000
Alph. Ricard, \$0.40 \$2.00 \$20.00
Branat, .40 2.00 20.00
Centaura, .40 2.00 17.50
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Jenn de la Brete, .50 3.00
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Mme. Laundry, .40 2.00 17.50
Marquis de Montmart, .40 2.00 20.00
Marquis de Castellane, .50 3.00 25.00
Miss Frances Perkins, .40 2.00 17.50
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Ville de Potiers, .50 4.00
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Our selection of 10 varieties, 600 for \$3.75; 1000 for \$15.00, cash.

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R. VINCENT, JR. & SON, White Marsh, Md.
Mention the Florists' Exchange when writing.

Pansy Plants

From our well-known strain, fine plants in bloom, \$1.00 per 100; \$8.00 per 1000. Plants ready to bloom, \$3.50 per 1000.
DAISIES (Bellis) red and white, \$2.00 per 1000.
Ageratum, Sweet Alyssum, Salvia, Cigar Plants, Double Petunia, and Chrysanthemums, out of 2 1/2 in. pots, \$2.00 per 100; \$17.50 per 1000.
J. C. SCHMIDT CO. BRISTOL, PA.
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PANSIES—200,000

Fine, large, transplanted plants, prize strain of the famous large flowering Bugnots, Cassiers, Odier and Trimsrdean. Stocky plants, from cold frame. 5cets. per 100, by mail; \$3.00 per 1,000, by express. Extra large plants, in bud and bloom, \$1.00 per 100. Verbena, Mammoth, R. C., 80c. per 100; \$5.00 per 1000; 2 1/2 in. pots, in bud and bloom, \$1.50 per 100; \$12.00 per 1000. Stocks, Double White for Easter, \$1.00 per 100, \$8.00 per 1000; Daisies, Double White, 75c. per 100, \$5.00 per 1000; Feverfew, Double White, \$1.00 per 100, \$8.00 per 1000; Lobelia Dwarf Blue, \$1.00 per 100; Ageratum, Dwarf Blue, 80c. per 100; Lobelia, in bud and bloom, 3 in., \$1.00 per 100. Coleus, mixed colors, 2 1/2 in., \$1.50 per 100.
Petunias, Double fringed and dark blue, Heliotrope, bud and bloom, 4 in. \$8.00 per 100.
HILLTOP GREENHOUSES, 15-16 Gray Ave., Ulica, N.Y.
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PANSIES 75,000

Fall Transplanted, large plants, in bud and bloom, an extra fine Market Strain of good colors and large bloom, \$1.25 per 100; \$10.00 per 1000; 250 at 1000 rate. Cash with order.

Charles Potter WEST BOYLSTON, MASS.

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very bright Summer days need not be so heavy as that used as a protection for primulas. And, unlike primulas, the cinerarias are greatly harassed by green fly, even outdoors at times, and the wise cultivator is not slow in taking precautionary measures in making free use of the various nicotine remedies and in replenishing his supply of tobacco stems.

Spiraeas.

Spiraeas or astilbes are good plants for Memorial Day. Of course, at this time of year no fire heat or special treatment is required to bring them out to perfection. A light bench, lots of air and a great deal of water at their roots is what they most need. Astilbes must not be flowered in a house that is stocked with other plants requiring fumigation, since tobacco smoke spoils the foliage of astilbe. This plant, to my knowledge, is never troubled by insect pests. Much better than the old Spiraea japonica are the newer forms of recent introduction. Washington and Superba are varieties showing a great improvement, but the finest of the newer sorts is probably the variety Gladstone, wherever it can be grown successfully.

Celestial Peppers.

It is not too late now to start seeds of celestial peppers, though they might not prove Christmas peppers, as they are more often called. These plants are now much in favor, and they fully deserve the careful treatment now granted them by all growers of holiday stock. The seeds are sown in shallow boxes, the single grains sufficiently far apart to insure an even stand and to avoid a crowding of the plantlets after they are above ground. Any kind of good, mellow soil may be used in this culture. When the seedlings are large enough they are planted into small pots and afterward repotted as they need it until by the middle of August they go into the selling-size pots—the 6-inch. These peppers very soon show the effects of neglect in the matter of a timely repotting when they are making their growth and striving for size. Any such plants that have at this period once been overlooked and slighted by the transplantor and have been allowed to become tightly and thoroughly pot bound before full bearing size has been attained, will never be first-class plants.

On some places these plants are grown in the open ground during the greatest part of the Summer, and then potted up and included to make good plants for the holiday trade. I prefer to grow them in pots altogether, and although the plants certainly make a thrifter, stockier growth in the open field, they lose much of what they have thus gained in the transfer from the field to the pot. All solanums lift badly, and quickly lose their lower foliage after being potted up. Those under continuous pot culture do fine in a cold-frame in the Summer, but must have lots of space between plants and a loose mulch between the pots to guard against a frequent and severe drying out and a burning of the roots on the inner side of the pot. A little shading is good for them at the hottest hours of the day, but too much of this is worse than none at all; and as regards this point in the Summer treatment of some of our most important market plants, inexperienced growers have yet much to learn. Too dense and an untimely shading and an unreasonable, ceaseless drenching with an overflowing stream out of an ever-ready hose have undone and made useless many a fine start in the raising of these plants.

Peppers started last month or earlier may not have had proper attention during the holiday rush. They should now be taken good care of. A fine lot of these so easily grown plants is ready money next Winter. Lots of time to put them outdoors. Frost, or even chilly weather, must not touch them.

Jerusalem Cherries.

Among decorative berried plants Solanum capsicastrum is still one of the best. It certainly is the one most easy to raise and to grow, and where special pains are taken to raise plants only a little better than the average batch of Jerusalem cherries seen at the plant shops, this extra care is sure to be rewarded by rapid sales of the product at prices astonishingly high when closely compared with those realized from the sales of other holiday stock. Most growers of market plants are very prone to fall into the error of regarding any plant, old and well known, with unusual staying qualities and easy of culture, as one of but little value and hardly worth while considering when laying the plans for a coming season's work. Because they are good sellers, even if ever so poorly grown, and the very fact that they are as easy to grow as few their less favored things, has established a standard of quality in these plants on our markets which is deplorably low as compared with that upheld by the growers of

PANSIES THE JENNINGS STRAIN.

Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order.
E. B. JENNINGS, Lock Box Southport, Conn. 254.
Grower of the Finest Pansies.
Mention the Florists' Exchange when writing.

GERANIUMS

Fine 4 in. plants, in bud and bloom, \$3.00 per 100; 25c. per crate. A. Hcard, S. A. Nutt, Marvel, Jean Vland, M. Chevallens, Mrs. Landry, Treco and M. De Caetellans, \$10.00 per 100.

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ROOTED CUTTINGS
Lord Hoptonn, Ben Wells, Et. Bonnefond, Cecil Cuts, Vivand-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Percy Plumridge, Thirkell, White Bonaffon, Mrs. Chamberlain, C. H. Diederich, Dr. Enguehard, Chelton, Ida Barwood, S. T. Wright, Chevrant, \$3.00 per 100.
Major Bonaffon, Mrs. Jerome Jones, Yellow Jones, Mrs. Robinson, F. S. Yalls, Mrs. Coombes, Clara, Mrs. T. M. Pockett, Marie Liger, M. Donat, Paul Sabut, Dalakov, Ivory, Boccasse, Col. Powell, Mayflower, C. J. Salter, White Maid Dean, Mounier, \$2.00 per 100.
Cash, or C. G. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.

Mention the Florists' Exchange when writing.

GERANIUMS

S. A. Nutt, John Doyle, Mme. Buchner, Miss F. Perkins, 3 1/2 and 4 in. pots, \$5.00, \$6.00 and \$7.00 per 100. J. Vland, 3 in. and 3 1/2 in. pots, \$5.00 and \$6.00 per 100. J. J. Harrison, 3 1/2 in. pots, \$8.00 per 100. Mme. Sallerol, 2 1/2 in. pots, \$3.00 per 100; extra strong.
Cannas, from pots, \$5.00 per 100.
We also have a large line of Bedding Plants and Hardy Perennials. Cash with order.
J. B. SHURTLEFF & SON Cushman Ave. REVERE, MASS.
Mention the Florists' Exchange when writing.

YOUR OPPORTUNITY

Nice Double Geraniums, 4 in. pots, \$7.00 per 100. Vinca Variegata, 4 in. pots, \$10.00 per 100. Best varieties of double Asters, mammoth Verbenas and Salvia, in soil, 14 plants in box, \$15.00 per 100 boxes. Large field-grown Pansies, bud or bloom, elegant collection, \$1.25 per 100, \$10.00 per 1000. Cash with order.
C. S. CHASE, Dighton, Mass.
Mention the Florists' Exchange when writing.

Worcester Conservatories

WHOLESALE AND RETAIL FLORISTS
150,000 Stocks, white, cut flowers, 50,000 Asters Plants, 50,000 Verbenas, 50,000 Stocks, various colors, plants, Bride, Bridemaid, Golden Gate, Mme. Abel Chastelay, and American Beauty. Also 5,000 1-year-old American Beauty.
Prompt Attention Given All Orders.
WORCESTER, MASS.
Mention the Florists' Exchange when writing.

SCARLET SAGE

2 in., \$2.00 per 100. Per 100
Verbena, 2 in., \$2.00
Alyssum, Little Gem, 2 in., \$2.00
Vinca Variegata, 2 in., \$2.00
3 in., \$4.00
Also Petunias, Fuchsiae, Asters, Cosmos, Chrysanthemums, Cryptomerias, Smilax, etc.
E. I. RAWLINGS, QUAKERTOWN, PA.
Mention the Florists' Exchange when writing.

ENGLISH IVY

Fine plants, out of 6 in. pots, 25c.
Out of 4 in. pots, 10c.
FORGET-ME-NOT, \$4.00 per 100
DAISIES, 2.00
PANSIES, 2.00
Please send cash with order.
Chas. Zimmer, West Collingswood, Near N. J.
Mention the Florists' Exchange when writing.

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PANSIES COLEUS

Extra fine transplanted, from cold frame, in bud and bloom, \$1.50 per 100; \$12.00 per 1000.
Rooted cuttings, Golden Bedder, Crimson Ver-schaffeltii, 60c. per 100; \$5.00 per 1000.
Cash with order.
PETER BROWN, Lancaster, Pa.
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BEDDING PLANTS

Just Ready for the Retail Trade
2000 Geraniums, Standard Sorts, 4 in. 6c.
1000 " Sturdy Plants 3 in. 3c.
2000 Coleus in variety, 2 1/2 in. 2 1/2 c.
1000 Verbena, Strong Plants, 3 in. 3c.
300 Heliotrope in flower, 4 in. 6c.
300 Salvia Splendens, 3 in. 3c.
200 Petunia, double in bud and flower, 4 in. 6c.
300 Ivy Geraniums, 6 eorts, 3 in. 3c.

MAURICE J. BRINTON, Christiana, Pa.
Mention the Florists' Exchange when writing.

VIOLETS

MarieLouise, sand rooted cuttings; \$1.50 per 100; \$15.00 per 1000.
DAISIES Snowball and Longfellow; 2 1/2 in. pots, \$1.50 per 100; from soil, \$1.00 per 100.

GERMAN IVY 2 1/2 in. pots, \$2.50 per 100. Cash with order.

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COLEUS

2 1/2 in., \$2.00 per 100.
HELIOTROPE 2 1/2 in., \$2.00 per 100.
Cash with order, please.

W. H. PARSIL, Summit, N. J.
Mention the Florists' Exchange when writing.

IVY

Hardy large leaf variety, bushy, 4-5 ft. high, 5 in. pots, \$15.00 per 100. Rooted cuttings, very strong, 5-8 eyes, \$1.25 per 100; \$10.00 per 1000. Lemon Verbena, stock plants, 4 in. pots, \$5.00 per 100. Cash with order please.

JOHN RECK & SON, Bridgeport, Conn.
Mention the Florists' Exchange when writing.

Variegated Funkia

Strong field-grown clumps, \$10.00 per 100; from pots, \$5.00 per 100.

DRACÆNA INDIVISA From 15 cts. up to \$1.00 each.
CALLAS Strong plants, in bud for decoration Day, 30 cts. each.

K. E. JUUL, 27 Broad St., Elizabeth, N. J.
Mention the Florists' Exchange when writing.

HEADQUARTERS FOR COLEUS

Geraniums, all sold for the month of March, except Rose Geraniums at \$2.00 per 100, 2 1/2 in. pots.
Fuchsias, in variety, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, \$1.50 per 100.
Coleus, 2 1/2 in. pots, \$2.00 per 100; rooted cuttings, 80c. per 100. Golden Bedder and Verschaffeltii in quantities, \$5.00 per 1000.
Heliotrope, all dark, 2 1/2 in. pots, \$3.00 per 100; rooted cuttings, \$1.00 per 100.
English Ivy, 2 1/2 in. pots, \$2.50 per 100; rooted cuttings, \$1.25 per 100.
German Ivy, 2 1/2 in. pots, \$2.50 per 100.
Abutilon, Sonvenir De Bonn, 2 1/2 in., \$3.00 per 100.
Feverfew, 2 1/2 in., \$2.50 per 100.
Dracæna, 4 in., \$3.00 per 100.
Bina Lobelia, 2 in., \$3.00 per 100; R. C., \$1.00 per 100.
Hydrangea Otakea, 4 in., \$3.00 per 100.
Salvia, 2 in., \$2.00 per 100; R. C., \$1.00 per 100.
Ageratum, Stella Gurney, Princess Pauline and others, 2 in., \$1.50 per 100; R. C. 80c. per 100.
Double Petunias, 2 in., \$2.50 per 100; R. C., \$1.50 per 100. Cash must accompany the order.

J. E. FELTHOUSEN, Schenectady, N. Y.
Mention the Florists' Exchange when writing.

DAHLIA Kaiserin Augusta Victoria

THE BEST WHITE DAHLIA IN EXISTENCE.
My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 5 in. in diameter; a wonderful bloomer, stems 12 to 18 in. long; plants 3 to 3 1/2 feet high.
The finest plants obtained from cuttings. Good strong stock from 2 1/2 in. pots, \$3.00 per dozen \$30.00 per 100. Delivery May 1st. Orders filled in rotation. Early booking, early sale.
Highly commended by the American Institute and the New York Florists' Club.

A. L. MILLER, - Jamaica Avenue, Brooklyn, N. Y.
Mention the Florists' Exchange when writing.

GERANIUMS

Per 100
10 Var., fine plants, my selection, 3 in. pots \$5.00
Alternantheras, red and yellow, 2.00
Plumosa Seedlings, 1.50
Sprangeri, ready July 1st.
Smilax, ready in June 1.25
Pansy Seed, ready in July, \$1.00 the oz.
Asparagus Plumosa, 2 1/2 in. pots, 2.00
" Sprangeri, 2 1/2 in. pots, 2.00

CASH OR C. O. D.

JOSEPH H. CUNNINGHAM, Delaware, Ohio
Mention the Florists' Exchange when writing.

similar stock in Europe. There probably was a time when it did not pay to lavish special attention and care on the growing of plants of this class, but we have passed this period of slovenly horticulture, and the plantsman will have to do a little of the real gardening as well as the mere hustling, which latter alone will not make him catch up with the growers of cut flowers, who, in this respect, are far ahead of him. Few growers of market plants have any idea what, by good culture, can be done with such plants as Jerusalem cherries, geraniums, mignonette, wallflower and many others of the same class, mostly grown as pot plants, and these growers may even deride the belief that there is money in good, thorough-going gardening. But enough of this at present and back to our subject.

The old plants of Solanum capsicastrum should now be sharply cut back to about 2 inches of last year's growth, and after this no other pruning or pinching should be practiced, but the cutting away of straggling and weak shoots, which may start later on. These old plants may be grown in the open field and again be reported in September or October. But if constant pot culture has to be resorted to, a repotting into new soil and pots of the same size, or even smaller, becomes necessary. This is done after the new growth has fairly started on the old wood. The old soil is then shaken from the roots and the plants given as small a pot as is consistent with good looks and the size and welfare of the specimen. The plant will set an abundance of fruit in an ordinary good soil, while in a very rich potting compost, the foliage will be luxuriant, but the berries few. A frame outdoors, where the pots can be sunk deep into some loose material, is a good place for potted solanums. They will, during the Summer, call for great quantities of water, and this necessitates ample drainage in the pots. An occasional feeding in liquid form at this time will be of good value.

Young plants are treated much in the same way. They have been started, either from seeds or from cuttings, early in the year, and should now be in 3-inch pots. Seedlings should be pinched back repeatedly or their growth is too straggling; while those raised from cuttings, unless one-sided or misshapen, should not be stopped if graceful, naturally built up plants are wanted.

Cosmos.

Now is the time to sow cosmos outdoors in the place where it is wanted to bloom. Sow three or four seeds in hills 2 feet apart, and when up thin out, leaving the strongest plant. If cosmos is grown extensively for the cut sprays in the Fall, the rows should be at least 4 feet apart. A good many growers of this profitable annual prefer to transplant early started seedlings from flats or pots into the field. By this method little or nothing is gained and much time and labor lost.

Tuberose.

Instead of planting the bulbs of tuberose out in the open or into frames outdoors, just as they are when received, they should first be started in a pretty warm house in 4-inch pots and planted out after some top growth has been made. The middle of June, or even later, is time enough for the planting out of tuberose. The undeveloped flower spike is most easily damaged by cold rains and inclement weather. Much better spikes of bloom are raised if the tuberose are grown right along in pots and flowered under glass than if cultivated in the field.

Hanging Baskets.

It pays to stock a number of hanging baskets in time and before they are ordered. Get them well started; use all kinds and sizes of baskets and strive to have a variety as to the plants used in filling them. Have them suspended from the rafters in conspicuous places, and never let them become thoroughly dry, which, with earthenware baskets, means a watering twice a day.

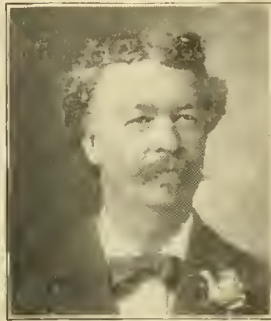
FRED W. TIMME.

COLEUS

Per 100
12 Varieties, 2 1/2 in. pots, \$2.00
Seedling Petunias, 2.50
Centaura Gynocarpa, 2.00
Primroses, Chinese Obconica and Forbesii, July 1st, 2.00

CASH OR C. O. D.

JOSEPH H. CUNNINGHAM, Delaware, Ohio
Mention the Florists' Exchange when writing.



Plants out of 4 in. pots, at \$7.00 per 100 in the following varieties:

GERANIUMS, 15,000, S. A. Nutt, best double crimson; La Favorite, best double white; Mme. Thibaut, best double pink, La Filote, best double scarlet; Ageratum, dwarf blue; Heliotrope; Scarlet Sage, Clara Bedman (3 in., \$5.00); Begonia Vernon, dark red or pink, (3 in., \$5.00); Nasturtium, all colors; Fuchsias, 10c., (5 in., \$1.50 per doz.); Periwinkle or Vinca Variegata, 10c., (2 1/2 in. to 3 in. 6c.); Ivy Geraniums, Tuberose rooted Begonias, (5 in., \$2.00 per doz.); Dracæna Indivia, broad leaved, imported, 30 in. high, 50c. each; home grown, 6 in., 25c. Hydrangea Otakea, 6 in. pots, some show buds, some not; for outdoor planting, 25c. to 35c. each.

The following is a list of small plants out of 2 1/2 in. pots at \$3.00 per 100: Coleus, Verschaffeltii, Queen Victoria, Golden Queen and Fancy; Verbena, have 10,000; Petunias, inimitable variegated California Giant, (3 in. pots, 5c.); Sweet Alyssum, Little Gem; Lobelia, dwarf and trailing; Cuphea; Tradescantia, 3 varieties; Pyrethrum Aureum; Phlox Drummond; Parlor Ivy; beautiful variegated Grass for vases, 10c.; Sallerio Geraniums, 25 sold at 10c. rate.

I have a fine new variegated Carnation of my own, not named yet; the odor is like the real clove; admired by everyone who has seen it. 3 in. pots, 15c.; 2 1/2 in., 10c. Have only 600 of them.

Many thanks to my customers for their liberal Easter trade. All goods must travel at purchaser's risk. Cash with order, please.

GODFREY ASCHMANN, 1012 ONTARIO STREET, PHILADELPHIA, PA.

WHOLESALE GROWER AND IMPORTER OF POT PLANTS
Mention the Florists' Exchange when writing.

PANSIES Extra fine plants, twice transplanted, \$5.00 per 1000.
Geraniums, leading varieties, bud and bloom, 4 in., \$3.00 per 100.
Verbena, Mammoth, bud and bloom, 2 1/2 in., \$1.50 per 100; \$12.00 per 1000.
Coleus, mixed, \$1.50 per 100.

HILL TOP GREENHOUSES 15-16 Gray Ave., UTICA, N. Y.
Mention the Florists' Exchange when writing.

FINE PLANTS

In 2 1/2 inch pots, 3 cts. each.
Dbl. Sweet Alyssum Kenilworth Ivy
Cobæa Scandens Lobelia
Dwarf Cosmos Semple's Asters
Dusty Miller Poppies
Cash with order

HUNTINGDON GREENHOUSES, Huntingdon, Pa.
Mention the Florists' Exchange when writing.

SWEET WILLIAM

Extra fine plants, assorted colors, just coming in bud, 3 in. pots, 5c.
Coreopsis Lanceolata Grandiflora. 2 1/2 in. pots, 4c.
Canterbury Bells, 3 in., strong plants, 5c.
Asparagus Plumosa Nana, fine stock, 2 1/2 in. pots, ready to shift, 3 1/2 c. Cash, please.

R. G. HANFORD, Norwalk, Conn.
Mention the Florists' Exchange when writing.

100,000 Alternantheras

Strong rooted cuttings, P. Major, red, 50c. per 100; \$1.00 per 1000. A. Nana, yellow, 50c. per 100; \$4.00 per 1000. Red and yellow, from 2 in. pots, \$1.50 per 100. Special prices on 5000 or more.

DAVIS BROS., Morrison, Ill.
Mention the Florists' Exchange when writing.

ENGLISH IVY

2 1/2 in., \$2.50; 2 in., \$2.00; 4 in., (2 plants in a pot) \$8.00. English Ivy Variegated, 2 in., \$2.00. Vinca Var. Major, 2 in., \$2.00; 4 in., \$7.00; Rooted Cuttings, \$1.00. Mine. Sallerio Geraniums, German Ivy, Gloriosa, 2 in., \$2.00 per 100. Nasturtium, double, yellow, 2 in., \$2.00. Sweet William, (mixed) 2 1/2 in., \$2.00. Cash or C. O. D.

J. H. DANN & SON, Westfield, N. Y.
Mention the Florists' Exchange when writing.

LIKE THE BEE

A PROSPEROUS florist is never idle; do like this busy little insect—the bee—take advantage of the great work the nerve-resting florist, Godfrey Aschmann, and his people have done since Easter. 1,000 of them swarming and enjoying their lives in Aschmann's Greenhouse. "O! Aschmann's flowers taste so sweet," the bees say; "we cannot stop; we have a big field to work on; 100,000 of the choicest; every hole and corner full; let us harvest." Secure Bargains now, and for Decoration Day. Please note our lowest prices.

DON'T FORGET THAT I AM THE MOON VINE GROWER OF THE LAND.

A. W. Smith's Hybrid Moon Vine, Ipomœa Noctiflora, is the one I grow exclusively. It is the only true Moon Vine in America. Mr. Smith has a world-wide reputation for growing the best Moon Vine seed. Please bear in mind that this is no Morning Glory, like some sell for Moon Vines, but the pure white, waxy moon-flower, as large as saucers. 2 1/2 in., \$5.00 per 100. Nicely staked up.

Araucaria Excelsa. Just arrived from Belgium per steamer Etanlan, May 1st (3,000, 2,000 more are coming by next steamer), grown for me under contract by an American Araucaria specialist in Belgium. I must say for the benefit of my customers that they were never before so nice and large for the money as this year. I herewith quote you special prices on them: just look: 10 to 12 ins. high, 2 yr. old, 3 tiers \$0.50
12 to 14 ins. high, 3 to 4 tiers75
14 to 16 ins. high, 3 yr. 3 to 4 tiers60
18 to 20 ins., 3 yr., 4 to 5 tiers 1.00
Specimen, 30 to 35 in., \$1.50. A. Compacta, very beautiful, unusually large, \$1.00 to \$1.25 each. A. Glauca, 75c. to \$1.00.

Kentia Foresteriana, 30 to 36 in. high, 4 yr. old, \$1.00; 4 yr. old, 25 to 30 in. high, 75c. Bellmoreana, 4 yr. old, 25 to 30 in. high, \$1.00 each. Above are the sizes entered in the Philadelphia Customs House.

Ficus Elastica, imported, 4 in. pots, 25c.; ready June 1st.

DRACÆNAS

20 to 30 in. high, 8 in. pots, \$2.00 to \$3.00 per doz.

VINCAS 4 in., strong, \$5.00 per 100.

Pansy Plants Large, in flower, \$1.25 per 100.
GEORGE H. BENEDICT, Yorkville, N. Y.
Mention the Florists' Exchange when writing.

BEDDING PLANTS

Per 100
Little Gem Alyssum, Verbena, Lobelia speciosa and compacta, 2 1/2 in. pots, \$1.50
Petunia, Howard's Star and California, 3 in. pots, \$3.00 per 100; 4 in. pots 5.00
Cannas, Vaughan's, Henderson, 3 in. pots 3.00
Charlotte, Egandale and Bronze, 4 in. pots, 5.00
Dracæna Indivisa, 4 in., 5 in., 6 in. pots, 10c., 20c., 40c.
Asparagus Plumosa, 2 1/2 in. pots 2.50
" " 3 in. pots 5.00
" Sprangeri, 2 1/2 in. pots 2.00
Vinca variegata, 4 in. pots 10.00
Pansies, in bloom 1.60
Forget-me-not 1.00

J. S. BLOOM, Riegelsville, Pa.
Mention the Florists' Exchange when writing.

COLEUS

Verschaffeltii, Golden Bedder, and 16 assorted rooted cuttings, 60c. per 100; \$5.00 per 1000; 2 in. pots, \$1.50 per 100. Giant Fancy Leaf, \$1.00 per 100.

AGERATUM, Pauline and Gurney, rooted cuttings, 60c. per 100; 2 in. pots, \$1.50 per 100. SALVIA, HELIOTROPE, VINCA VARIEGATA, ALYSSUM, FUCHSIAS; rooted cuttings, \$1.00 per 100; 2 in. pots, \$2.00 per 100; 3 in. \$3.00 per 100. ALTERNANTHERAS, P. Major, \$6.00 per 1000; A. Nana, \$4.00 per 1000. MARGUERITE Carnation Seedlings, 75c. per 100; 2 in. pots, \$1.50 per 100. PANSY PLANTS, bud and bloom, \$1.00 per 100; \$3.00 per 1000; small size, 50c. per 100. GERANIUMS, Nutt, Fotherline, Buchner, Ricard, 4 in. pots, \$5.00 per 100. ASTERS, VERBENAS, PHLOX, TOMATOES, PEPPERS, 2 in. pots, \$1.70 per 100. CANNAS, 3 and 4 in. pots, \$4.00 and \$5.00 per 100.

CASH WITH ORDER.
ERNEST HARRIS, Delanson, N. Y.
Mention the Florists' Exchange when writing.

Report of a Critical Test of Hammond's Slug Shot



**for POTATO BUGS,
CURRANT and
CABBAGE WORMS,
Made in 1904**

James Lawrence.
J. Reynard Lawrence.

**Eden Trial Grounds
1896**

Specialties:
**SWEET PEAS and
POTATOES**

Dear Sir:—Have been delayed in reporting on Goods you sent me for trial by severe illness. SLUG SHOT was as good, and did the work it was advertised to do as well and effectively as compounds and mixtures costing double and triple the price asked for it. For potatoes it proved especially efficient. Your BORDEAUX PULP is all right, dissolves readily and minutely so it does not clog nozzles of finest sprayers. Your AMMONIATED COPPER SOLUTION saved my melon vines (musk). It was not a case of preventing blight, but of checking it after it had developed and to quite an extent. I shall be glad to use and commend your goods another season.

Yours truly,
(REV.) J. REYNARD LAWRENCE, North Middleboro, Mass.
Nov. 21, 1904.

**TWEMLOW'S
LIQUID PUTTY
and
Greenhouse White Paint**

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ASTERS Pot Crown

Giant Parity, Hohezoellern, Cream and dark blue, Sempie's white, pink and purple, 2 in. pots	\$1.00	\$3.00
Aster, from seed bed, by mail	.40	2.50
Purily, Sempie, 3 colors, Bohonzollern, 3 colors; Truffant, 3 colors; Victoria, 3 colors.		
Moonvine, 2 in.	2 50	
Cobea Scandens, 2 in.	2 50	
Dracena Indivisa, 3 and 4 in., 16 to 18 in.	\$4.00 and 6 00	
Asparagus Sprengerl, 2 in.	2 50	
Salvia, dwarf and tall, 2 in.	2 00	
Ivy Geraniums, mixed, 3 and 4 in.	\$3.00 and 5 00	
Cosmos, early dwarf and giant-flowering, 2 in.	1 00	
Zinnias, finest double, 2 in.	1 00	
Nicotiana glauca, 2 in.	75	
CASH with order, please.		

GEORGE J. HUGHES, Berlin, N. Y.

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200,000 Bedding Plants

First Class Stock that will please

30,000 Geraniums, Nutt, Ricard, Double Gen. Grant, Bichner and Polytine, strong 4 in., in bud and bloom, \$5.00 per 100.
Verbenas, in bud and bloom; Salvia Splendens and Bouffre; Petunia, fringed; Ageratum, blue; Lobelia, Alternantheras, and Culeus, red, yellow, and fancy mixed; all strong 2 to 2 1/2 in., \$1.50 per 100; Verbenas Petunias, and Salvias, strong, 3 in., \$2.50 per 100. Mme. Sallerol Geranium and Heliotrope, in bud and bloom, strong, 3 in., \$3.00 per 100; Begonia Vernon, strong, 2 in., \$2.00 per 100; Dracena Indivisa, strong, 5 in., \$1.50 per doz. Cannas, strong, 4 in., \$5.00; mixed, \$4.00 per 100. Vinca Variegata, strong 4 in., \$9.00 per 100. German Ivy and Mme. Sallerol Geraniums, 2 to 2 1/2 in., \$1.75 per 100. Salvia, 4 in., \$4.00 per 100. CASH.

WM. HERZOG, Morris Plains, N. J.
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Crassula Hybrida

Pink flowers, 2 in. pots, \$10.00 per 100.

CRASSULA COCCINEA

Scarlet flowers, 2 in. pots, \$15.00 per 100.

Both are novelties of exceptional merit in Easter flowering plants. The stock will make specimens for next season.

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FLUSHING, L. I., N. Y.**
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Splendens Giganteum Hybrids

Finest strain in the world, in five true colors, extra well-grown plants, from 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.

CYCLAMEN Giganteum Fimbriatum (the new fringed variety), from 2 1/2 in. pots, \$6.00 per 100; from 3 in. pots, \$3.00 per 100.

ASPARAGUS PLUMOSUS NANUS, well-grown stock from 2 1/2 in. pots, \$3.00; from 3 in. pots, \$5.00 per 100.

GERANIUMS Standard varieties, true to name, first-class grown stock from 4 in. pots, \$7.00 per 100; \$65.00 per 1000. Satisfaction Guaranteed

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EUREKA GREENHOUSES

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Cyclamen Plants

Seed of only selected flowers and well built stock. None better. Once transplanted, \$1.00 per 100; \$18.00 per 1000. Twice transplanted, \$1.00 per 100; \$25.00 per 1000.

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Are for sale by all the leading Seedsmen this season. Be sure to specify **COLUMBIA TUBS** when you order if you want the best plant tub made. Manufactured by

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 Beauties, Meteors, Brides and Bridesmaids are the leaders.
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
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Wholesale Prices of Cut Flowers, New York, May 12, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	10.00 to 20.00	In'r grades, all colors.....	.50 to .75
	extra	8.00 to 10.00	White.....	.75 to 1.00
	No. 1	6.00 to 8.00	Pink.....	.75 to 1.00
	No. 2	4.00 to 5.00	Red.....	.75 to 1.00
	No. 3	1.00 to 2.00	Yel. & Var..	.75 to 1.00
	Bride, 'Maid, fancy—spe'l	4.00 to 5.00	White.....	1.00 to 1.50
	extra	2.00 to 3.00	Pink.....	1.00 to 1.50
	No. 1	1.00 to 1.50	Red.....	1.00 to 1.50
	No. 2	.75 to 1.00	Yel. & Var.	1.00 to 1.50
	Golden Gate.....	1.00 to 6.00	(NOVELTIES.....	2.00 to 3.00
	Liberty.....	3.00 to 15.00	LILY OF THE VALLEY.....	1.00 to 3.00
	Meteor.....	1.00 to 5.00	MIONNETTE, ordinary.....	1.00 to 2.00
	Mme. Abel Chatenay.....	1.00 to 5.00	fancy.....	2.00 to 3.00
ADIANTUM	.....	.50 to .75	NARBOUSS.....	.25 to .30
CROWANUM	.....	1.00 to 1.50	Ordinary Yellow..	.30 to .50
ASPARGUS	.....	25.00 to 50.00	" Double Yellow..	.30 to .50
	Spargerl, bunches	10.00 to 25.00	PANEIRS, per dozen bunches...	.35 to .50
CALLAS	.....	3.00 to 4.00	ROMAN HYACINTHS.....	.50 to .75
CATTLEYA	.....	2.00 to 35.00	SMILAX.....	12.00 to 25.00
DAISIES	.....	.35 to .50	STOCKS, per bunch.....	.10 to .25
LILAC, per bunch15 to .35	SWEET PEAS.....	.35 to .50
LILIES	2.00 to 3.00	TULIPS.....	.50 to 1.00

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 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty, Meteor, Lily of the Valley, Carnations
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JOHN I. RAYNOR, 49 West 28th St., NEW YORK

We have a fine grade of everything in market at present.
 Send us a Trial Order and we will do the rest.

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 55 West 28th Street
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NEW YORK
 CUT FLOWERS AT WHOLESALE

PRES. CARNOT KAISERINS METEORS BEAUTIES Etc.

Boston.

Effects of Last Winter.
 The Winter effects on shrubs and all hardy plants have begun to show that damage to a much greater extent has been done than at first anticipated. Many trees that would seem to be in perfect health are entirely dead of such hardy species also as scarlet, red and willow oaks, hackberries, red buds, and others, which are plentiful in the native woodlands. It is hard to divine a reason, as the trees I have mostly noticed have been planted eight or ten years, and were well established. As before stated, all evergreens have suffered to a great extent. Among herbaceous plants there are many deaths, among such as delphiniums, aquilegias, etc. Some deciduous shrubs, which are now in full bloom, were perhaps never better than they are this year.

A year ago, the flower buds of the forsythias were destroyed, so that only an occasional yellow blossom was seen, but this year they are a glorious mass of bloom. The different prunuses, too, have been exceptionally fine this year, and the pyruses are just opening and will be fine in a few days. Lilacs have wintered in good shape, and will soon be a mass of bloom.

The number of blossoms on many of our native trees have been much more abundant than in recent years. This may be said of all the varieties of the maples; but then again, why should there be such a death rate among trees equally as hardy as the maple? Can it be that the seeds of those that have wintered badly came from a southern climate and have had the disease since first they started to grow?

News Gittings.
 D. S. Harrigan, for several years past in charge of MacMulkin's greenhouses, at Norfolk Downs, has left that position and will now carry on the business established by his father, the late Jeremiah Harrigan, at East Foxboro.

W. H. Elliott is thinking of locating his salesroom on Boylston street, and has almost decided on a suitable place.

James Rough, Jr., will continue the business established by his father, the late James Rough, as well as continuing manager of the Music Hall Flower Market. Mr. Rough expresses his thanks to his many friends in both flower markets and the trade generally for their many acts of kindness and sympathy shown during the recent illness and death of his father.

George Buckman, of Stoneham, is bringing in sweet peas of exceptional quality to the Music Hall market.

Henry M. Robinson & Co. are handling new crop southern ferns of fine quality, and have on hand a large stock for Decoration Day purposes.

On the moment of mailing, we hear that W. N. Craig was accidentally thrown from his carriage, on Wednesday, receiving injuries which will confine him to the house for several days. We hope nothing serious will result from this accident.

J. W. DUNCAN.

GRAND RAPIDS, MICH.—Carnation plants are all out in the field, and the weather is just right for them to take a hold.

Window boxes are 10c. per foot higher for filling than formerly. Small sizes of bedding plants in 3 and 2-inch pots are a little higher than in former years. It looks as if this might be a record-breaking season, and bedding stock become scarce, especially geraniums.

The weather continues threatening and unsettled. Business remains good.
 G. F. C.

DETROIT, MICH.—John Breitmeyer's Sons have donated to the park commission two large stone basins which formerly stood in front of their place of business. The urns will be placed on Belle Isle.

A. L. YOUNG & CO.

WHOLESALE FLORISTS
 54 West 28th Street, New York
 Receivers and Shippers of CUT FLOWERS.
 Consignments solicited. Prompt settlements
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GARDENIAS, SWEET PEAS, DAISIES
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SAMUEL S. PENNOCK { THE Wholesale Florist of Philadelphia } **FRESH WILD SMILAX** \$6.00 PER CASE

THE PHILADELPHIA CUT FLOWER CO., HIGH-GRADE CUT FLOWERS
1516 and 1518 Sansom St., PHILADELPHIA, PA.

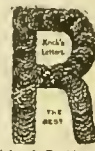
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FANCY CARNATIONS AND ROSES **PITTSBURG CUT FLOWER CO., Ltd.**
504 Liberty Ave., PITTSBURG, PA.

CALL ON **EUGENE BERNHEIMER** FOR PROMPT DELIVERY ON
Carnations, Roses and Spring Flowers 11 South 16th Street,
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Highest Awards Wherever Exhibited



These Letters and Designs are made of the best Immortelles, wired on wooden frames, having holes drilled in them to insert tooth-picks by which they are fastened in the design. Give them a trial. You will find these Letters to be superior to any in the market.

1 1/4 inch Letters and Figures.....per 100, \$2.50
2-inch Letters and Figures..... " 2.50
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Add 10c. per 100 on 2 and 2 1/2 in. Letters if by mail
W. C. KRICK, 1161-66 Brooklyn, N.Y.

HARDY CUT FERNS



Fancy or Dagger, guaranteed to be first quality and nice stock, \$1.00 per 100 for Dagger; \$1.25 for Fancy. Sphagnum Moss, nice quality, 50c. per bbl. Laurel Roping, well put together, only 3/4 cts. per yard. Bouquet Green, loose, 4 1/2 cts. per lb.; 4 1/2 cts. per yard, hand made and well put together. Cash with all orders. All orders by mail, dispatch or long distance telephone promptly attended to.

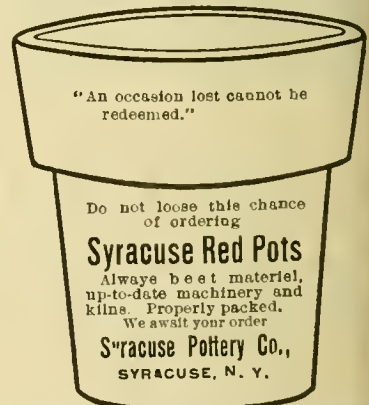
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The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

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Do not lose this chance of ordering
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Always best material, up-to-date machinery and kilns. Properly packed. We await your order
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Chilwell Nurseries, Lowdham, Notts
European Agents for THE AMERICAN CARNATION
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SOUTHERN SMILAX
Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.
GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 6000.
LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.
Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.
All Kinds of Florists' Supplies.
L. J. Kreshover, 112 West 27th Street, New York
Tel. 597 Madison Sq.

MICHIGAN CUT FLOWER EXCHANGE
WM. DILGER, Manager
FANCY FERNS, \$1.50 per 1000.
DAGGER FERNS, \$1.50 per 1000.
38-40 Miami Ave., Detroit, Mich.
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JAPANESE MOSS
Packed in paper cartons. "Moss and nothing out Moss"; no sticks or dirt. Less than half the price of German Moss.
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Foreign & Domestic Specialties,
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NEW CROP DAGGER FERNS
\$1.50 per 1000.
They are the finest and largest Ferns ever sold. FANCY FERNS, \$1.50 per 1000.
Bouquet Green \$7.00 per 100 lbs.
BOUQUET GREEN WREATHS and **LAUREL WREATHS**, all sizes and prices.
Laurel Festooning, extra fine and full, and made fresh daily from the woods. 4c., 5c., and 6c. per yard.
Send for same **Laurel Wreaths** for Memorial Day use.
Send us your orders for Memorial Day now and you will get the best to be had and at rock bottom prices. Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.



Tell us your wants; we will do the rest. Telephone and telegraph orders will receive immediate attention.

THE AMERICAN CARNATION
Price, \$3.50
FLORISTS' EXCHANGE, 2 DUANE ST., NEW YORK

H. M. ROBINSON & CO.

Hardy DAGGER FERNS \$1.50 and \$2.00 per 1000
BRONZE AND GREEN GALAX \$1.50 per 1000

Bouquet GREEN \$7.00 per 100 lbs.

Sphagnum Moss, Laurel Festooning and Leucothoe Sprays



Memorial Day



Florists' Supplies of all kinds, such as Milkweeds, Cape Flowers, Immortelles, Cycas Leaves, Ribbons, Cut Wire and Wire Designs, and all kinds of Letters

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8 & 11 Province Street, BOSTON, MASS.

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NEW CROP FANCY and DAGGER FERNS
READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.
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Special Quantity Prices on Application
E. A. BEAVEN, Evergreen, Alabama

St. Louis.

News Notes. President Juengel of the Florists' Club reports that he has a very busy season before him in planting, but he will not miss the club meeting this week.

The committee on flower show met at Otto Koenig's store last week to talk over exhibition matters and put the preliminary list in the hands of the printer. No suitable hall has as yet been found in which the show can be held. The date was set for the week of November 7. Weekly meetings will be held from now on until the hall question is settled.

We had another bad wind, rain and hail storm here on Thursday last which did considerable damage to young trees throughout the city, especially in the parks. The hail was not large enough to do any great hurt to glass, only a few broken panes being reported.

The Board of Public Improvements met last week and appropriated \$126,397.20 for use of the park department. Of this amount, \$11,097.20 is used by one office, the balance, \$115,300, being distributed among the 18 parks over which the city has jurisdiction. This is a very small sum for the department to make much show.

The Growers' Club will hold its regular monthly meeting on next Wednesday afternoon in Louisiana Hall. President Halsted of Belleville expects a large attendance.

Carl Beyer had a tough job last week, sitting as a juror during a very busy time at home.

J. O'Neil, representing Vaughan's Seed Store, Chicago, is without this week. He says he was glad to get away from home on account of the strike. He tells us trade is suffering greatly, both retail and wholesale.

Phil Hauswirth of Chicago, spent a few hours with friends here last week.

C. C. Sanders will start building a new residence as soon as the busy planting season is over.

Bowling.

The nine members, who showed up at the alley on Monday night, had a big time. Five games were rolled. Robert Meinhardt was high with 777; Charles Kuehn, second, 741; and Theo. Miller, third, 735. Beyer, Beneke, Ellis, F. Meinhardt, Gerlach and Lohrenz, followed in the order named.

ST. PATRICK.

FERGUS FALLS, MINN.—S. N. Mehlin lost 1,000 feet of glass by a hailstorm on May 2. He was insured in the F. H. A.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

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Samples free. For sale by dealers.

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C. C. Pollworth Co.

MILWAUKEE, WIS.

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For ROSES, CARNATIONS

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 1/2 in. pots in crate, \$4.88	120 7 in. pots in crate, \$4.20	120 7 in. pots in crate, \$4.20	120 7 in. pots in crate, \$4.20
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144 6 " " " 3.16	6 16 " " " 4.50	6 16 " " " 4.50	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

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 August Roller & Sons, Agts. 81 Barclay St., N. Y. City

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Washington, D. C.

News Items.
 On May 1 a banquet was given in remembrance of the battle of Manila Bay, it being the seventh anniversary. J. H. Small & Sons made a superb decoration for the occasion. One of the principal features was an exact representation of Admiral Dewey's flagship, the Olympia, in immortelles, which was greatly admired.

The members of the steam railroad have an exhibition this week. This has brought considerable trade, as they have been lavish in entertaining.

The display of bulbs in the public parks, which is about over, has been unusually fine this year. The 30,000 pansies which were put out last October passed through the Winter in good shape, and are now quite a feature. George H. Brown, the landscape gardener, has commenced putting out the bedding stock, and intends making a very elaborate display not only of carpet bedding, but of flowering plants in honor of the visitors to the S. A. F. convention. M. C.

SOUTH BEND, IND.—Benjamin Gingrich, president of the South Bend Floral Company, is rapidly falling and death is expected at any moment. Mr. Gingrich has been ailing for the past three years with a complication of diseases arising from heart trouble.

SADDLE RIVER, N. J.—John G. Esler was re-elected president of the Orvil Building and Loan Association at a recent annual meeting; and his partner, Andrew Esler, was re-elected treasurer.

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and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
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 Whatever the shape desired in a
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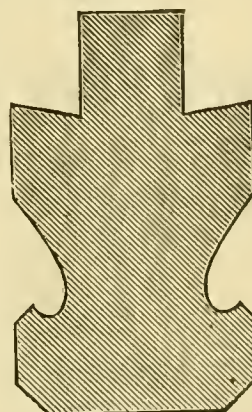
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OUR FACILITIES INCREASED OUR GRADES INVARIABLY THE BEST

Write for Catalogue and Estimate, when figuring on your new houses.
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GULF CYPRESS Greenhouse Material



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We furnish everything for Building

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Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.
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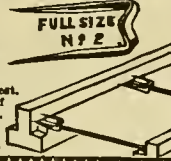
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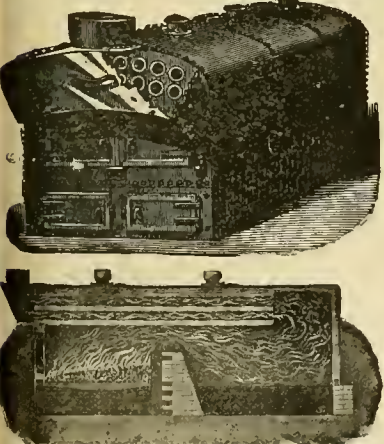
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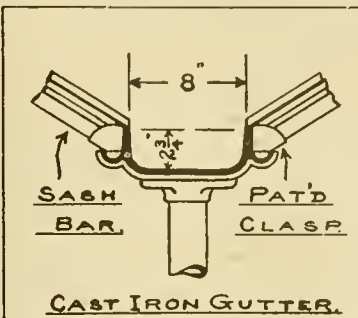
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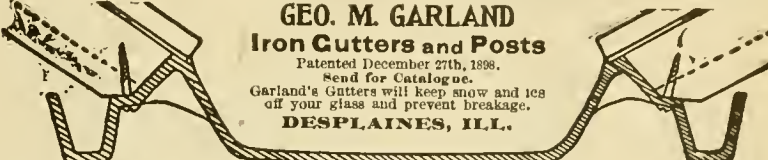
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Height, complete, 34 inches.
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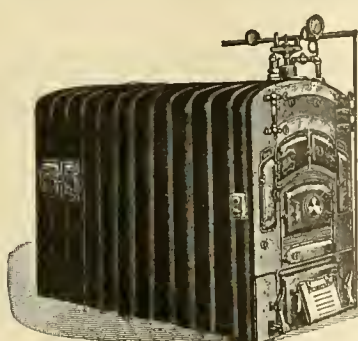
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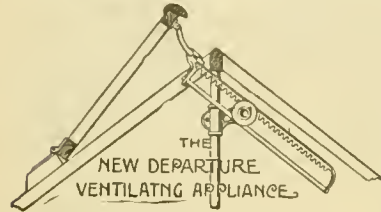
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 Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales,
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- SALVIA, SPLENDENS and FIRE BALL, 2 1/2 in. pots, 50c. per doz.; \$3.00 per 100. Plants from 2 1/2 in. pots, \$3.00 per 100.

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For Hot Water or Steam
 HOT WATER Radiation from 4,200 Square Feet and Up.
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Will reduce your coal bill. They did it for others last winter.
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 Full weight Wrought Iron Pipe, the kind that wears, 2 in., 10 cts. per foot.
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 CYPRESS SASH BARS Absolutely clear, sun dried; out to exact sizes.
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Our Gallery of Fine Specimens



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Plate 99

QUERCUS CONFERTA (PANNONICA)

The Hungarian Oak, generally listed in catalogues as *Quercus Pannonica*. In the vicinity of Philadelphia, Pa., this Oak grows splendidly; it is perfectly hardy, and the climate appears to be just to its liking. It has a spreading massive character of growth, which is not common to all Oaks, making it of broader outline than many of our own species when of the height of the one illustrated.

THE FLORISTS' EXCHANGE

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

G. E. Stone
106
March 1906
Hatch Bxmt Sta

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

Vol. XIX. No. 20

NEW YORK, MAY 20, 1905

One Dollar Per Year

Hardy Field-Grown Roses

Extra Strong Two-year-old Plants in Splendid Condition

Strong plants, which if planted at once will bloom freely this summer. We offer a list of extra choice varieties at \$2.00 per dozen; \$12.00 per 100, as follows: Margaret Dickson, Baroness de Rothschild, Ulrich Brunner, Magna Charta, Mrs. John Laing, Prince Camille de Rohan, Capt. Christy, Jules Margottin, Perles dea Blanches, White Moss, Rugosa Alba, Rugosa Rubra, etc., etc. Also

FRAU KARL DRUSCHKI This is a queen among white roses, of the very largest size, pure snowy white, long pointed buds with shell-shaped petals, opening large and full. A continuous and free bloomer. The finest hardy white rose in cultivation. \$5.00 per dozen; \$30.00 per 100.

CAPT. HAYWARD Extra choice. Bright carmine-crimson. Very large. \$2.50 per dozen; \$16.00 per 100.

SOLEIL D'OR Golden orange-yellow. \$2.50 per dozen.

MONTHLY AND HYBRID TEA ROSES Strong field-grown plants. \$2.50 per dozen; \$16.00 per 100, as follows: La France, Gruse an Tepiltz, Belle Siebrecht, Hermosa, Gloire de Dijon, etc.

New Dwarf Perpetual-flowering

CRIMSON, OR BABY RAMBLER (Mme. Norbert Levavasseur). Strong 6-inch pot grown plants. \$12.00 per dozen.

STANDARD, OR TREE ROSES 12 best named sorts; fine collection. \$5.00 per dozen; \$35.00 per 100.

AMPELOPSIS VEITCHII. Extra strong field-grown plants. \$12.00 per 100.

ARISTOLOCHIA SIPHO (Dutchman's Pipe). Strong field-grown plants. \$3.50 per dozen.

HYDRANGEA PANICULATA GRANDIFLORA. Strong field-grown plants, \$12.00 per 100.

CLEMATIS Jackmanni, Henryi, Duke of Edinburgh, Hybrida Sieboldi, etc. Strong two year-old field-grown plants. \$3.50 per dozen; \$25.00 per 100.

CLEMATIS Ville de Lyon. Fine large red-flowered clematis. \$9.00 per dozen.

AZALEA MOLLIS. Fine bushy plants, well budded. \$4.50 per dozen; \$30.00 per 100.

Also large stocks of **Colorado Blue Spruce, Reinsporas, Boxwood** in bush and Pyramidal form, **Hardy Phloxes**, etc., etc.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

COLLECTED ORCHIDS

Fresh Importation of **Cattleya Trianae**

Just received in splendid condition and offer them until sold at \$55.00 per case, original case of 40 to 50 plants.

FRENCH LILACS AND DEUTZIAS

Pot-Grown

We have a surplus of Lilac Madame Lemolne and Marie Legraye, and Deutzia Gracilis, just coming into flower, in fine condition for shipping and immediate use.

LILACS, \$50.00 per 100; \$6.50 per doz.; 75 cts. each.
DEUTZIAS, \$20.00 " \$2.50 " 25 cts. "

MUSHROOM SPAWN PURE CULTURE

Being the Eastern Distributing Agents for the American Manufacturers of Pure Culture Spawn, we can ship Fresh Spawn on short notice at the following prices: 15 cts. per lb.; \$1.25 per 10 lbs.; \$10.00 per 100 lbs.

We have also the best make of English Virgin Mushroom Spawn, fresh importation, 8c. per lb.; 75c. per 10 lbs.; \$6.00 per 100 lbs.; \$55.00 per 1000 lbs.



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PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

40,000 CUT ROSES For DECORATION DAY

American Beauty, Bride, Bridesmaid
Kaiserin, Liberty, Safrano, Ames

SPRENGERI AND PLUMOSUS

Large Bunches, 50c. Each

At Boston Flower Market

PARK ST. CHURCH, Stalls 3, 4 and 5, or direct

W. H. ELLIOTT, Brighton, Mass.

CARNATIONS

Last Call

500	Lieutenant Peary, from sand	-	-	100	\$12.00
500	" " from pots	-	-		12.00
300	The Belle, from pots	-	-		6.00
200	Mackinac, " "	-	-		5.00
300	Mrs. Patten " "	-	-		6.00
500	Harry Fenn, from sand	-	-		3.00
250	Cardinal, from pots	-	-		12.00

25 at 100 rate.

All first-class, well-rooted stock. Remember you can save 5 per cent. from the above prices by sending check with your order.

Cottage Gardens Company, Inc.

G. W. WARD, Manager Queens, Long Island, New York

Decoration Day Items



- BAMBOO CANES for tying up Chrysanthemums, 6 to 8 ft., 1000, \$6.00
- RAFFIA, Long Braided, Bright, - - - lb. 15c., 100, \$12.00
- RUBBER HOSE, Liberty Brand, 3/4 inch - - - foot, 10c.
- GLADIOLUS, mixed, good colors - - - - 1000, \$6.50
- STERILIZED SHEEP MANURE, ton lots - - - - \$20.00

WM. ELLIOTT & SONS, NEW YORK

Gladiolus Bulbs

MIXTURES		NAMED VARIETIES	
	Per 100	Per 100	1000
Groff's Hybrid Seedlings, mixed	\$2.00	\$1.00	\$10.00
Meadowvale, mixed	1.00	1.00	10.00
General, mixed	.75	7.00	
Lemaline's, mixed	2.00	15.00	
Lemaline's, extra fine mixed	2.50	20.00	
Childsall, mixed	2.00	18.00	
Pink and Rose, mixed	1.25	11.00	
Yellow and Orange, mixed	3.50	30.00	
Striped and Variegated, mixed	2.25	20.00	
White and Bright, mixed	1.40	12.00	
Scarlet and Red, mixed	1.25	10.00	
Augusta, white blue anthers	\$1.00	\$30.00	
Baron Staffe	1.60	14.00	
Branchleyensis	1.60	12.00	
Ceres	1.75	15.00	
Geo. Paul	1.50	15.00	
Gil Blas	1.50	15.00	
Jane Dienlaffoy	2.00	20.00	
May, 1st size	1.75	18.00	
Mme. Monneret	1.40	12.00	
Mrs. Beecher	2.50	22.00	
Princesse	3.00	30.00	
Shakespeare	5.00	45.00	
Senator Volland	2.50	25.00	

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK
 Branch Store, 404 East 34th Street, New York
 Mention the Florists' Exchange when writing.

Do It Now

Mail us your list of Bulbs, you will need for next Fall. Our prices are right.

HUBERT & CO.

N. Le Page, Rep. Mt. Vernon, N. Y.
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RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.

W. W. RAWSON & CO.
 Seedsmen,

12 Faneuil Hall Square, BOSTON, MASS.
 Mention the Florists' Exchange when writing.



FALL BULBS

NOW READY TO QUOTE PRICES

FREESIA, ROMAN HYACINTHS, PAPER WHITE NARCISSUS
 LILIAM HARRISII AND LONGIFLORUM, HYACINTHS,
 TULIPS, NARCISSUS.

BUY NOW and you will buy right

Send for our Import Bulb List; it will save you money.

VAUGHAN'S SEED STORE

84 & 86 Randolph St., Chicago.

14 Barclay St., New York.

Lilium Longiflorum Multiflorum

Original Japan stock, in fine healthy condition, ready for delivery July, 1905

5 x 7 size,	\$25.00	per 1000;	\$3.50	per 100
7 x 9 " "	65.00	" "	8.00	" "
9 x 11 " "	130.00	" "	15.00	" "

Orders will be accepted as long as stock to arrive, which is very limited, is unsold. Terms, Net Cash, 30 days. Write for Special Price on all other Bulbs, Roots, Etc.

F. W. O. SCHMITZ, Prince Bay, N. Y.

Importer and Exporter

REED & KELLER

122 West 25th St., New York

RUSTIC WORK

ALL KINDS

Tables, Chairs, Settees, Window Boxes, Tree Stumps,
 Stump Tubs, Bird Houses, Pedestals, Rustic Fence,
 Etc., Etc. Superior Workmanship.

Rustic Hanging Baskets

Price, each	Size.. 8	9	10	11	12	13	14
	\$0.50	\$0.65	\$0.80	\$0.90	\$1.10	\$1.25	\$1.50
" per doz.	5.50	6.75	8.75	9.75	11.35	13.00	17.00

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 NOVELTIES CONSTANTLY ON HAND



ROEMER'S SUPERB PANSIES

The finest strain of Pansies in the World
 Introducer and Grower of all the leading Novelties
 Highest Award, International Exhibition, Dusseldorf, 1904. Catalogue free on application.

FRED. ROEMER, Seed Grower
 QUEDLINBURG, GERMANY.

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BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices
 mailed only to those who
 plant for profit.

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BULBS

For Forcing
 Virginia-grown Narcissus and Daffodils

POAT BROS., Bulb Growers
 ETRICK, VA.

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Thorburn's Seeds

We are now booking orders for

- LILIAM HARRISII
- LILIAM LONGIFLORUM
- ROMAN HYACINTHS
- PAPER WHITE NARCISSUS, &c

Apply for prices, stating number wanted

CYCAS REVOLUTA, \$8.00 per 100 lbs.
 GOLD STORAGE VALLEY PIPS, in cases
 of 3,000, at \$10.00 per 1000.

J. M. THORBURN & CO.

36 Cortlandt St. New York
 Mention the Florists' Exchange when writing.

WARD'S HIGH GRADE

Bulbs & Plants

RALPH M. WARD & CO.
 12 W. Broadway, NEW YORK

Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.
 Catalogues free on application.

WEBER & DON, Seed Merchants
 and Growers,
 114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANTS
 SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
 342 West 14th St., New York.

Mention the Florists' Exchange when writing.

FISCHER'S GRAND PURITY

A magnificent, snowy, glistening white of very large size and great length and strength of stem. A dozen sprays make as fine a showing as a dozen white carnations and can be used wherever carnations are used for decorative purposes. A truss bearing from eight to eleven buds, of which six are frequently open at one time, make an immense flower. It is of great substance and bears shipping without bruising. Stems can be cut two feet long and are as rigid as sticks. It is very prolific in bloom, producing three to four rich shoots of eight buds each, besides the main flower. Bulbs no larger than dried wax beans of this grand Freesia make as large a flower as the large bulbs, only the stems are shorter. All growers should try some of this Queen of Freesia, for when "once grown always grown." Price for large bulbs, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. A discount on 5,000 and 10,000 lots.

R. FISCHER, Great Neck, L.I., N.Y.
 Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.
 Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
 Mention the Florists' Exchange when writing.

NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.
 Mention the Florists' Exchange when writing.

Clearance Sale Gladiolus Bulbs

Unsurpassed Quality

Johnson & Stokes' Special Mixture The best value on the market. 80c. per 100; \$6.00 per 1000
Loracroft Prize Mixture—FIRST SIZE. Famous for its splendid quality. \$1.25 per 100; \$10.00 per 1000
Loracroft Prize Mixture—SECOND SIZE. 90c. per 100; \$7.50 per 1000

100	1000	White and Light.....	100	1000
off's New Hybrids.....	\$1.75 \$15.00	Lemoine's Hybrids, mixed.....	1.25	11.00
12 Shades.....	1.25 10.00	American Hybrids, choice mixed.....	1.00	9.00
anchleyensis, scarlet.....	1.25 10.00			
Striped and Variegated.....	1.90 17.00			

CINERARIA AND CHINESE PRIMROSE ENGLAND'S PRIZE STRAINS.

Cineraria, English Prize Mixed..... half trade packet, 50c.; trade pkt., \$1.00
Primula, English Prize Fringed, Mixed (Chinese Primrose), per 100 seeds, 25c.; 500 seeds, \$1.00; 1000 seeds, \$1.75.

The above strains are absolutely the finest obtainable.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

WE AIM

to supply only

SUPERIOR STOCK

When making up your catalogue, write us for prices on Summer flowering bulbs.

JOHN LEWIS CHILDS, Floral Park, N. Y.

Mention the Florists' Exchange when writing.

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For the Trade

A full line in Manila, Fibre and laid papers, white, amber and colored. Printing in large or small quantities, one or more colors, with cultural directions and with or without cuts. Samples and estimates on application.

The Brown Bag Filling Machine Co.

Bag Dept.

PITTSBURG, MASS.

Mention the Florists' Exchange when writing.

CINERARIA GOLD MEDAL MIXTURE

Tall or Dwarf, 1/2 trade packet, 60c.; trade packet, \$1.00.

PRIMULA Fringed Chinese

Alba magnifica, Chiswick Red, Blue, Kermesina splendens, striped or mixed, 1/2 trade packet, 60c.; trade packet, \$1.00.

ALL OTHER SEASONABLE SEEDS.

Get us figure on your wants in

FALL BULBS

HENRY PHILIPPS SEED CO. TOLEDO, OHIO

Mention the Florists' Exchange when writing.

ASPARAGUS

100	1000	5000
Plumous nanus, fresh.....	\$0.30	\$2.00 \$8.75
Sprenger.....	.15	1.00 4.00
KENTIA.....	.50	4.00 15.00
Cocos Weddeliana.....	Just	.75 5.00 20.00
ARECA LUTESCENS received.....	.50	4.00 17.50
Primula sinensis limb., separate colors.....	.20	1.75
Primula obovata, white or rose, pkt., 25c.		
Primula, Baby, Forbesi, pkt., 25c.		
Cineraria hybrida max. grandiflora, pkt., 25c.; 5 pkts., \$1.00.		
Fernspores, best mixed, 25c.; 5 pkts., \$1.00.		
Fernspores in any of florists' sorts, separate. Send for list. Address		

H. H. BERGER & CO.

47 Barclay Street, New York

Mention the Florists' Exchange when writing.

XXX SEEDS

PRIMROSE IMPROVED CHINESE
Finest grown, large-flowering, fringed, single and double, 15 varieties, mixed, 500 seeds \$1.00; half pkt., 50c. Have the varietal separate also.

CINERARIA Finest large-flowering dwarf, in best mixture, 1000 seeds, 60c.

PRIMULA OBOVATA. New large-flowering fringed, mixed, 1000 seeds, 50c.

PANSY GIANT. The finest large-flowering varieties, critically selected, 5,000 seeds, \$1.00; half pkt., 50c. 500 seeds of "Giant Mme. Perrett," added to every \$1.00 pkt. of Giant Pansy Seed. CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa. The Home of Primroses

Mention the Florists' Exchange when writing.

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That print EASILY. That's the kind we make—have been since '73.

JAS. M. BRYANT, Horticultural Engraving and Printing 706 Chestnut Street, PHILADELPHIA, PA.

LAWN GRASS SEED in Bulk and Packages

Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

THE ALBERT DICKINSON CO.

MINNEAPOLIS

CHICAGO

Mention the Florists' Exchange when writing.

GLADIOLUS PLANT NOW

Strictly 1st size bulbs, sound and unsprouted.

100	1000	100	1000
Red Shades.....	\$1 25 \$10 00	Groff's Hybrids.....	\$1 50 \$11 00
Pink Shades.....	1 00 9 00	All Colors, Mixed.....	75 6 50
White and Light.....	1 50 12 00	Extra Fine, ".....	1 25 10 00
Striped and Variegated.....	2 00 18 00	Childsil, ".....	1 75 15 00

25 at 100 rate; 250 at 1000 rate.

VAUGHAN'S SEED STORE

84 & 86 Randolph St., Chicago

14 Barclay St., New York

Mention the Florists' Exchange when writing.

PRIVET Half Price

12-15 inches.....\$7.00 per 1000 | 2-3 ft. \$15.00 per 1000
18-24 ".....12.00 " | 2-3 ft., 3-year.....20.00 "

The above offer is good only when this advertisement is mentioned.

IVY Field-grown and pot plants, \$5.00 and \$8.00 per 100.

300,000 ROSES 2 and 4 in. pot plants. Prices and varieties on application.

CANNAS, in variety.....	Per 100 \$6.00	CALADIUMS, 4 in. pots.....	Per 100 \$10.00
COLEUS.....	2.50	DORMANT ROSES.....	8.00
SALVIAS.....	2.75		

THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

Mention the Florists' Exchange when writing.

Florists' Bulbs

Best Grade Only

IMPORT ORDERS NOW BOOKED

Write for Prices

W. C. BECKERT Allegheny, Pa.

Mention the Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

SHERMAN, TEX.—I. A. Heath is erecting a two-story building, 24x60 feet, to be used as a wholesale seed house. All classes of farm and garden seeds are to be handled.

COLUMBUS, O.—The Livingston Seed Company is and has been doing a fine retail trade in vegetable and flower seeds, plants and cut flowers. The elder Livingston was famous for his improved varieties of the tomato, a branch of business the house continues to follow, with marked success.

INDIANAPOLIS, IND.—J. A. Everitt, seedsman, reports a good trade along all lines, more particularly retail and truckers. Mr. Everitt is well known as the advocate of the "third power," which means bringing the farmers to the front, so far as controlling their business themselves, rather than for the speculator to control them, which is the proper thing to do. But will they do it?

BLOOMINGTON, ILL.—Nearly every city is noted for some speciality in the seed or plant trades. This city is no exception, and the speciality is corn for seed purposes. The Funk Brothers have made corn a hobby, and they ride it well, having 6,000 acres under cultivation exclusively with corn. This hobby consists in selection and for various purposes highly-bred chemical strains, for fattening and for growing live stock. Their chemical laboratory is on a scale that would seem fitted for the beet sugar industry. They report a large and constantly increasing business, which has been established for 81 years.

CHICAGO.—The strike has not struck the seed trade here, for all hands are wearing a most satisfied look, and are seemingly content. W. W. Barnard & Co. are still busy, and note an increasing business along all lines. No large stocks of any kind are held over.

The Goodwin & Harris Company, who do an exclusively jobbing trade, are carrying over but a limited quantity of any variety other than sweet corn; and the trade in general are not strangers to a surplus.

The Leonard Seed Company are more than pleased with their retail trade, but report less business along some wholesale lines.

Peter Hollenbach, who does an almost exclusively family trade in vegetable and flower seeds, plants and bulbs, reports a fast increasing business. This house is largely in the onion set trade, and is numbered with the few that has unloaded at a profit.

Mitchell's Prize Seeds

These strains of CINERARIAS AND PRIMULAS are the finest that can be procured from the best European and American specialists.

CINERARIA GRANDIFLORA

Prize Dwarf.....	1/2 Tr. Pkt. Tr. Pkt.	\$0.00 \$1.00
" Medium Tall.....		.80 1.00
James Giant strain.....		.60 1.00

PRIMULA SINENSIS

Alba Magnifica, White.....	.00	1.0
Holborn, Blue.....	.60	1.0
Kermesina Splendens.....	.60	1.0
Royal Morn, Pink.....	.60	1.0
Mitchell's Prize, Mixed.....	.60	1.0

For a complete list of Seasonable Seeds consult our Wholesale Illustrated List, mailed free to all Florists. Write for a copy.

HENRY F. MICHELL CO.

Seed Growers and Importers 1018 Market St., Philadelphia, Pa.

CANNAS Started, strong plants

Allemania, Anetria, Italia, P. Marquant, Robusta, etc., \$3 per 100. Dahlia, Strong Bulbs, Best Cut Flowers named, \$3.50 per 100. Shellroad Greenhouses, Grange P. O. Balto, Md. Mention the Florists' Exchange when writing.

LA CROSSE, WIS.—John Thorpe, the veteran landscape gardener and plantsman, is doing some very elaborate work here on private grounds as well as laying out and planting a public park.

The John A. Salzer Seed Co., report a good trade, not as heavy a mail trade as in former years. To look at their shipments, particularly in seed corn and other grains, a stranger could not imagine so extensive a business, unless they were jobbers, which this firm lays no claim to, being simply retailers.

BELLINGHAM, WASH.—A correspondent of the Herald of this place, in a recent illustrated article describing the bulb farms of Whatcom County, makes the statement that bulbs grown in that locality are shipped to Holland, and from there sold as "Holland bulbs," adding, "perhaps many of them are re-imported to the United States, and end their days in the country where they had their birth." There are at present three bulb farms of importance in this county. These belong to Smith Bros., near Bellingham; George Gibbs, at Clearbrook, and Goode Bros., whose farm is near Ferndale. The area under cultivation is as yet limited, but the possibilities of the work are just beginning to be realized. The founder of the industry is George Gibbs. A resident of Orcas Island for many years, Mr. Gibbs finally moved to a place near Clearbrook, and saw the possibilities of cultivating Holland bulbs.

SAMPLES OF SEEDS FOR DEPARTMENT OF AGRICULTURE.

The following circular was issued by the Treasury Department, May 9, 1905, to officers of the customs: "At the instance of the Secretary of Agriculture, it is hereby directed that, commencing July 1, 1905, and continuing for one year, 2-ounce samples of all importations of 100 pounds or more of grass, clover, and forage-plant seeds be prepared at the earliest practicable date after entry, and forwarded to the Seed Laboratory, Department of Agriculture, Washington, D. C., labeled with names and addresses of consignors and consignees, name of seed given in the invoice, and quantity of the consignment."

DWARF BOX

3 to 5 in., \$25.00 per 1000; 2 to 4 inches, \$20.00 per 1000.

Specimen Evergreens In fine assortment. Call and see them.

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**

RHODODENDRON MAXIMUM

and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand. See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now. **BAY STATE NURSERIES, North Abington, Mass**

CABBAGE TESTS IN NORTH CAROLINA.—H. Hume, State Horticulturist, has returned from New Bern, where he has a test farm, on which are 279 varieties of cabbages, says a local newspaper. He has discovered that several lots of seed that he used were extremely impure, showing a large mixture of varieties, and a great many were untrue to name. W. W. Tracy, of the United States Department of Agriculture, examined the plants with Mr. Hume, and he too said that certain seed growers, whose names were withheld but may be disclosed later, had disposed by sale of as many as 14 varieties of seed in one bag. Unless this practice of fraud is discontinued it will result in serious trouble for the guilty dealers and growers.

The results of the experiments on this farm have determined that for Eastern North Carolina the European and Puget Sound cabbage seeds are inferior to the Long Island grown seed, as they are more susceptible to injury from cold, resulting in either complete destruction of the plant or stunting of the growth so as to cause the cabbages to form seed stalks instead of heads. This one point, said Mr. Hume, will justify all the expense connected with the experiments. The Early Jersey and Charlestown Wakefield have given most satisfaction, although in some cases the seedsmen appear to have sold both varieties out of the same stock.

LONG ISLAND SEED CROPS.—The weather thus far has been most favorable for the seed crops, with the exception of spinach, which requires what we term "growing weather" early in the season, and this we did not have. The result will be plants too small when the hot weather comes on, which is now due. The plants will come into seed when not more than half grown, and give a small yield, and of inferior quality, as all stunted plants must do.

Cabbage started slowly because of the dry weather in April, but the present cool temperature, with plenty of moisture is forcing the plants along at a rapid rate, and a strong and healthy look—a surprise to every one. The Wakefield stocks are mostly fine, and many of the later sorts never looked better. The Volga, which is not a heavy seeder, gives a fair promise, and its quick growing habit is shown in the seed crop being first to come into flower.

Rutabagas are very fine, and a good yield is promised. Other sorts look equally well.

The Scotch kale is fairly good and gives promise of an average crop. However, this is a crop that pays no respect to promise, it being likely to disappoint at the last moment, and we

can never tell what to expect until after harvest. Siberian kale is a more sure seeder, and the outlook is all that could be desired.

Brussels sprouts will be decidedly short, and prices will be proportionate. The excessive cold Winter was more than the plants could endure.

European Notes.

The injury to growing crops of rutabagas, mentioned in last week's notes, has been increased during the present week to an extent that is quite alarming. This is partly due to the inclement weather which still prevails, but in a greater degree to a virulent outbreak of canker or stem rot.

To all outward appearances the plants are quite healthy, but heavy gales, such as have swept Northern Europe during the past week, snap them off close to the ground, and the disease is at once apparent. Nothing can be done to save them from destruction, and already the losses on such varieties as American Purple Top, Monarch or Elephant, and Universal are very great. The coarser varieties will doubtless be affected in their turn, but as there are some heavy stocks of these on hand, the consequences are not likely to be so serious. At the same time, the rapid rise in the prices of the first-named varieties, which has already taken place, is bound to affect the others later on.

Such cabbages as are left standing are making good progress; nearly every plant is running to seed, and the outlook to-day is very promising. The limited acreage will prevent a great surplus.

Mangel seed continues to be in great demand, and complete clearance of stocks will easily be effected. The plants for next harvest are backward at present, owing to the cold, but this does not cause us any great anxiety.

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E. W. Kirkpatrick, McKinney, Tex., president; C. L. Vatrone, Des Moines, Ia., vice-president; George C. Easter, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

CHICAGO.—Peterson Nursery have removed their office to 1301 Stock Exchange Building.

The Kansas State Horticultural Society will hold its twenty-first semi-annual meeting and fruit display at Wichita June 7 to 9, 1905. An interesting and varied program has been prepared.

THE MISSOURI STATE HORTICULTURAL SOCIETY will hold its semi-annual meeting at Versailles June 13 to 15. J. C. Whitten, Columbia, is president, and L. A. Goodman, Kansas City, secretary.

H. J. CORFIELD, superintendent of Cranbrook Nurseries, Birmingham, Mich., is projecting plans for carrying out the landscape work on an estate 300 acres in extent near Detroit, which promises to be the most private estate in Michigan; 30,000 trees and shrubs and 3,000 evergreens have been planted this spring for present and future effect.

TRADE WITH NON-CONTIGUOUS POSSESSIONS

The statistician of the Bureau of Statistics, Division of Markets, Department of Agriculture, has prepared a bulletin showing the trade of the United States with non-contiguous possessions from 1901-1903. So far as concerns the nursery and seed interests the following information is given:

Total nursery stock exported to Alaska for the year ending 1903, \$270; clover and other seeds, \$1,430. To Hawaii—Nursery stock, \$1,693; seeds, \$4,922, against \$4,544 in 1900. To Porto Rico—Nursery stock, \$1,318, against \$3,677 in 1902 and \$5,246 in 1901; seeds, \$2,313, against \$653 in 1902. To the Philippine Islands, \$24, against \$147 in 1902; seeds, \$58, against \$725 in 1902 and \$372 in 1901. In 1903 \$9 worth of seeds were exported to Guam.

From Alaska were imported in 1903 seeds to the value of \$538. From Hawaii, seeds valued at \$74 and nursery stock at \$104. From Porto Rico no seeds were received in 1903, as against \$82 worth in 1902 and \$44 in 1901. From the Philippine Islands—Nursery stock plants, trees, shrubs, vines, etc., to the value of \$645 were received in 1903; none in 1902 and \$216 worth in 1901.

OBJECTS TO FREE TREES.—President J. C. Vaughan, of the S. A. F. O. H., who is sojourning in California, has written a strong protest to the Pasadena (Cal.) Star against the proposition of the civic committee to "raise trees at the expense of the city to be furnished to the people as their best interests may appear." Mr. Vaughan says, among other things:

"The inference is, that these are to be supplied free or at cost. While Park Commissioners may rightfully grow their own trees and plants for use on and in public grounds and parks, the paternal proposition to supply such to private individuals free or at cost is not only unfair to those taxpayers who are not land owners, but is also manifestly unjust to nurserymen, gardeners and florists in this community who not only have spent half their lives in acquiring a thorough knowledge of their business but have invested their capital in their special merchandise and in lands upon which to grow it. Doubtless their advice and aid for the last twenty-five years have done as much for beautifying Pasadena and making it what it is as have other professional or business men in their way. Why, then, single out this class of merchandise alone for free distribution? Why not appoint a public physician, lawyer, painter or a free water service for growing trees and plants. Because these horticulturists deal in merchandise which brings about beautiful results is no reason, in itself, why the city should enter into competition with them to the extent of giving away their wares."

TO GROW PEONIES.—The Baltimore Herald of May 9 contains an item to the effect that a group of promoters has purchased property on Gwynn's Falls for the purpose of raising peonies on a large scale for the supply of Eastern and Middle Western markets.

The company will be known as the Glyndon Gardens Company. It will issue \$20,000 of preferred stock. This stock will have a guaranteed interest of 8 per cent. for the first two years, 9 per cent. for the following two years and 10 per cent. after this. Theodore F. Wilcox will be president and general manager of the company. John J. Carey, secretary to the general manager of the Western Maryland Railroad, will be secretary-treasurer. In addition to the officers, the board of directors will be composed of Leonidas H. Nice, cashier of the United States Sub-Treasury; Harry M. Mason, cashier of the Commercial and Farmers' National Bank, and William Keyser, commission merchant. There are now about 6,000 roots in the ground, and some of the flowers are in bloom. About three hundred varieties are represented. The beds will be extended from year to year. The place is in charge of J. A. Eckman. The blooms, as well as the roots, will be put on the market.

The article continues:

"Experience has long dominated this industry, but experience has become a commodity which can be bought, and those who purchase it are relieved of the necessity of themselves acquiring it in practical ways. The importance of this venture lies, not so much in the attempt which it represents to bring to greater perfection and make popular the old-fashioned garden flower, but the

opening up of a novel avenue of investment. If capital can find satisfactory investment in the wholesale production of one floral specialty, there is no reason in the nature of the case why some other flower born to 'blush unseen' by the fashionable populace of great cities should not be brought out of obscurity and given a position among the floral favorites. The new enterprise possesses sufficient elements of interest to fix upon it the eyes of practical florists, as well as to attract the attention of persons alert for fresh forms of investment."

Pyrus Coronaria.

A much admired small tree, native of this country, is the sweet-scented crab, *Pyrus coronaria*. Because of the delightful fragrance of its flowers it is a small tree every one desires to have in their collections. The flowers appear at the same time as those of the common apple do, in May. Wherever it may be when in bloom, its presence is often detected before it is seen, so delightful is the perfume. We do not remember having seen it in the immediate vicinity of Philadelphia in its wild state, but it is native from the Middle to the Western States, and extends south along the mountains. In Yancey and Haywood counties, North Carolina, it was very abundant at one time, and may be still. In height, fifteen to twenty feet would be a fair average.

The blossoms of this crab are of a light pink, hardly rose-colored, as many dictionaries say they

This is a quite small growing tree, apparently, having shining green leaves and the fluffy, greenish white clusters of flowers that so embellish the ornus. All the plants of it observed so far are of small size. They have flowered some weeks in advance of the old kind, and this character seems natural to it.

Hardiness of *Skimmia Japonica*.

Skimmia japonica, which our florists have been importing of late as a plant for the Christmas time buyers, is entirely hardy in the vicinity of Philadelphia, if living through two or three hard Winters is a sufficient test. As it comes from Japan, no doubt it would succeed much further north of this city, as not a leaf has been hurt on the plants here. It is a slow-growing shrub, and at no time makes a large bush, so that its place will be among the dwarf collections of broad-leaved evergreens.

It is its clusters of beautiful red berries that make it such a desirable pot shrub for Christmas. The berries are lasting, too, for the plants used at Christmas will still be in fair condition at Easter when kept in a warm room through the Winter.

Planted near a dwelling, where its bright red berries can be often seen, it is an interesting shrub all Winter long. It propagates from layers, or from seeds. Those who have plants with berries on them should secure the berries as they commence to decay, and sow them early in Spring in a greenhouse. If in good condition they grow in a short time.



PYRUS CORONARIA

are. We have never seen them of a color deep enough to be termed rose-colored. Besides the agreeable perfume of the flowers already mentioned, this odor belongs to the fruit as well, to some extent. There is to the fruit a clammy feeling when ripe, much as is experienced when handling other apples which have "sweated." The fruit is hard, slightly yellow when quite ripe, and is valued for preserving.

There is a variety—by some considered a species—of this crab growing in the West, called *P. ioensis*, and this is the variety which, it is claimed, produced the Bechtel's double-flowered crab. The foliage is quite distinct from that of the common flowering crab, and the blossoms have a much deeper color.

These typical trees of our woods are in much demand the world over, wherever ornamental trees are valued. There is a corner in Fairmount Park, Philadelphia, containing a collection of *crataegus*, *pyrus*, and other bushes and trees of a rosaceous character, and it was there where our photograph of the sweet-scented crab was obtained. The tree was loaded with its flowers; and with the many hawthorns, which were blooming at the same time, made the locality a much-sought one.

This crab can be raised by grafting it on the common apple stock, in which way it succeeds very well, or from seeds, which grow readily cleared from the apples and preserved in slightly damp soil through the Winter, in a cool place.

Our photograph represents a specimen in shrub shape. It is optional whether to start a young tree in this form or as a small tree with a single stem.

A New Flowering Ash.

The flowering ash known to all of us—the *Fraxinus ornus*, also as *Ornus europæus*, is an esteemed flowering tree, the blossoms appearing in great clusters in the days of early June. What may be called a new flowering ash is the Chinese ash (*Fraxinus Bungei*).

Uses of the Tamarisk.

As a seashore shrub the tamarisk is well known. Its value lies not only in its ability to withstand salt air and spray, but in the readiness with which it undergoes a good pruning. Cut it as you will, it does not object, but sprouts afresh, and really seems to enjoy the pruning. This is why it is so often used as a boundary to grounds near the seashore, where, when pruned as it should be, it forms a pretty, graceful boundary line, which no other shrub could produce as well. Then, if one wants a small tree, and not a shrub, the tamarisk is accommodating. Cut it down, selecting a strong plant for the purpose. Several shoots will, perhaps, appear, which may be allowed to grow for a while, but should all be removed but the straightest and strongest. Remove the others gradually, not all at once. The straight, central one left will make a tree. Watch it, that it makes an ascending growth, and the tree shape will follow in time. Nice ones, ten to twenty feet high, are made in this way.

There are both Spring and Fall flowering varieties of tamarisk, all bearing light pink flowers.

Cork Fir (*Abies Arizona*).

A few years ago the Pinehurst Nurseries, North Carolina, introduced the silver cork fir (*Abies arizonae*), and to test its hardiness one was sent to me. The little specimen has now passed through its third Winter, and it is in no way injured by the Winter or any other source; nor has it been at any time. On account of its silvery, corky bark, and its pretty appearance generally, it is sure to be in demand, but where the supply will come from is a question to be answered.

The corky character of the bark is an exceedingly interesting feature. Just how soon it commences to form I do not know, but it is probable that it does not

show for a few years, as is the case with other corky trees. On a branch which was three inches in diameter, a section of which I have, there is a nice circle of silvery, corky bark. It is probable that in its native place it is a slow grower, as the branch spoken of has about twenty rings of growth, though, as stated, but three inches in diameter. In an ordinary place on our lawns, no doubt, its progress would be much faster than it was on the mountains of Arizona.

Sow Maple, Elm and Birch Seed.

There are two maples, the red and the silver, and two elms, the americana and fulva, as well as one birch, the rubra, which ripen their seeds in May, differing in this respect from other species of the same genus, which do not ripen until Fall. This seems curious behavior, and it is unusual, as usually the species of a certain kind of tree all ripen at one time. But what is interesting to the nurserymen is that if these seeds are sown in May, or very soon after gathering, they grow at once and make nice-sized seedlings by Autumn. Those who know this and obtain and sow the seeds as soon as they can be procured in Spring gain a year in their seedlings over those who do not know of this mode of sowing. In fact, unless kept very carefully, the seeds will not grow at all, if held until Fall before they are sown.

It is likely that other early ripening seeds, such as those of the *Rhus aromatica*, *Dirca palustris*, *Daphne mezereum*, *Sambucus pubens* and the mulberries, would do better sown as soon as ripe than when kept and sown in the Fall.

Pruning and Ramming Transplanted Stock.

When extensive plantings are undertaken, it is almost impossible to have every tree or shrub set out properly pruned and firmed, and it is well worth while to have a man detailed to go over a block of freshly planted stock to attend to these two things. The first thing should be the firming of the soil, and this is done with a rammer. The soil is pounded down around the specimen until it is firm, when it may be considered the soil is in contact with the roots. In light, sandy soil there is no difficulty in getting the soil compacted; in fact, many advocate the use of sand for filling in about the roots of trees, knowing that it almost ensures their well doing. The ramming of the soil should not be done in wet weather, but when the soil is dryish, for if rammed when wet the ground is apt to bake in hot weather.

To be pruned when transplanted is something almost every tree needs, and all can stand. Even those with good roots, which would grow without pruning, are none the worse for it, the strong growth pruning promotes well making up for what is lost by it. Therefore, a pretty close pruning should be given, keeping in view a good shape at the same time.

Evergreens need care in pruning, for the reason that they will not break satisfactorily from shoots from which all live foliage has been cut away. In the case of some pines and other evergreens, if every bit of foliage is cut away there will be fresh shoots from old wood, but when some branches are permitted to carry foliage and others are not, the latter ones will not break afresh, or but feebly.

Root Pruning Large Trees.

Now that sales are over and trees are in leaf, it is an excellent time to root prune trees that will be benefited by the process. There is no tree but that is made the better for transplanting purposes by being root pruned; but where they will grow very well when transplanted without the pruning, it can be omitted. When one sees the number of oaks, hickories and other trees of large size that die every year when transplanted, and which would not have died had they been well root pruned in advance, it is a strong point in favor of pruning. There is not a better time to root prune trees than early Spring—just after leaves have formed. The sap that was stored in the roots has been utilized in forming the leaves, and there is then no robbery of the foliage, as there would be were the roots cut before the clothing of the tree in leaves. After leaves are formed it is the other way about; the leaves are then perfecting sap and supplying some of it to the roots; therefore cut the roots then, in order that those remaining may reap the benefit of it. Root prune all trees of large size that your experience tells you may be difficult to get to live without it. Dig around them as you would to transplant them, perhaps a little nearer the body of the tree, and cut off all roots met with, making a clean cut. Fill in with the old soil, if good; with new if it will be of better quality. By the following Spring the trees may be removed with more safety than before, and for a year or two afterward they are much safer to transplant than they were.

The root pruning of large trees brings money to the nurseryman's pocket and peace of mind to the customer.

JOSEPH MEEHAN.

From the OPEN COURT PUBLISHING COMPANY, of Chicago, we have received an excellent portrait of Hugo de Vries, professor of botany in the University of Amsterdam, whose recently published work, "Species and Varieties; Their Origin by Mutation," has been so well received by scientists and others interested in the subject of evolution in plants.

FRUIT UNDER GLASS.

Peaches and Nectarines.

Peaches and nectarines that are coloring up in the early house should have a drier atmosphere. Give them all the air possible when the temperature goes above 75 degrees. Both top and bottom ventilation would be beneficial. Expose the fruit to the sun. The old method of training peaches up to the glass is more difficult to carry out than when they are planted crosswise of the house. The latter plan, in my opinion, is much to be preferred. The trees are easier handled, the fruit receiving the full benefit of the light on both sides; and it certainly gives the house a more attractive appearance. A great deal depends, as regards the flavor of our fruit, on the treatment the trees get, say, from the time the fruits start to color. Usually, if the tree receives a good watering just as the color shows, this should carry them till the fruit is ready to gather. Keep the water off the foliage, while the fruit is ripening.

What a grand sight a nectarine tree provides when the fruit is colored just ready for gathering! Take a tree of Early Rivers, for instance, with fruit as large as peaches, one of the grandest nectarines in existence. Fortunately, this tree is robust and vigorous. While both peaches and nectarines are interesting, grown under glass, with me the nectarine has the preference.

When the crop is gathered, it is well to cut out any useless wood; this allows more room for the young wood to develop. Give the house the same care, after the fruit is off, as regards watering, spraying, etc., except, of course, that no attention is needed as to airing. The ventilators, both top and bottom, should be kept open day and night. Trees that receive careful attention all through the season are in condition to carry a full crop of fruit every year. If the trees have made enough young growth by the time the fruit is gathered (which they should have done) any growth they make after that should be cut off, as it will be naturally soft. If the demand only calls for early fruit it is, comparatively easy to get that crop in and done with. On the other hand, where the demand is for fruit every day, say to the first of October, good judgment must be used. However, when one is acquainted with the different varieties, and space is at command, the early house can be planted so that no two trees will come in together.

The Second House.

As I have stated before, trees grown under glass require quite some feeding, especially when confined to an inside border. The fruit in this house should be now taking on the second swelling, and this is the time the trees will stand liberal feeding. A good soaking of cow manure water will be found beneficial. Never allow them to suffer for moisture at this stage. Moisture and feeding will help the size of the fruit considerably. Keep the young wood tied in. I am aware that often more young wood is tied in than is necessary for next season's crop. It is a great mistake to crowd; but the trouble is, in disbudding we are afraid we will not have enough, with the result oftentimes that we have too much. Whoever has peaches and nectarines under their charge, and find the wood too thickly crowded, will understand it pays to use the knife. One thing is certain, for the best results thoroughly ripened wood is one of the secrets of success.

San Jose Scale.

Quite a few articles have appeared on this pest at different times, and not without cause, I presume. Strange it is, how this scale gets spread around. Birds, or bees, or something of the sort, must carry it. Our peach trees were perfectly clean when we first started here; in fact, all the stock was imported. Still, the San Jose scale got here. But I am satisfied, if a tree is taken in hand as soon as the scale is first noticed, there is no difficulty in keeping the pest in check. On the other hand, if badly infested, better chop down the tree and start young ones. I noticed scale here on our trees two seasons ago. They were sprayed the following Winter with the lime, sulphur and salt formula. Last Summer I did not see a scale on the trees, and, of course, they were not sprayed the past Winter. This season I can just detect a few scales in the early house, which means spraying again the coming Winter. The bark of our trees has not been damaged at all; in fact, if I had not been well acquainted with the scale, I would not have known it was there, at least until too late to apply the remedy. The experimental stations are doing good work along the line of getting out different formulae to combat this fast-spreading pest. If a formula could be gotten up so that the trees could be sprayed during the Summer when the insects are in their active state, they then could be destroyed much easier than when in the dormant state; although, according to my experience, they can be kept in check with the lime, sulphur and salt, properly applied. I also believe in applying the material the same day it is made up.

WM. TURNER.

Mushroom Growing Under Glass.

The Department of Botany of the Agricultural Experiment Station of the College of Agriculture, Cornell University, Ithaca, N. Y., has issued an illustrated bulletin, prepared by Professor George F. Atkinson and Robert Shore, on the subject of Mushroom Growing, in which are given the results of experiments in growing mushrooms in a greenhouse, and of which the following is an outline:

"The mushrooms were grown under two different conditions: First, in boxes under benches in the greenhouse, the part of the greenhouse where the temperature during the Winter is about 55 degrees F. at night and from 60 to 65 degrees F. during the day except on bright, sunny days, when the temperature may go as high as 70 degrees; second, a space under a potting table in a small basement room was used for making up another bed.

"The space under the bench in the basement was made into a bed by placing a plank in front against the legs in order to support the material. The material then was packed directly on the basement floor and against the stone wall behind. Boxes were used under the benches in the greenhouse. These were most convenient to handle under the low bench of the greenhouse because the space was quite wide. These boxes were about 3x3½ feet wide and one foot deep. There were five of these. The space in these boxes together with that under the bench in the basement made a total of about 90 square feet. Up to the present time (March, 1905) 181 pounds of mushrooms have been picked from this area from one planting of spawn, practically two pounds per square foot.

"The manure was obtained and composted October 31. By November 9 it was cured and ready for putting in the beds. The temperature of the material in the beds was suitable for spawning on November 23 when the spawn was planted. The beds were cased in the basement on December 1, in the greenhouse December 2. The first mushroom was picked about January 1; that is, five weeks from spawning the beds. In six weeks we began picking regularly; at first a few, the number gradually increasing, and then diminishing again as the beds became exhausted. A space representing about 70 to 75 square feet ceased bearing about March 20; the remaining space was bearing its heaviest about April 1 to 10. For some reason the spawn in this part of the bed was very late in starting. It was fully two months after spawning before any evidence of mushroom growth appeared. The mushrooms usually were picked every other day, and when the crop was at its best bearing from 4 to 8 pounds were collected at each picking."

Advertising Truths.

Advertising helps the small business grow large and prevents the large business from getting small.—Advertisers' Review.

The man who is too busy to advertise generally has a good deal of business on hand that has nothing to do with his business.—Brains.

If your business is good, advertise to keep it so. It is always better to look ahead and prepare than to look back and regret.—Publicity.

"The law of supply and demand" governs trade all right, but the man who goes after trade with a good live advertisement is the fellow who gets the first slice when the "demand" watermelon is cut.—Agricultural Advertising.

The wise advertiser sells goods of merit and advertises them by calling attention to their meritorious points. The business that results from a careful use of judgment and honesty in buying and in advertising will make the success which is desired.—Smith's Partner.

Advertising is an insurance against future disaster. It creates persistent, ever-increasing demand. The advertising of to-day will not only bring present orders, but familiarize everybody with your trademark and the merits of your goods.—Circulation Manager.

Keep up some advertising even in Summer, and make that little effective. If well done, the cumulative effect in the Autumn is increased. Perseverance in a good cause seldom fails of its reward. Sticking to one thing tenaciously and persistently almost invariably brings success.—Agricultural Advertising.

Advertisers should always carefully examine the publications they think of using, before finally making up their lists. If a paper is edited in a careless and slovenly manner, cut it out. If an editor does not possess either the ability or gumption to do his work well, his paper does not deserve the business, and, indeed, careless editing minimizes the value of the advertising columns.—Agricultural Advertising.

Probably most often failure in advertising can be traced to lack of persistency. Too often the advertiser gets the idea that if the returns are not immediate the venture is a failure and quits. This is the very worst thing he could do. Advertising is cumulative in its character and the work done this month or year must form the foundation for later accretions, and he who goes in for a season and quits loses not only what he puts in, but all the possibilities which might be his.—Agricultural Advertising.

An employer should never write a "mean letter" to a salesman on the road; he may correct an error by writing, but should leave his grumbling and scolding until he gets the poor salesman at home, where, if necessary, he can soften the reproof. No man is so much alone as a traveling salesman. He needs encouragement all the time, and when he is reprimanded while in the field, it means loss to his employer, through the ill effect on the mind.—Agricultural Advertising.

SAN FRANCISCO.—Luther Burbank has again been heard from in connection with astonishing experiments he is making to produce new potatoes, tubers that may eclipse any other yet given to man. Chief among this experimental work is the crossing of the Solanum Commersoni, a wild species of the potato which grows on the Mercedes River, in South America, with the common potato. The South American tuber was discovered some ten years ago, and specimens were taken to Paris, and for almost a decade Dr. Heckel studied and tried to hybridize it. Finally he sent Luther Burbank a single eye, and twelve months after the distinguished California scientist commenced his experiments he had secured 120 hybrid seedlings from it. Also is Mr. Burbank experimenting with another new species of tuber, the Solanum Magli, which grows on the west coast of South America, in the high mountains. He also is using in his new tuber experimentation other varieties, including the hardy potatoes that grow in some parts of the mountains in Arizona, in Central America, and in the high mountainous country of old Mexico. The hardy qualities of these wild potatoes, so to speak, are being combined with the ordinary tuber, which has, to a certain extent, almost run its race of service. Regarding this new potato Mr. Burbank said: "It will be better in quality, better in flavor, more productive, and of more even size, so as to do away with small potatoes altogether," and then, reserving the best quality and most important, to the last, "it will be a potato that will resist the various diseases known to the tuber family. The resistant feature in this creative work is the most difficult." Mr. Burbank further explained that the common potato, the Solanum tuberosum, has practically lost the power to produce seed balls. Crossing the old varieties with the new ones will necessarily result in the introduction of new varieties that will have new qualities.

"About how many varieties of potatoes have you on hand now, Mr. Burbank, with which you are experiment-

ing to produce the new potatoes?" he was asked.

"Over 10,000," was the ready response. Most of the 10,000 varieties are hybrid seedlings of Mr. Burbank's own creation. These have been produced by crossing, followed by careful inspection, testing and selection. April 27 Mr. Burbank commenced the planting of the 10,000 varieties on his experimental grounds. The potatoes are of all kinds and shapes, some round, some square, some long, some short, of all colors of the rainbow. There are pure white tubers and black ones, pink, red, crimson, purple, yellow are among the colors of the potatoes that are being planted. When the harvest time comes in the Fall, possibly all but 100 varieties out of the 10,000 may be rejected, and the following year probably this number will be reduced two-thirds; and so on until perfection is attained. "It will take two or three years at least," Mr. Burbank said, "to produce the new potato, as all the varieties must be put through the testing process."

ALVIN.

PASADENA, CAL.—The practical gardeners of Pasadena have formed a permanent organization for mutual protection and advancement. The organization will be known as the Pasadena Practical Gardeners' Society and starts out with twenty-four members. The following officers were elected: President, T. Hanson; secretary, Ed Kirby; treasurer, Albert Zimmerman, superintendent of city parks. The next meeting will be held at the offices of the Park Nursery Company on May 18.

SPRINGFIELD, MASS. — Edgar King, of New York, for 12 years assistant superintendent of Mount Auburn cemetery there, has been secured by the trustees of the Springfield Cemetery Association and will serve here in the same capacity. Nelson F. Higgins, who has had charge of the cemetery greenhouses for a number of years, has resigned and will go into the florist business. Superintendent Fred Emery and Mr. King will hereafter have charge of the greenhouses.

SURPLUS BULBS

FOR PRESENT PLANTING



GLADIOLUS—

- Angusta. The best florists' pure white variety in existence. Selected bulbs throw three flower stalks, each branching in candlebra form, with two and three heads of bloom.
- | | |
|--|----------------|
| Immense bulbs (Angusta), 100 | 1000 |
| 5 to 7 in. in circumference, ... | \$2.50 \$20.00 |
| (Regular wholesale price, \$4.00 per 100.) | |
- MADEIRA VINES..... 1.25 10.00
 CINNAMON VINES..... 2.00 15.00
 TIGRIDIAS, fine mixed..... 2.00 15.00
 COOPERIA DRUMMONDII 1.50 15.00
 ISMENE CALATHINA..... 1.50 10.00
 per doz., \$1.00 6.00
 GLOXINIAS, named varieties, colors separate, very large bulbs 2.50 20.00
 CANNAS, Grand Rouge. One of the finest ornamental foliage varieties (parent of Black Beauty)..... 1.50 10.00
 MONTBRETIES, in variety.... 1.50 12.00
 SPOTTED CALLAS, large bulbs..... 3.00
 SPOTTED CALLAS, mailing bulbs..... 2.00 15.00
 YELLOW CALLAS, large bulbs 5.00
 " Mailing Size, 3.00 25.00
 RED CALLAS, large bulbs.... 5.00
 CALLA ELLIOTTIANA, large bulbs, 50 cts. each; \$5.50 doz.
 BEGONIAS. New Single Frilled, mixed, per doz., \$1.25 10.00
 A MARYLLIS Longifolia alba, very large..... 5.00
 Formosissima (Jacobean Lily) 3.00 25.00
 VITTATA HYBRIDS, 25c. each; \$2.50 doz.

Ask for Complete List of Perennials, Dormant Roses, &c.



Prices of Gold Storage Liliu Bulbs For delivery any day in the year. One whole box sold at Thousand Rate.

SHOULD BE PLANTED NOW FOR EARLY FALL SALES

LILIUM LONGIFLORUM GIGANTEUM (Dark Stem)	100	1000
5 to 7 in. bulbs, 500 in a case.....	\$5.00	\$49.00
7 to 9 in. bulbs, 300 in a case.....	8.50	75.00
LILIUM LONGIFLORUM (Our "Special Stock")		
7 to 9 in. bulbs, 300 in a case.....	7.50	60.00
8 to 10 in. bulbs, 200 in a case.....	11.50	109.00
10 to 12 in. bulbs, 150 in a case.....	17.50	150.00
LILIUM HARRISII—Cold Storage, present delivery		
5 to 7 in. bulbs, 400 in a case.....	5.00	40.00
LILIUM TIGRINUM		
Splendens (Single), 7-9 in., 150 to case	4.00	35.00
Double.....	4.00	45.00

COLD STORAGE LILIUM SPECIOSUMS

LILIUM SPECIOSUM RUSRUM (Dark Red)	100	1000
8 to 9 in. bulbs, 100 in a case.....	\$6.00	\$50.00
9 to 11 in. bulbs, 100 in a case.....	7.50	70.00
11 to 13 in. bulbs, 75 in a case.....	12.00	
LILIUM SPECIOSUM ALBUM (White)		
8 to 9 in. bulbs, 150 in a case.....	7.00	\$60.00
LILIUM ROSEUM, or MELPOMENE (Rose)		
8 to 9 in. bulbs, 100 in a case.....	8.50	60.00
9 to 11 in. bulbs, 100 in a case.....	9.50	100.00

Get our prices for COLD STORAGE VALLEY. Can ship every day in the year.

HARDY VINES AND CLIMBERS

CLEMATIS INTEGRIFOLIA DURUNDI

Iron Cross Clematis. The steel blue flowers grow in the form of the famous German Iron Cross, measuring 3 to 4 inches across in a dense form intermixed with the buds. A very robust and vigorous grower, although of semi-dwarf habit. Blooms from early summer until late fall. 4-in. pot plants, 50c. each; \$5.00 per doz.

CLEMATIS

JACKMANNI HYBRIDS

Duchess of Edinburgh. Double white. Henry 1. Large single white, very large flower. Mme. Baron Villard. Light rose. Sieboldia. Lavender. The Gem. Deep lavender, blue, very fine. Gipsy Queen. Fine dark single purple. Imported three-year-old open-ground roots, 60c. each, \$1.00 per doz.; \$30.00 per 100. Imported two-year-old pot-grown, 40c. each; \$3.00 per doz.; \$20.00 per 100. American-grown one-year-old field roots, \$2.00 per doz.; \$15.00 per 100; \$125.00 per 1000.

OTHER CLEMATIS

Clematis paniculata. Strong three-year-old roots. 15c. each, \$1.50 per doz., \$10.00 per 100. Strong one to two-year-old roots. 10c. each, \$1.00 a doz., \$7.50 per 100. Clematis coccinea. A handsome variety, producing an abundance of large rosy-scarlet, bell-shaped flowers, which are exceedingly handsome and most useful for all sorts of decoration. Blooms from June until frost. Quite hardy. 10c. each, \$1.00 per doz., \$7.50 per 100. Clematis crispata. Much like coccinea, but producing very fragrant lavender flowers, tipped white. 10c. each, \$1.00 per doz., \$7.50 per 100.

Clematis Davidiana. Dwarf, herbaceous sort, growing about 2 to 3 feet high, covered with deep blue flowers in clustered heads; also singly in leaf axils. 1 year-old, 2 1/2 in. pots, 8c. each, 65c. per doz., \$4.00 per 100, \$30.00 per 1000. Two-year-old, open-ground, 10c. each, 75c. per doz., \$5.50 per 100, \$50.00 per 1000.

WISTARIA SINENSIS

Blue. Open-grown, extra strong, 4 ft. plants, 40c. each, \$3.00 per doz., \$20.00 per 100. White. Open-grown, extra strong, 4 ft. plants, 50c. each, \$3.50 per doz., \$25.00 per 100.

HONEYSUCKLES

Extra strong field-grown plants, 4 to 8 ft. vines in variety, 50c. each, \$4.00 per doz., \$30.00 per 100. Variegated: Balleana, yellow; Germanica, white; Germanica, red; Belgica, red; Scarlet Trumpet; Yellow Trumpet.

HARDY ENGLISH IVIES

Strong 4 in. pot-grown (cut back), \$1.00 per doz., \$7.00 per 100, \$65.00 per 1000. Field Grown. 2 ft. vines, strong plants, \$1.25 per doz., \$8.00 per 100. 2 1/2 in. pots, 30c. per doz., \$2.50 per 100, \$20.00 per 1000.

AMPELOPSIS VEITCHII

Sometimes called Boston Ivy and Japan Ivy 3 to 4 ft. high. Extra strong, imported roots, many vines, 20c. each, \$1.50 for 10; \$12.50 for 100; strong roots, 75c. for 10; \$5.00 per 100. Well established 5 in. pot plants, 30c. each, \$3.00 per doz., \$20.00 per 100.

ARISTOLOCHIA SIPHO

(Dutchman's Pipe Vine) We offer an extra fine stock of this most useful hardy climber in extra strong vines, 2 to 4 ft., 50c. each, \$5.00 per doz., \$40.00 per 100.



131 WEST N. Y. CITY
 23d STREET. PALISADE NURSERIES, SPARKILL, N. Y.
 Importers, Exporters and Growers of SEEDS, BULBS and PLANTS



Section of field of

LILIUM HARRISII

Grown by

CHAS. A. V. FRITH, Bermuda

Photo taken April 21, 1905

The "SEMPER IDEM" brand

Mention the Florists' Exchange when writing.

ROSES CHRYSANTHEMUMS CARNATIONS

Grafted and own root stock of leading and choice varieties. We call especial attention to our

General assortment of well-known and standard varieties.

Rooted cuttings now ready of all reliable and well-known varieties.

KILLARNEY Rooted Cuttings Now Ready
A. N. PIERSON, Cromwell, Conn.

Mention the Florists' Exchange when writing.

CHICAGO CARNATION CO.
JOLIET, ILL.

Ours plants are now in the field. Write us for Fall delivery. Mention the Florists' Exchange when writing.

RED SPORT

The Great Christmas "Hollyherry" red Carnation. Most profitable red ever introduced, and an easydoer, everybody can successfully grow it. Strong plants from 2 1/2 in. pots, ready to plant in field or on bench inside. \$6.00 per 100; \$50.00 per 1000.

A. B. DAVIS & SON, Carnation Specialist, PURCELLVILLE, VA. Mention the Florists' Exchange when writing.

Carnations
F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

CARNATIONS
 Chrysanthemums and Violets
 Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Kennett Square, Pa. Mention the Florists' Exchange when writing.

CARNATION PLANTS

From 2 in. pots, every one sure to grow

500 Mrs. Lawson	Per 100	\$2.50
300 Echantress	Per 100	3.50
200 White Lawson	Per 100	6.00

R. D. KIMBALL, Waban, Mass. Mention the Florists' Exchange when writing.

The Lewis Conservatories
MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist
 Mention the Florists' Exchange when writing.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.
 Mention the Florists' Exchange when writing.

J. D. THOMPSON CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty
 Mention the Florists' Exchange when writing.
CLEARANCE SALE

We have a surplus of
CARNATION PLANTS
 Grown for our own planting. The stock was all early propagated, is in 2 in. and 2 1/2 in. pots, and in best of condition. We offer at price of rooted cuttings:

700 Harlowarden	Per 100	\$4.00
100 Mrs. Patten	Per 100	4.00
400 Neptune, Dorner's New Yellow	Per 100	5.00
300 Echantress, fine	Per 100	3.00
500 Fair Maid	Per 100	3.00
100 Dorner's New Eclipse	Per 100	12.00
100 Cardinal, the new red	Per 100	12.00

Make us an offer on the lot.
Riverside Greenhouses, Auburndale, Mass.
 Mention the Florists' Exchange when writing.

1905 Florists' Directory

THE AMERICAN FLORIST
 Directory for 1905 is now ready for distribution. It contains 452 pages, including complete lists of the **Florists, Seedsmen and Nurserymen** of the United States and Canada, arranged both by states and towns and all names alphabetically. Also lists of Foreign Merchants, Firms which issue catalogues, Horticultural Supply Concerns, Parks, Cemeteries, Landscape Architects, Experiment Station Horticulturists, Botanical Gardens and other invaluable trade information.

Price, \$2.00 Postpaid
 Address
A. T. De La Mare Ptg. & Pub. Co.
 Limited
 2 to 8 Duane Street, New York
 Mention the Florists' Exchange when writing.

Cleveland, O.

Huckleberry Branches.
 To their complete satisfaction, since wild smilax is out of commission for the time being, Cleveland decorators have been using branches from the wild huckleberry bush introduced by the discoverer of the wild smilax, Mr. Darnell, of J. M. Gasser Co., speaking of it the other day, says it really is a boon to those who do lots of decorating through the Summer. While it doesn't give that graceful drooping effect so characteristic of wild smilax, it takes the place of it very nicely. This firm used some which was sent them recently in a decoration with complete satisfaction all round, and, by the way, it was this same decoration in which callas that were sent all the way from Los Angeles were used. Westman & Getz had the church decoration and banquet for the Cleveland Homeopathic College commencement, which occurred last week. O. G.

Syracuse, N. Y.

News Items.
 Owing to the frosty nights little is being done in the Spring bedding line. Prices on plants are: Geraniums, \$1 to \$2; verbenas, 60c.; stocks, \$1; pansies, 35c. and 50c. per dozen. P. R. Quinlan & Co. plan to put out their carnations in the field next week. L. E. Marquisee is now engaged in planting out. Henry Youell has returned to England, and is now in charge of an extensive plant in Lewes, Sussex, where roses are grown for the market. This season he will introduce carnation growing on the American plan, using the leading American varieties. P. R. Quinlan has returned to Cuba. J. B. B.

SALT LAKE CITY, UTAH.—A fortune is waiting for the man who will discover some conditions under which roses can be successfully raised in hot-houses in Salt Lake, says the Tribune. This has not been done so far, and florists of this city say that thousands of roses are imported from other States each Winter, and, consequently, thousands of dollars go out of this State for those roses. Since roses are the most popular flowers during the Winter among those who can afford them, it will be seen what the raising of roses in this city would mean to some man in a financial way.

CHILLICOTHE, MO.—A recent wind storm did serious damage at the nursery of R. C. Isherwood, entirely demolishing his greenhouse structure.

ROBT. C. PYE
Carnations
NYACK, N. Y.

Mention the Florists' Exchange when writing.
The Beautiful Pink Carnation CANDACE
 Dissemination 1906, \$2.00 per doz., \$12.00 per 100. \$100.00 per 1000, Early-commercial.
Indianapolis Flower and Plant Co.
 and John Hartig, Indianapolis Ind.
 Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000
PHYLLIS	\$12.00	\$100.00	LAWSON	\$2.00	\$15.00
CHICAGO WHITE	12.00	100.00	NELSON	1.50	12.50
RICHMOND GEM	10.00	75.00	MORNING GLORY	1.50	12.50
THE BELLE	5.00	45.00	JOOST	1.00	9.00
CRUSADER	5.00	45.00	HIDINBOTHAN	1.00	9.00
INDIANAPOLIS	5.00	45.00	FLORA HILL	1.00	9.00
BOSTON MARKET	2.50	20.00	QUEEN LOUISE	1.00	9.00
ADONIS	2.50	20.00	PERU	1.00	9.00
ESTELLE	2.50	20.00	G. ANGEL	1.00	9.00

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA, UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	PERLE VON GODES-		
ROSALIND ORR			BERG	\$5.00	\$40.00
ENGLISH	25.00	200.00	BRIDESMAID	3.00	25.00
LA DETROIT	6.00	50.00	BRIDE	3.00	25.00
AMERICAN BEAUTY	5.00	40.00	IVORY	3.00	25.00
LIBERTY	5.00	45.00	PERLE	3.00	25.00

AMERICAN BEAUTY, bench plants, \$5.00 per 100; \$40.00 per 1000.

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central
PETER REINBERG, 51 Wabash Av., Chicago

Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION
 Price, \$3.50. Send for Sample Pages
A. T. DE LA MARE PTG. & PUB. CO. Ltd., 2-8 DUANE STREET, NEW YORK

LIST OF ADVERTISERS

Table listing various florists and businesses with their names and addresses, such as Allen J. K., Ambacher A., Anderson & Christensen, etc.

INDEX TO STOCK ADVERTISED

Index listing various plant species and their corresponding page numbers, including Amaryllis, Anemone, Arcauraria, etc.

Contents.

Table of contents listing sections like Advertising Truths, Canadian News, Catalogues Received, etc., with their respective page numbers.

Time to Graft Orange Trees.

(168). N. F.—The best time to graft orange trees is just before they start to make a new growth. In the case of old plants that have been dormant, or nearly so, all Winter, now would be about the right time to graft them.

Moles on a Lawn.

(166) I am having quite serious trouble with moles on my lawn this season. They work not only in the grass, but in the beds where are bulbs and hardy plants. Kindly advise a way or ways to exterminate the pests. Is there anything with which they can be fed which will act as a poison?

GERANIUMS

Mme. Poitevine, S. A. Nutt, Double Gen. Orant, Alphonse Ricard, \$3.00 per 100. SALVIA SPLENDENS, \$8.00 per 100. BEGONIA ERFORDIA, \$10.00 per 100.

GEO. A. BEETZ

Grand Ave. or 233d St., near Napier, Woodlawn, New York City. Mention the Florists' Exchange when writing.

Chatenay, Uncle John, Perle

SMITH'S CHRYSANTHEMUM MANUAL

A Book That Every Grower Should Possess. PRICE 25 CENTS. A. T. DE LA MARE PTG. AND PUB. CO. Ltd. 2-8 Duane Street, NEW YORK

OWN ROOT ROSES

Bride, Bridesmaid, Golden Gate, 2 1/2 in. pots \$4.00 per 100; \$38.00 per 1000. 3 in. pots, \$7.00 per 100; \$60.00 per 1000. Perle, Sunset, Sunrise, 2 1/2 inch, \$5.00, 3 inch, \$8.00 per 100.

GRAFTED FINE STOCK

Bride, Bridesmaid, Golden Gate, Carnot, Kaiserin, Testout, La France, Wootton, Watteville, Albany, from 2 1/2 inch pots, \$12.00 per 100.

Miscellaneous Plants

READY FOR IMMEDIATE SALES. Size pots Per 100. Achyranthus Emersoni, etc. 2 1/2 \$3.00. Ageratum, white and blue, Princeess 2 1/2 3.00.

Blake's Lever Clip

FOR FASTENING STAKES TO THE CROSS WIRE. PATENTED SEPT. 23, 1902. They never slip and are a great saving of both time and money. EVERY GROWER SHOULD TRY THEM AND BE CONVINCED. Price, \$1.75 per 1000. B. S. BLAKE & SON, ROCHESTER, N. Y.

BOOKS

Table listing books for sale: GARDENER'S ASSISTANT, \$15.00; WRITE FOR PROSPECTUS; VIOLET CULTURE, \$1.50; THE HEATHER, \$1.50; AMERICAN CARNATION, \$3.50; PLANT CULTURE, \$1.00; RESIDENTIAL SITES, \$2.50; TELEGRAPH CODE, \$2.50.

CARNATIONS

FROM SOIL AND POTS, STRONG. White Lawson, \$3.00 1000; Lady Bountiful, \$7.00 60.00; Nelson Fisher, \$7.00 25.00; General Maceo, \$3.00 25.00; Morning Glory, \$3.50 25.00; Mrs. G. M. Bratt, \$3.50 25.00; Melba, \$3.50 25.00; White Clond, \$2.50 20.00; Adonis, \$5.00 20.00; Alpine Glow, \$3.50 25.00; Mrs. Theo. Roosevelt, \$3.00 25.00; Mrs. F. Joost, \$2.50 25.00; White Bratt, \$5.00 25.00; Mrs. T. W. Lawson, \$3.00 25.00; Lieutenant Peary, \$12.00 25.00; Alaska, \$2.00 25.00; Prosperity, \$2.00 25.00.

CHRYSANTHEMUMS

From 2 1/2 in. and 3 1/2 in. pots. A. J. Balfour, G. W. Childs, Golden Wedding, Miss Alice Byron, Dr. Eagenhard, Merz, Mayflower, W. H. Chadwick, Yellow Eaton. Prices from 2 1/2 inch pots, \$4.00 per 100. Col. D. Appleton, H. L. Sunderbruch, Mrs. McArthur, Monrovia, Mrs. Barclay, Mand Dean, Mrs. T. L. Park, Mrs. Coombs, Nellie Pockett, Nagoya, Soleil d'Octobre, Superba, Silver Wedding, T. Carrington, White Bonaffon, Western King, Vivand-Moril. Price from 2 1/2 inch pots, \$3.50 per 100; \$30.00 per 1000. Autumn Glory, Ads Spaulding, Collingfordii, Dorothy Devens, Glory Pacific, Golden Trophy, Harry May, Harry Parr, H. W. Reiman, J. E. Lager, J. E. Troy, Mrs. Jerome Jones, Meta, Minnie Wansmaker, Mrs. Baer, Mrs. S. T. Murdock, Miss M. M. Johnson, Major Bonaffon, Mrs. Humphrey, Mad. Fred Bergman, Nivens, Polly Ross, Pink Ivory, Rose Owen, Thome H. Brown, Timothy Eaton, W. H. Lincoln, Xenia, Yanoma. Price, from 2 1/2 inch pots, \$3.00 per 100; \$25.00 per 1000.

WOOD BROS., Fishkill, New York

Mention the Florists' Exchange when writing.

LIKE THE BEE



A PROSPEROUS florist is never idle; do like this busy little insect—the bee—take advantage of the great work the nerve-resting florist, Godfrey Aschmann, and his people have done since Easter. 1,000 of them swarming and enjoying their lives in Aschmann's Greenhouses. "O! Aschmann's flowers taste so sweet," the bees say; "we cannot stop; we have a big field to work on; 100,000 of the choicest; every hole and corner full; let us harvest." Secure Bargains now, and for Decoration Day. Please note our lowest prices.

Plants out of 4 in. pots, at \$7.00 per 100 in the following varieties:

GERANIUMS, 15,000, S. A. Nutt, best double crimson; La Favorite, best double white; Mme. Thibaut, best double pink, La Pilote, best double scarlet; Ageratum, dwarf blue; Heliotrope; Scarlet Sage, Clara Bedman (3 in., \$5.00); Begonia Vernou, dark red or pink, (3 in., \$5.00); Nasturtium, all colors; Fuchias, 10c., (5 in., \$1.50 per doz.); Periwinkle or Vinca Variegata, 10c., (2 1/2 in. to 3 in., 5c.); Ivy Geraniums, Tuberos rooted Begonias, (5 in., \$2.00 per doz.); Dracena Indivisa, broad leaved, imported, 30 in. high, 50c. each; home grown, 5 in., 25c. Hydrangea Otaksa, 8 in. pots, some show buds, some not; for outdoor planting, 25c. to 35c. each. Dusty Millier, Centaurea Canariensis, 3 in., \$5.00 per 100. Double Petunia, 5 in. pots, 20c.

The following is a list of small plants out of 2 1/2 in. pots at \$3.00 per 100: Cypripedium, Verachelfeldii, Queen Victoria, Golden Queen and Fairy; Verbenas, have 10,000; Petunias, inimitable variegated California Giant, (3 in. pots, 5c.); Sweet Alyssum, Little Gem; Lobelia, dwarf and trailing; Cuphea; Tradescantia, 3 varieties: Phlox Drummondii; Parlor Ivy; Acorus Gramineus, a beautiful variegated grass for vase, 10c. 25 sold at 100 rate.

I have a fine new variegated Carnation of my own, not named yet; the odor is like the real clove; admired by everyone who has seen it. 3 in. pots, 15c.; 2 1/2 in., 10c. Have only 500 of them.

DON'T FORGET THAT I AM THE MOON VINE GROWER OF THE LAND.

A. W. Smith's Hybrid Moon Vine, Ipomoea Noctiflora, is the one I grow exclusively. It is the only true Moon Vine in America. Mr. Smith has a world-wide reputation for growing the

Many thanks to my customers for their liberal Easter trade. All goods must travel at purchaser's risk. Cash with order, please.

GODFREY ASCHMANN, 1012 ONTARIO STREET, PHILADELPHIA, PA.

WHOLESALE GROWER AND IMPORTER OF POT PLANTS

Mention the Florists' Exchange when writing.

Nephrolepis Barrowsii

\$25.00 per 100.

BOSTON FERNS \$3.00 per 100.
SCOTTII " 10.00 per 100.

Strong 2 1/2 inch stock, from bench. See display advt. in last issue, page 651.

HENRY H. BARROWS & SON WHITMAN, MASS.

Mention the Florists' Exchange when writing.

A Few Good Things You Want

Dracena Indivisa, 3, 4 and 5 in., \$5.00, \$10.00 and \$25.00 per 100.
Asparagus Plumosus, 3 in., \$5.00 per 100.
Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.
Geraniums, S. A. Nutt, Castellane, John Doyle, Perkins, Mme. Sallerol, Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; 3 in. pots, \$5.00 per 100.
Vinca Var., 2 in., \$2.00 per 100.
Gladiolus Bulbs, fine mixture, 75c. per 100, \$6.00 per 1000.
English Ivy, nice vines, \$5.00 per 100.
German Ivy, 2 in., \$2.50 per 100.
Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia, Coleus, red and yellow; Ageratum, blue; Alternanthera, red and yellow; Cigar Plant, 2 in. pots, \$2.00 per 100.
Cannas, red and yellow, and var., 3 in. pots, \$5.00 per 100.
Vinca Var., 3 in., \$4.00 per 100.
Cash with order

GEO. M. EMMANS, Newton, N. J.
Mention the Florists' Exchange when writing.

best Moon Vine seed. Please bear in mind that this is no Morning Glory, like some sell for Moon Vines, but the pure white, waxy moonflower, as large as saucers. 2 1/2 in., \$5.00 per 100; 3 in., \$7.00 per 100; 4 in., \$10.00 per 100. Nicely staked up.



Araucaria Excelsa

Just arrived from Belgium per steamer Etolian, May let (3,000, 2,000 more are coming by next steamer), grow for me under contract by an American Araucaria specialist in Belgium. I must say for the benefit of my customers that they were never before so nice and large for the money as this year. I herewith quote you special prices on them; just look:

10 to 12 ins. high, 2 yr. old, 3 tiers.....\$0.50
12 to 14 ins. high, 3 to 4 tiers..... .60
14 to 15 ins. high, 3 yr., 3 to 4 tiers..... .75
18 to 20 ins., 3 yr., 4 to 5 tiers..... 1.00

Specimen, 30 to 35 in., \$1.50. **A. Compacta**, very beautiful, unusually large, \$1.00 to \$1.25 each. **A. Glauca**, 75c. to \$1.00.

Kentia Forsteriana, 30 to 36 in. high, 4 yr. old, \$1.00; 4 yr. old, 25 to 30 in. high, 75c. **Belmorea**, 4 yr. old, 25 to 30 in. high, \$1.00 each. Above are the sizes entered in the Philadelphia Customs House.

Ficus Elastica, imported, 4 in. pots, 25c.; ready June 1st.

ASPARAGUS SEEDLINGS

from flats, well grown and thrifty
Plumoseus Nanus, \$10.00 per 1000. Cash with Sprenger, \$3.00 per 1000. order prepaid
Get our prices on large lots.
Large 3 in. Plumoseus Nanus \$25.00 per 1000, prepaid.
YALAH Conservatories, Yalaha, Lake Co., Fla.
Mention the Florists' Exchange when writing.

FERNS A good variety of the right kinds for filling fern dishes, etc., 2 1/2 in., \$3.00 per 100; \$25.00 per 1000.

DRACENA INDIVISA 6 in., \$5c. and 450c. each; 4 inch, \$10.00 per 100.

Mme. Sallerol Geraniums, Coleus, Salvia Splendens 2 1/2 in., \$2.00 per 100.

SALVIA, from flats, \$1.00 per 100.

H. WESTON, Hempstead, N. Y.
Mention the Florists' Exchange when writing.

PALMS AND FERNS

Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; **Pteris** and **Hoston Ferns**, 6 in., \$50.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward. Ferns in variety, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. **Latania Litoralis**, 3 in. pots, \$5.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up.
Kentia Forsteriana and **Belmorea**, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. **Areca Lutea**, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants, from \$1.50 up.

Araucaria Excelsa, 4 in., 45c.; \$5.00 per doz.; 6 in., \$1.00. Larger plants from \$1.50 up. **Araucaria Compacta**, from \$1.00 to \$5.00 each. **Pandanus Urtica**, 8 in. pots, 50c. **Dracena Indivisa**, 5 in. pots, \$15.00 per 100. **Phoenix Beccinata**, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$3.00 per doz. Larger plants from \$1.00 up. **Phoenix Canariensis**, fine specimens, from \$3.00 to \$35.00 each.
Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa.
Mention the Florists' Exchange when writing.

BOSTON FERNS Rappers from bench, \$5.00 per 100; \$40.00 per 1000. Larger size, transplanted once, \$6.00 per 100; \$50.00 per 1000.

PIERSON FERNS, good strong plants, \$6.00 per 100; \$50.00 per 1000.

PIERSON COMPACTA, small plants, 30c. each. Terms Cash.

A. M. DAVENPORT, 88 Grove St. Watertown, Mass.
Mention the Florists' Exchange when writing.

McFADDEN'S ASPARAGUS

42 HOUSES 100,000 PLANTS

Sprays or Strings in any quantity

EMERSON C. McFADDEN

Tel. 28 A SHORT HILLS, N. J.
Mention the Florists' Exchange when writing.

JOSEPH HEACOCK WYNCOTE PA.

Grower of

KENTIA BELMOREANA AND KENTIA FORSTERIANA

Mention the Florists' Exchange when writing.

ORCHIDS

FLORISTS' ORCHIDS

Largest Importers, Exporters, Growers and Hybridizers in the world.

SANDER & SONS, St. Albans, England
Agent, A. Dimmock, 31 Barclay St., N. Y. City.
Mention the Florists' Exchange when writing.

FERNS OUR SPECIALTY

Assorted Ferns for Jardinieres. We have a fine lot of these ferns in all the best varieties ready for immediate use from 2 1/2 in. pots at \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FERN SEEDLINGS

We are booking orders now for June delivery at \$1.00 per 100; \$8.50 per 1000.

ANDERSON & CHRISTENSEN Telephone 14 F Short Hills, N. J.
Mention the Florists' Exchange when writing.

BOSTON FERNS

Palms, Dracenas
Geraniums, Coleus

and general bedding stock in large quantities. Write for prices. Cash or references.

L. H. FOSTER ESTATE, 45 King Street, Dorchester, Mass.
Mention the Florists' Exchange when writing.

Araucaria Excelsa

From \$1.25 to \$2.00 each.

Kentia Belmoreana, from 50c. to \$5.00 each. **Rubber Plants**, from \$6.00 per doz. up.

WM. A. BOCK, No. Cambridge, Mass.
Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS

Nice stock from 2-in. pots, \$2.25 per 100; \$20.00 per 1000; not less than 500 at 1000 rates.

W. W. COLES, Kokomo, Ind.
Mention the Florists' Exchange when writing.

Boston Ferns NICE YOUNG STOCK \$10 per 1000

ZAMIA INTECRIFOLIA \$12.00 per 1000

Shipped by freight. Send money order on Little River, Fla. Send for price list.

SOAR BROS., Little River, Florida
Mention the Florists' Exchange when writing.

ORCHIDS

Arrived in superb condition, direct from the woods, the following Orchids: **Cattleya labialis**, **Cattleya Dowiana**, **Cattleya Warnerii**, **Lelia Iava**, **Miltonia**, **Cattleya Dendrobium**, **Chrysotoxum** and **Burlingtonia fragrans**. Write for special list, also for Catalogue of established Orchids.

LAGER & HURRELL, Summit, N. J.
Orchid Growers and Importers
Mention the Florists' Exchange when writing.

Kalamazoo, Mich.

News Notes.

Cold, rainy weather has retarded the bedding plant trade a little, but with the advent of a warmer spell it is now opening up nicely. This department is getting to be quite important now with the local growers, and a good many thousand plants are annually sold in the city at very fair prices. Hanging baskets and flower boxes, also, bring in a nice little grist. Good geraniums sell easily at \$1.50 and \$2 per dozen, are always in demand, and, with cannas and petunias, head the list in popularity.

Hardly had the carnations been planted before the rains came, which lasted several days, so the growers won't have to water them this year.

Herman Meyers, lately with Van Bochove & Bro., and more recently at Newcastle, Ind., has undertaken the management of The Dunkley Floral Co., and is now busily engaged in getting the plant into shape again.

Mr. Smith, of the Central Nursery Company, is tearing down the greenhouses on the north end of the city and will remove them to the nursery grounds, about three miles south of the city, at the same time adding several more houses and remodeling the whole plant on the best approved principles. The company found it inconvenient to have their places scattered, especially during shipping seasons, so decided to locate them all together at the most convenient point. S. B.

SCOTTII

The Most Graceful Nephrolepis Known.

Retailers who have handled this fern are unanimous in proclaiming it the best Fern ever introduced.

Consult any grower who has bought Scottii and he will tell you that it is as far ahead of the Boston as that variety is ahead of all other introductions.

See my ad. on page 471 of issue of April 8 for full particulars.

JOHN SCOTT,

Keap Street Greenhouses, BROOKLYN, N. Y.
BRANCH:
E. 45th St. and Rutland Road, Flatbush.
TELEPHONE, 1207 WILLIAMSBURG.

Mention the Florists' Exchange when writing.

EXAMINE THIS PRICE LIST

1000 Boston Ferns, 4 in., 12c.
1000 Boston Ferns, 2 1/2 in., 4c.
100 Scottii, 5 in., \$1.00 each.
100 Scottii, 4 in., 50c. each.
100 Pierson Ferns, 3 in., 10c. each.
100 Sword Ferns, 4 in., 15c.
1000 Geraniums, red, 3 1/2 in., 5c.
2000 Geraniums, red, 2 1/2 in., 2 1/2c.
Balm Rose, Nutmeg, etc., 40c. per doz.
Ageratum, blue and white, 2 1/2 in., 2c.
1000 Heliotrope, light and dark blue, 2 1/2c.
2000 Verbenas, seedlings, separate colors, 1c.; 2 1/2 in., 2c.
2000 Scarlet Sage, 2c.; Impatiens, 3c.
1000 Shasta Daisy, 2 1/2 in., 3c.
2000 Clematis Pliculata, 3 year, 10c.
1000 Clematis Jackmanni, 2 year, 20c.
25000 Carnations, from flats, ready to plant, fine stock. Queen Louise and Joost, \$2.00 per 100; \$20.00 per 1000.
1000 Wistaria, blue, 3 year vines, 10c.
2000 Honeysuckle, Golden and Halleana, field-grown, 6c.
1000 English Ivy, long tops, 8c.
2000 Ampelopsis Veitchii, 2 years old, 8c.
2000 Ampelopsis, pot grown, dormant, long tops, 4c.
5000 California Privet, 2 year, transplanted, fine bushy stock, \$3 per 100; \$30 per 1000.
1000 Choice Dahlia Clumps, not named, 4c.
1000 Vinca Major, var., 4 in., 8c.; 2 1/2 in., 2c.
1000 Hydrangea Otaksa, 2 1/2 in., 3c.
1000 Hydrangea Pliculata Grandiflora, 3 year, 10c.; 2 year, 8c.; 4 year, 15c.
5000 Chrysanthemums, 2 1/2 in., Wm. Duckham and Dr. Englehard, Salter, Taggart, Convention Hall, 4c.; Pacific, Polly Rose, Appleton, Eaton, Bonnafont, Silver Wedding and others, \$2.25 per 100.
1000 Clothilde Souper Rose, 4 in., \$2.00 per dozen.
1000 Asparagus Sprengerl, 4 in., fine, 10c.
1000 Asparagus Plumosus Nanus, 3 in., 5c.
1000 Tritoma Uvaria Grandiflora, field roots, 5c.
1000 Abutilon Savitzii, 2 1/2 in., 4c.
10,000 Shrubs, Vines and other stock.
Send for all lists. Cash, please.
BENJ. CONNELL, West Grove, Pa.
Mention the Florists' Exchange when writing.

Dreer's Select List of HARDY PERENNIALS

We offer here only the most **Showy and Decorative Sorts**, including varieties suited for **CUT FLOWER** purposes. These varieties are marked with an asterisk (*).

For the most complete list of Hardy Perennials offered in America, see our current Wholesale List.

This important branch of our Plant Department has been completely reorganized during the past year, and we are now able better than ever before to supply almost any demands and to execute orders promptly.

Many planters not thoroughly familiar with this class of plants have an idea that nothing but a large, field-grown clump will give satisfactory returns the first season. This, in most instances, is a mistake. A vigorous plant of proper size will, in nearly every case, give quicker and better returns than the best so-called "field clumps" that can be procured. It will be noticed that the majority of the stock offered in this list is described as being 3, 4 or 5-inch pots. This does not necessarily mean that the plants have been altogether pot-grown, but that they have been field-grown and dug and potted up during the Fall and early Winter months, and such stock can be planted, even late in the Spring, with practically no loss, which, in the case of clumps, is often quite serious.

	Per doz.	Per 100		Per doz.	Per 100		Per doz.	Per 100
Acanthus Mollis. 4-in. pots.....	\$1.25	\$10.00	Bocconia Cordata. Strong roots....	.75	6.00	*Helenium Autumnale Superba. 4-in. pots.....	1.00	8.00
Latifolius. 4-in. pots.....	1.25	10.00	*Boltonia Asteroides. 4-in. pots....	.75	6.00	*Grandicephalum Striatum. 3-in. pots.....	.75	6.00
*Achillea Filipendulina. 4-in. pots..	.75	6.00	*Latiqama. 4-in. pots.....	.75	6.00	*Hoopseii. 4-in. pots.....	1.00	8.00
Millefolium Roseum. 3-in. pots....	.75	6.00	Campaula Carpatica. Blue. 4-in. pots.....	.75	6.00	*Pumilum. 3-in. pots.....	1.00	8.00
*The Pearl. 3-in. pots.....	.75	5.00	White. 4-in. pots.....	.75	6.00	*Magnificum. 3-in. pots.....	1.25	10.00
Acanthum Fisherii. Strong.....	1.50	12.00	Grandis. 3-in. pots.....	1.00	8.00	*Helianthus Davidiana.....	.75	6.00
Autumnale. Strong.....	1.25	10.00	Grossekil. 4-in. pots.....	.75	6.00	*Mollis.....	.75	6.00
Adonis Pyrenaica. Strong.....	1.25	10.00	Persicifolia. 4-in. pots.....	.75	6.00	*Multiflorus fl. pl.....	.75	6.00
Vernalis. Strong.....	1.00	8.00	Alba. 4-in. pots.....	.75	6.00	*Maximus.....	.75	6.00
Agrostemma Coronaria. 4-in. pots..	.75	6.00	*Bachhouae. 4-in. pots.....	1.00	8.00	*Maximiliana.....	.75	6.00
Flos Jovis. 3-in. pots.....	.75	6.00	*Gigantea Moerheiml. New; 3-in. pots.....	1.25	10.00	*Meteor.....	.75	6.00
*Anthericum Liliastrium. Strong....	.75	5.00	*Pyramidalis. Strong 1-year-old plants.....	1.00	8.00	*Miss Mellish.....	.75	6.00
*Liliago. Strong.....	.75	5.00	Punctata. 4-in. pots.....	.75	6.00	*Rigidus.....	.75	6.00
Ajuga Reptans Variegata. 3-in. pots.....	1.25	10.00	Rapunculoides. 4-in. pots.....	.75	6.00	*Soleil d'Or.....	.75	6.00
Genevensis. 3-in. pots.....	1.00	8.00	Trachelium. 4-in. pots.....	1.00	8.00	*Tomentosum.....	.75	6.00
*Alyssum Saxatile Compacta. 3-in. pots.....	.75	6.00	Callimeris Incisa. 3-in. pots.....	.75	6.00	*Halimifolia Semi-Plena. New.....	1.50	10.00
*Flore Plena. 4-in. pots.....	2.50	18.00	*Caryopteris Mastacanthus. 3-in. pots.....	.75	6.00	*Scaber Major. 4-in. pots.....	1.00	8.00
*Anemone Japonica. A fine stock, not of the usual winter killed sort frequently sent out, but vigorous growing plants from 3-in. pots.			Cassia Marylandica. Strong, 1-year old.....	.75	6.00	Hemerocallis Dumortieri. 4-in. pots..	.75	6.00
*Anemone Japonica. Semi-double, rosy carmine.....	.75	6.00	Cerastium Tomentosum. 3-in. pots..	.75	6.00	Fulva. 4-in. pots.....	.75	6.00
*Alba. Large, pure white.....	.75	6.00	*Ceanothus Gloire de Plantiers. 4-in. pots.....	2.50	10.00	Flava. 4-in. pots.....	.75	6.00
*Lady Ardilaun. Large single white.....	.75	6.00	*Centaura Montana Alba. 4-in. pots.....	1.25	10.00	Kwanon fl. pl. 5-in. pots.....	1.00	8.00
*Prince Henry. New double, deep pink.....	2.00	15.00	*Cephalaria Alpina. 4-in. pots.....	1.00	8.00	Middendorfi. 4-in. pots.....	1.00	8.00
*Queen Charlotte. Semi-double, La France pink, the finest of all.....	.75	6.00	*Tartaria. 4-in. pots.....	1.00	8.00	Thunbergi. 4-in. pots.....	1.00	8.00
*Rosea Superba. Silvery rose; new.....	1.00	8.00	Chelone Obliqua Alba. 4-in. pots..	2.00	15.00	Aurantia. 5-in. pots.....	3.50	25.00
Anemone Pennsylvanica. 3-in. pots..	.75	6.00	*Chrysanthemum Maximum Triumph. 4-in. pots.....	.75	6.00	Major. 5-in. pots.....	3.50	25.00
Aquilegia Blanda, Caryophyllodes, Chrysantha, Chrysantha Alba, Californian Hybrids, Giandulosa Major, Nivea Grandiflora, Skinneri, and Vulgaris Flore Plena. Strong; 4 in. pots.....	.75	6.00	*Burbank's Shasta Daisy. 2 1/2-in. pots.....	.80	4.00	Florham. 5-in. pots.....	.75	6.00
Cerulea 3-in. pots.....	.75	6.00	*Cimicifuga Acerinum. Strong roots 2.00	15.00		Heesperia Matronalis. 4-in. pots.....	.75	6.00
*Prince Henry. New double, deep pink.....	.75	6.00	*Racemosa. Strong roots.....	1.00	8.00	Heuchera Alba. 3-in. pots.....	1.00	8.00
*Flore Plena. 3-in. pots.....	.75	6.00	*Simplex. Strong roots.....	3.50	25.00	Hibiscus Militar. Strong, two-year.....	.75	6.00
Armeria Maritima Alba. 3-in. pots..	.75	6.00	*Clematis Davidiana. Strong, one-year.....	.75	6.00	Moscheutos. Strong, two-year.....	.75	6.00
Splendens. 3-in. pots.....	.75	6.00	*Recta. Strong, two-year.....	1.50	12.00	Crimson Eye. Strong, two year.....	.75	6.00
Artemisia Abrotanum. 4-in. pots....	.75	6.00	Integrifolia. Strong, two-year.....	1.25	10.00	*Hypericum Moserianum. 3-in. pots..	1.00	8.00
Purshiana. 4-in. pots.....	.75	6.00	*Coronopsis Lanceolata Grandiflora. Strong. Heavy 4-in. pots.....	.75	5.00	*Iberis Correafolia. 3-in. pots.....	1.25	10.00
Stellariana. 3-in. pots.....	.75	6.00	*Delphinium Belladonna. Very rare, strong plants.....	2.50	20.00	*Sempervivens. 3-in. pots.....	.75	6.00
*Asclepias Tuberosa. Strong one-year-old roots.....	.75	6.00	*Chinensis. Blue. Strong plants..	.75	6.00	*Fl. pl. 3-in. pots.....	1.25	10.00
*Asters. Hardy Alpine varieties. 3-in. pots.....	.75	6.00	White. Strong plants.....	.75	6.00	Incarvillea Delavayi. Heavy. 3-year.....	1.50	12.00
*Asters. Hardy Michaelmas varieties as under. 3-in. pots.....	1.00	8.00	*Formosum. The most popular. Strong plants.....	.75	6.00	Inula Britannica. 4-in. pots.....	.75	6.00
Amellus Bessarabicus. Lilac blue. 12-in. Elegans. Large light blue flowers. 18-in. Amethystina. Amethyst blue. 3 ft. F. W. Burbridge. Bright, rosy lilac of large size. 3 1/2 ft. Levis. Light blue. September and October. 4 ft. Langifolia Formosissima. Deep lilac, shaded purple. 4 ft. Mad. Soynouse. Bright, rosy lilac. 15-in. Mrs. F. W. Raynor. Light purplish crimson. 3 ft. Rosea. Bright rose colored. 4 ft. Ptarmicoides. White. Useful for cutting. 18-in. Robert Parker. Large, lavender blue. 4 ft. Snowflake. Pure white, of small size, but freely produced. St. Brigid. White tinted with blush. 4 ft. Thos. S. Ware. Large, light rosy lilac. 3 1/2 ft. Top Sawyer. Delicate soft blue. 4 ft. White Queen. Large, broad petaled, white. 3 1/2 ft.			*Sulphureum. Strong plants.....	2.00	15.00	Floribunda. 3-in. pots.....	1.00	8.00
			*Dianthus Barbatus (Sweet William). Strong 4-in. pots.....	.75	6.00	Giandulosa Grandiflora. 3-in. pots..	1.00	8.00
			*Latifolia Atrooccinea. 2 1/2-in. pots.....	.50	4.00	Oculus Christi. 4-in. pots.....	1.00	8.00
			*Dictamnus Fraxinella Alba. Strong plants.....	1.25	10.00	*Japanesae Iris. 24 choice named varieties.....	1.50	10.00
			*Rubra. Strong plants.....	1.00	8.00	*Choctaw mixed.....	1.00	8.00
			Dielysia Formosa. Strong 4 in. pots..	1.00	8.00	*Sibirica Orientalis.....	1.00	8.00
			*Digitalis.....	.75	6.00	*Pseudo Acorus.....	1.00	8.00
			*Gloxiniiflora. Strong 4-in. pots....	.75	6.00	*Lychne Chalcedonica. 3-in. pots..	.75	6.00
			*Lanata. Strong 4-in. pots.....	1.00	8.00	*Alba. 3-in. pots.....	.75	6.00
			*Doronicum Cusid. Strong 3-in. pots..	1.00	8.00	*Carnea. 3-in. pots.....	.75	6.00
			*Excelsum. Strong 3-in. pots.....	1.00	8.00	*Fl. pl. 3-in. pots.....	2.00	15.00
			*Echinops Ritro. Strong 4-in. pots..	1.50	12.00	Hasageana. 3-in. pots.....	.75	6.00
			Sphaerocephalus. Strong 4-in. pots..	1.50	12.00	Dioica Rosea. 3-in. pots.....	.75	6.00
			Epimedium in variety. Strong plants.....	1.50	12.00	Semperforens Fleissiana. 3-in. pots.....	1.25	10.00
			*Eryngium Amethystinum. Strong 4-in. pots.....	1.50	12.00	*Viscaria Splendens. 4-in. pots..	1.00	8.00
			*Erigeron Coeruleus Grandiflorus. 3-in. pots.....	1.25	10.00	*Lysimachia Clethroides. 4-in. pots..	.75	6.00
			*Glabellus. 3-in. pots.....	1.00	8.00	*Lythrum Roseum Superbum. 3-in. pots.....	.75	6.00
			*Glaucus. 3-in. pots.....	1.00	8.00	Mertensia Virginica. 4-in. pots.....	1.00	8.00
			*Speciosus. 3-in. pots.....	1.00	8.00	Monarda Didyma. 3-in. pots.....	.75	6.00
			*Eupatorium Ageratoides. 4-in. pots..	.75	6.00	Rosea. 3-in. pots.....	.75	6.00
			*Coelestinum. 3-in. pots.....	.75	6.00	Splendens. 3-in. pots.....	.75	6.00
			*Feverfew Little Gem. 2 1/2-in. pots..	.60	4.00	Fistulosa Alba. 3-in. pots.....	.75	6.00
			*Gypsophila Paniculata. Strong, 1-year-old.....	.75	6.00	*Myosotis Palustris Semperforens. 3-in. pots.....	.80	4.00
			*Fl. pl. New.....	5.00		*Alpestris Grandiflorus. Clumps..	.80	4.00
			Acutifolia. 3-in. pots.....	1.00	8.00	*Roseum. 4-in. pots.....	1.00	8.00
			Cerastoides. 3-in. pots.....	1.00	8.00	Minus. 4-in. pots.....	.75	6.00
			Repens. 3-in. pots.....	1.00	8.00	Thermopsis Fabacea. 4-in. pots.....	1.25	10.00
						Tricyrtis Hirta. 5-in. pots.....	1.00	8.00
						*Valeriana Coccinea. 4-in. pots....	1.00	8.00
						*Alba. 4-in. pots.....	1.00	8.00
						*Officinalis. 4-in. pots.....	1.00	8.00
						Veronica Incana. 3-in. pots.....	.75	6.00
						Maritima. 3-in. pots.....	.75	6.00
						Prostrata. 3-in. pots.....	1.00	8.00
						Pectinata. 3-in. pots.....	1.00	8.00
						Rosea. 3-in. pots.....	1.00	8.00
						Rupestris. 3-in. pots.....	1.00	8.00
						Spicata. 4-in. pots.....	1.00	8.00
						Virginica. 4-in. pots.....	1.00	8.00
						Viola Cornuta or Tufted Pansies..	.50	4.00
						Wallflowers. 4-in. pots.....	1.00	8.00
						Yuca Filamentosa. 2-year-old.....	1.25	10.00

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsmen and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 669.

News of the Week in Brief.

A company has been organized near Baltimore to grow peonies on an extensive scale.

Nearly all the florists' clubs in the country are making arrangements for their annual outings.

The decoration of the canines with flowers was a recent feature of a San Francisco dog show.

Southern California is to have a laboratory and experiment station for the study of diseases of plants.

Fadeless flowers (Burbank's and others) are discussed on page 679.

President Vaughan of the S. A. F. O. H. has written a letter protesting against the proposed free distribution of trees by the Civil Committee of Pasadena, Cal.

There is yet time for all lovers of the sweet pea to send in their mites in aid of the Eckford Testimonial Fund.

Our London correspondent suggests that our American growers give more attention to the new and improved daffodils. There's money in them.

A subscription of \$5 has been received by this office to be applied toward the proposed "Paul Jones Memorial Fund." C. S. Macnair, of Providence, R. I., has set the ball a-rolling.

Dr. Robert T. Jackson, an authority on peonies, made a very interesting address on these popular plants before the Boston Gardeners and Florists' Club, part of which appears in another column.

The Department of Agriculture, Washington, D. C., has ordered that commencing July 1 next, two-ounce samples of all importations of 100 pounds, or more, of grass, clover, and forage plant seeds, be sent to its laboratory by customs officers.

Much concern is being felt by his relatives and many friends over the mysterious disappearance of Otto Kroeschell, of Kroeschell Bros., boiler manufacturers, Chicago. A reward of \$250 is offered for information that will lead to his whereabouts.

The smoking of dried chrysanthemum petals has been recommended by an English medical officer as a "pleasant substitute for tobacco." An epileptic patient is said to have been wonderfully benefited by this form of substitution for My Lady Nicotine.

The huckleberry branches are being highly spoken of by Cleveland (O.) decorators who have used them. Illal storms have been quite frequent throughout Iowa and other Western States the past week. Secretary John G. Esler says these are the best ads. the F. H. A. gets.

What do you think of the repeated suggestion that the S. A. F. give its medal to deserving workers who have enhanced horticulture by the production of new creations and other meritorious means? An S. A. F. Medalist in Horticulture would sound as well as a V. M. II.

Society of American Florists and Ornamental Horticulturists.

Railroad Rates to Washington Convention.

The Trunk Line Association has made the usual reduced rate to the Washington convention of one and one-third fare for the round trip. The Trunk Line Association territory includes the States of New York, Pennsylvania, New Jersey, Maryland, West Virginia, and a portion of Virginia. Following the granting of this concession by the Trunk Line Association, application has been made to the New England, Central, Southeastern, Southwestern and Western Passenger associations for a similar reduction. As soon as action has been taken by these associations, due announcement will be made accordingly.

WM. J. STEWART,
Secretary.

Heroes vs. Horticulturists.

"There has been a class of men whose patriotic affection or whose general benevolence have been usually defrauded of the gratitude their country owes them: these have been the introducers of new flowers, new plants and new roots. * * * Monuments are reared and medals struck to commemorate events and names which are less deserving our regard than those who have transplanted into the colder gardens of the North, the rich fruits, the beautiful flowers, and the succulent pulse and roots of more favored spots; and, carrying into their own country as it were another Nature they have, as old Gerarde well expresses it, 'labored with the soil to make it fit for the plants, and with the plants to make them delight in the soil.'"

So wrote the elder D'Israeli in his "Curiosities of Literature," many years ago. The same indifference, so far as Governmental recognition of the creators and introducers of new plants, etc., is concerned, exists to-day, although the horticulturist and the benefits he is bestowing upon mankind are now being "medalled," though not yet "monumented," by societies devoted to scientific pursuits and to the development of his own particular industry.

"Peace hath its victories, no less renowned than War," and among the many and varied institutions tending to promote peace and happiness none plays a more important part than the practice of the art and craft of horticulture. Why, then, should not Governments reward the labor of the deserving horticulturist with medals, and communities erect monuments to his memory, equally with those who have gained renown in other arts and professions? In the pursuit of his calling, there is probably no public benefactor who receives less pecuniary benefit from his achievements than he; and that is all the more reason why his country should show its gratitude for what he has done.

But the horticulturist has always been a modest man, proud and thankful of the least recognition. The same author cites as an example of that modesty the case of Peter Collinson, a botanist, "to whom the English gardens are indebted for many new and curious species which he secured by means of extensive correspondence in America," who was highly gratified when Linnæus baptized a plant with his name. Said Collinson: "Something, I think, was due to me for the great number of plants and seeds I have annually brought from abroad, and you have been so good as to pay it by giving me a species of eternity, botanically speaking, that is, a name as long as men and books endure." And, adds D'Israeli, "such is the true animating language of these patriotic enthusiasts."

Our object in calling attention to the foregoing is, more particularly, to recall the excellent suggestion made by ex-President John Burton in one of his addresses to the S. A. F. O. H., to the effect that that organization bestow its medal on the men who have, by their skill and perseverance, enhanced American horticulture with new creations and by other meritorious means. It seems to us that such recognition would have its value in more ways than one; and no more fitting time to begin the medal distribution could be selected than the year in which the S. A. F. shall have attained its majority—in 1906—in commemoration of which such an act would be well in keeping. The Royal Horticultural Society of England has adopted this method of rewarding work well done. Our own national organization would, we feel sure, make no mistake in emulating the example of its English prototype.

And we hope, too, the day is not far distant when monuments shall be erected, in fitting places, either by the nation or communities, to perpetuate the memory of men whose untiring and, in a great measure, unselfish work, has added so much to the pleasure, enjoyment and amelioration of the great mass of the people—among peaceful victories, the greatest.

Funny, Isn't It?

Our esteemed and beautifully pictorial contemporary, The Garden Magazine, in its June issue, has an article on "Unconventional Veranda and Window Boxes," accompanied with views of subjects which, it is said, provide "something better than the stereotyped lot of stuff most people buy from the local florist." In one instance, *Grevillea robusta* is recommended for its "flowers," as a window plant. "Ferns may be transferred from the woods," it is suggested, and "plants from the garden. Uncommon kinds can be ordered from the catalogues of large dealers in plants." But, it is stated, plants purchased from the local florists "cost ten cents each, and the dimes count up fast. This is why most of the window boxes that you see are conventional affairs, containing only a few plants that every one knows. Nearly all the accompanying pictures show originality and imagination. And by exercising a little ingenuity it is possible to reduce the expense to nothing."

Funny as it may seem, hardly a plant named by the writer of the article as suitable for the purpose in question, the effects from which show "originality and imagination," but what is used by florists in their conventional window box fillings. One wonders, too, why a "high class," gardening periodical, soliciting advertising from the florist trade, should seek to mould public predilection, horticulturally, to the extent of reducing the expense of plants for window boxes or any other form of home decoration, to "nothing."

The Yearbook of 1904.

The Yearbook of the Department of Agriculture will be ready for distribution during the latter half of June. A limited supply will probably be placed in the hands of Senators, Representatives and Delegates about June 1.

The book is made up of three parts: The report of the Secretary of Agriculture, 118 pages; special articles covering the chief lines of agricultural study during the year, 420 pages; and the appendix, made up of a directory of persons in charge of agricultural interests, of reviews of agricultural conditions, and of agricultural statistics, 204 pages. A full index of the three parts, in one alphabet, covers thirty-four pages more, bringing the total number of pages to 776. The volume is, as heretofore, well illustrated. It has seventy-five plates, of which sixteen are lithographs and fifty-nine half-tones, and there are sixty-four text figures. The special papers number thirty-three, and all but two were prepared by persons in the employ of the Department. Those of more or less interest to our readers are:

"The Relation of Plant Physiology to the Development of Agriculture," by Albert F. Woods; "Growing Crops Under Glass," by B. T. Galloway; "Fruit Growing," by M. B. Waite; "New Citrus Creations of the Department of Agriculture," by Herbert J. Webber and Walter T. Swingle; "The Relation of Birds to Fruit Growing in California," by F. E. L. Beal; "Sugar-Beet Seed Breeding," by J. E. W. Tracy; "Some Uses of the Grapevine and Its Fruit," by George C. Husmann; "Promising New Fruits," by William A. Taylor; "The Annual Loss Occasioned by Destructive Insects in the United States," by C. L. Marlatt.

Of the edition of 500,000 copies of the Yearbook provided for by law, 470,000 are subject to the orders of Senators, Representatives and Delegates in Congress, furnishing about 1,000 copies for each member. The Department of Agriculture receives only 30,000 copies, a supply not nearly sufficient for regular active correspondents and others directly in the Department service. For this reason many correspondents apply to Senators and Representatives, and meet a courteous and usually favorable response.

The Eckford Testimonial.

Editor Florists' Exchange:

Enclosed please find \$2, being my mite to swell the Eckford Testimonial Fund, and hoping to see it increase faster than in the past.

I feel much interested in this matter, as I served time with Mr. Eckford on the estate of Lord Radnor, at Colleshill in Berkshire, Eng., for three years; and many a time I have helped him prune and tie his seedling dahlias after work hours. Mr. Eckford was a thorough all-round gardener and plantsman.

GEO. H. ROWDEN.

Wallingford, Conn.

[We are much obliged to Mr. Rowden for his interesting letter. Subscriptions of 25c. and upwards to the fund will be gladly received and duly acknowledged. All growers and lovers of the sweet pea in America should be represented in the subscription list. Send in your subscriptions early, please.—Ed.]

Subscriptions acknowledged.

The Florists' Exchange.....	\$10
Burpee, W. Atlee, & Co.....	10
Morse, Lester (of C. C. Morse & Co.), direct to secretary of National Sweet Pea Society, England.....	25
Rowden, George, Wallingford, Conn.....	2

Obituary

A. T. Stearns.

Albert Thomas Stearns, president of the A. T. Stearns Lumber Company, of Boston, who died on April 9, 1905, at the age of nearly eighty-four years, was a conspicuous example of the business man of the old school. Born in Billerica, Mass., he learned the lumber business in his father's mill. As a boy he constructed a complete miniature sawmill, sawing his diminutive logs by means of the power developed by himself from a nearby brook, just as his father sawed his greater logs in the larger mill on the river bank.

After attaining a business age his first mill was built at Waltham, Mass. This he afterward sold, determined to locate within reach of a larger field for his enterprise. Attracted by the greater possibilities of a location on tidewater, and quick to perceive the future advantage of deep water in the handling of lumber which he then foresaw must come from ever increasing distances in vessels always growing larger and of greater draught, he acquired property at Neponset, near the mouth of the Neponset River. This is now a portion of the city of Boston, and here he established the present business in 1849, fifty-six years ago.

Mr. Stearns, writes Frederick C. Moseley, was ever a pioneer in his chosen line, the first to recognize a need and the first to supply it. He knew his business from the bottom to the top, and he also knew what his customers wanted. If a new wood, he found it for them; if improved manufacture, he would build the necessary machinery to supply the need. An inventor himself, he was also quick to secure the inventions of others whenever by so doing he could furnish his customers with material, either of better quality or at a reduced cost. He was the pioneer in the introduction of cypress as a general building wood in the North, and the mills of the Cypress Lumber Company, at Apalachicola, Fla., from which much of this wood has come, were established by him in 1883, and he was president of this company also until his death.

As a boy and man he was of tireless energy and scrupulous honesty. Always just, he expected and received justice from others. Despite his many years he had been the active and efficient head of the business which he founded until two months before his death, when he left home for his annual vacation in the South.

Mrs. Agnes Dunkley.

Mrs. Agnes Dunkley, whose death from heart failure was recently recorded in this column, was the widow of the late Joseph Dunkley, of Kalamazoo, Mich. She was born in Grand Rapids, Mich., July 4, 1847, and married in 1878. Seven children were born of the union, five of whom are living—Myra, Clara, Laura, Charles and Benjamin; also two stepsons, Robert Dunkley, Grand Rapids, and Samuel J., president of the Dunkley Celery Company, Kalamazoo. The funeral was held Saturday afternoon, April 26, at the house, the Rev. Gelston, pastor of the First Presbyterian Church, of which Mrs. Dunkley was a member, officiating. Burial was in the family lot at Riverside Cemetery. Several lots of flowers were sent by local and outside florists, by the Elks, and others. The business will be continued under the same name as at present—The Dunkley Floral Company.

Michael Curley.

Michael Curley, florist, Hyde Park, Mass., aged 61, died May 11, 1905, at the local emergency hospital as a result of a fall down stairs Wednesday morning at his home 27 Sunnyside street, whereby he sustained injuries to his skull. Mr. Curley was born in Ireland and had been a resident of Hyde Park for 25 years. He was a Civil war veteran and a member of Timothy Ingraham Post, No. 121, G. A. R., which he joined September 7, 1885. He enlisted October 28, 1861, at Staten Island, serving to the close of the war. He participated in the battles of Yorktown, Williamsburg, Fairfax, Malvern Hill, Seven days' battle, Chantilly, Second Bull Run, Fredericksburg, Chancellorsville, Gettysburg and Wapping Heights. His wife died a few months ago.

George N. Rider.

George N. Rider, a florist of Dunkirk, N. Y., died May 8, after a month's illness, at the age of 73 years. Besides a widow, he leaves four children.

OUR READERS' VIEWS

Paul Jones Memorial Fund.

Editor Florists' Exchange:

Herewith find check for \$5 as a nucleus of a "Paul Jones Memorial Fund," as per the letter in your issue of May 14. I trust the idea will rapidly take hold.

C. S. MACNAIR.

SUBSCRIPTIONS ACKNOWLEDGED:

Macnair, C. S. \$5.00

To the Lady Bowlers.

Editor Florists' Exchange:

The committee of the Ladies' Bowling Team would like to hear from all teams that will take part in the contest during the S. A. F. O. H. meeting in Washington, D. C., in August, as well as from individuals, so that the committee can make the necessary arrangements. The prizes will be numerous and the contest will be a record breaker. Two valuable prizes, so far, have been offered, one of \$50, another of \$40. Please communicate at once with,

F. H. KRAMER.

916 F St., N. W., Washington, D. C.

Among Cemetery Florists Near New York.

While visiting recently some of the florists whose chief business is to plant and care for lots in Greenwood Cemetery, Brooklyn, N. Y., several remarked that it was gradually becoming more difficult to do a profitable business in that line on account of the restrictions the cemetery authorities are placing upon the lot owners and the gardeners who do the planting. A recent order, which limits the raising of any mound more than three inches above the ordinary level of the plot, also prohibiting the use of any tall plants on the mounds, would seem at first glance a rather stringent rule, and anything but conducive to the welfare of the florists who cultivate plants for the cemetery. Believing that the subject was of interest to a large number of the craft, we called upon Eugene Cushman, the superintendent of Greenwood Cemetery, who freely explained the workings of the Cemetery Association in regard to the planting of graves, etc., and we came away convinced that the florist business around Greenwood will not be injured, or crippled, by any rulings that the cemetery authorities have put into force.

Those who manage such a property as Greenwood is, have a great many things to contend with and to provide for, that an outsider would never realize. It is with the idea of keeping the cemetery always beautiful, and according to each lot owner his just rights, that some restrictions have to be made as to what shall or shall not be planted on the cemetery lots.

Some people express a desire to plant a small pine tree in their lot; others will plead to place a maple or some other forest tree such as would soon overshadow and spoil the lots in their immediate neighborhood; and the cemetery as a whole would, before many years, be a kaleidoscope of mixed planting that would become an eyesore; and it is only by well directed restrictions that this "silent city" can retain its present beauty.

The association keeps a large force of help, and is continually doing a lot of permanent planting. The choicest of trees and shrubs are selected, and tended with the same care as is given those on any private estate. We may remark in passing that the pay-roll for 1904 amounted to something over \$135,000, from which one can easily see that if the cemetery authorities are willing to spend such a sum as that, they are more than willing that each lot owner will do his share toward the general scheme by placing suitable plants and shrubs whenever possible.

While it has been decreed that mounds may not be raised more than three inches above the common level, there has been no limit set as to the variety of soft-wooded bedding plants to be used, so there will be no diminution in the demands for such stock.

In the planting of trees and shrubbery, however, the authorities demand that permission be granted by the superintendent. Applicants must specify on blanks and diagrams furnished for that purpose by the association, just what is desired to be planted, and the exact position the shrubs or trees will occupy. Such trees as willows, allanthus, althaea, lilac and laburnum are prohibited; but permission is granted for the planting of spræas, syringas, azaleas, and rhododendrons.

James Weir, Jr., & Son, John Condon, John Wollmers and James Shanley, all have greenhouse establishments near the Twenty-fifth street entrance to Greenwood; and at the Seventh avenue entrance are the greenhouses of P. McGovern, Daly & Sons and a branch establishment of Charles Krombach, who also has a place at East Fourth street and Fort Hamilton avenue, besides several other establishments in close proximity to the cemetery, and a newly opened flower store at the Johnstown Flood attraction at Coney Island. Mr. Krombach is about as busy looking after his many places as it is possible for one man to be.

L. J. Krimmel has been located for four years near to Greenwood, and is building up a profitable business, confined entirely to cut flowers and bedding plants. F. Wegner & Sons is an old established firm here, which does considerable planting, outside of their large cemetery trade. This firm has full charge of the landscape and planting work at the Steeple-

chase Park, Coney Island—a park noted for its beautiful scenic effects and floral displays. Close by is the place of J. Kirschner, another old established florist, noted for his constant supply of all kinds of bedding and decorative plants. John Condon's Fort Hamilton avenue greenhouses are opposite the Greenwood entrance, and under the careful supervision of Fred Wiltshire are kept well filled with all classes of plants suitable for a first-class cut flower and bedding business. In close proximity is the mammoth establishment of James Weir, Jr., & Son. This is by far the largest growing establishment in the neighborhood, and everything is done on a large scale. Just now several houses are filled with dahlias and swainsonas, and a plentiful supply of flowers is in evidence for the near future.

In Holy Cross Cemetery, which is located in Flatbush, Brooklyn, N. Y., all kinds of soft-wooded bedding plants are used, but no one is allowed to plant trees or shrubs. The principal florists who supply this cemetery are: D. Y. Mellis, who in addition to his greenhouses, operates two stores; Braun & Friedman, and C. F. Wulff.

CLUB AND SOCIETY DOINGS

KENTUCKY SOCIETY OF FLORISTS.—The May meeting of this society was held at the office of Coenen & Bohman, Louisville, and as the meeting was in the nature of a farewell greeting to our popular and efficient financial secretary, Joseph Coenen, it was largely attended. Mr. Coenen is a charter member of the society, and for many years has held the office of financial secretary, but he has decided to take up his work in the West, and will leave us about the first of June. After the routine business, Mr. Coenen was presented with a cane as a token of the esteem and regard of the members. After adjournment a delightful "Dutch lunch" was served, and, with the cigars and small talk indulged in, certainly made the evening one long to be remembered. T. B. Rudy was elected to fill out the unexpired term of Mr. Coenen. A. R. B.

MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—At the last meeting of this society, held at Oceanic, Wm. Turner presented to Percy Hicks a beautiful silver cup, the first prize for an essay on "Fruit Culture Under Glass." H. Griffiths received the society's certificate as a second prize. The prize winners for an essay on "Chrysanthemum Culture" were announced, viz., Harry Griffiths first, and Joseph Kennedy second. So much time was taken up by the business matters of the society that it was decided to postpone the reading of the papers until the next meeting, at which time the prizes will be awarded to the winners.

The first annual rose show of this society will be held on June 16, in Red Men's Hall. B.

NEW JERSEY FLORICULTURAL SOCIETY.—Orchids are the prevailing flowers at the present time in the meetings of the New Jersey Floricultural Society. They were in force at the regular meeting held Friday, May 5, the exhibit of Julius Roehrs being in itself an object lesson. The most striking flower of the collection was *Lælia purpurata* var. William Barr, which was certificated. A *Cœlogyne pandurata*, exhibited by Mr. Henry Graves (grower, Edwin Thomas) received the society's first-class certificate. Mr. William Barr, among other orchids, had a *Catleya Mossia*, with forty-one blooms, which received 98 points. Other orchids were shown by Mr. William Runkle (grower President Kingsgrab), M. Hornacker, who displayed a new seedling carnation, Mrs. Lawson X pink seedling) which was certificated. The judges were: James Goodyear, Jos. A. Manda and A. Caparn. The topic for the evening was a talk on a Fall show which it was decided to have, if possible, in a large exhibition hall. Julius Roehrs, Jr., was placed in nomination for membership. J. B. D.

THE MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY held its regular meeting on the 10th inst. At the request of President Heeremans several members made exhibits in both plants and flowers. President Heeremans had a dozen magnificent specimen of *calceolaria*, grown in 6 and 8-inch pots. The committee on exhibits awarded a certificate of merit. By request of the members present, Mr. Heeremans promised to read a paper on the culture of these plants at our next meeting. A vase of carnations in variety from R. Vince was remarkably good for this time of year; it received cultural commendation. Well-done specimens of begonia and variegated hydrangea were shown by Mr. Edmichael, gardener to C. A. Work, Esq., receiving cultural commendation. A vase of mixed chrysanthemum blooms, something odd for this time of year, was put up by C. H. Totty. Baby Rambler roses in bloom from John Frazer, gardener to Gustav E. Kissell, Esq., were shown in fine form. The possibilities of this rose as a pot-plant were manifested by this fine display. Clucas & Boddington Co., Palisades, N. Y., sent by special messenger 16 varieties of hardy herbaceous perennials in bloom. They were interesting and instructive, just things that the florists on private estates need at this time of year. Robert M. Schultze and Andrew McKendry were elected members and Harry Green, David Pierson and William McCoy proposed for membership.

Our tenth annual flower show will be held in the assembly rooms, Madison, on October 26th and 27th next. Prospects for a grand exhibition look bright. The schedule is in press, and can be secured later on from E. Reagan, secretary, Morristown, N. J. E. R.

CHRYSANTHEMUMS

For Exhibition and Decoration.

(Concluded from page 642.)

VENTILATION.—A cool temperature is needed at all stages of growth; 45 degrees night temperature, with a rise of 10 to 15 degrees with sun heat, is sufficient. Keep the ventilators open night and day, at every opportunity, through the growing season. If very windy, it is better to close the windward side of the house, even if the temperature rises a little, for a heavy gust may strip off a good many leaves. After the blooms start to open, great care must be taken in ventilating, especially in damp localities like this. Ventilate always from the reverse side to the wind. Keep a crack of heat in the pipes, and the top ventilators open a little every night and damp day, keeping the side ventilators closed at night. This will prevent moisture from passing through the house and settling on the blooms midway.

After the final potting, constant attention must be paid to tying, fumigating, etc. Always try to keep this work ahead. Tie the plants often, and always tie loosely, never hitching the matting around the stake. Rub off all laterals before they get large, and keep the plants free from weeds and suckers. After the blooms start to open, the suckers can be left, as they carry off a good deal of surplus sap, cutting them off when drawn and spindly. Keep a sharp lookout for caterpillars, leaf worms and grasshoppers, especially when the buds are in the young state. If the house is inclined to be damp, spread lime about; this will dry up a good deal of moisture. Fumigate lightly and often with Aphs Punk or tobacco stems to keep down green fly and thrips. Syringe occasionally with tobacco water and soot water; and if mildew or rust appears, spray the plants with sulphide of potassium, 1 ounce to a gallon of water. For the spot or leaf disease spray with copper solution, or Bordeaux mixture, on bright days.

Feeding

By the beginning of July the pots should be getting full of roots, and light feeding must be afforded. Give the plants a light top dressing similar to the potting compost, using ichthemic guano or Clay's manure instead of Thompson's. When the roots have got hold of this, give a sprinkling of Clay's or ichthemic guano once a week and light waterings of clear liquid manure—cow, sheep, horse or soot water two or three times weekly, varying the feeding as much as possible. Never give manure to a dry plant; by doing so the plants are not benefited, and the roots will be burned. This will carry the plants all right till the buds begin to show, when feeding will have to be stopped for a little while. (Continued after taking the bud.)

Taking the Bud.

This part of the work is best done in the early morning, the growths then being easily rubbed out. Take off the laterals gradually, leaving one shoot to carry the surplus sap from the bud for a few days. It is wonderful what a difference this shoot makes to the bud, especially an early bud. In taking a number of early August buds of Nelle Pockett (about 40 in all) five buds were taken at one handling and marked. The remainder were taken as described. The five, without exception, were rough blooms; the others were as fine Nelle Pockett as anyone could wish to see. After the bud is taken keep tied straight.

Feeding (Continued).

As soon as the buds are of the size of a pea feeding must be continued, starting gently, and increasing in strength as the bud develops. Nitrate of soda is used by a good many growers as a stimulant at this time, but in a damp locality I prefer to do without it. Give Clay's manure and ichthemic guano, both dry and in water, and the farmyard manures as before. As the flowers show color, two or three applications of sulphate of ammonia, two ounces to three gallons of water, will give the flowers a brighter color and appearance. Feeding must be gradually stopped as the flowers develop, stopping entirely when the blooms are about one-quarter opened. Some varieties need less feeding than others. Experience and a knowledge of the different sorts is the only thing that will show a man the right amount of feeding to give.

Damping.

If the weather is warm and muggy when the flowers are opening put a light spray of whitening over the glass. This is cheap, easily applied, and if rainy weather sets in will wash off. Look over the blooms constantly and carefully, cutting out any damped or sealed petals, with a pair of light, clean scissors, being careful not to bruise the flowers in doing so. One bad petal, if left, will ruin the flower.

Cutting the Blooms.

The blooms should be cut in the early morning or evening. Strip off some of the lower foliage and split the stem 4 or 5 inches, to allow the water to run up freely. They should then be placed in large vases (as upright as possible) in a cool room for at least twelve hours before shipping.

Cutting the Blooms for Exhibition.

Blooms for exhibition should be cut 24 hours before packing. Tie a light stake to each stem before placing in the vases. This should be left on till staged, especially with weak-necked varieties. If any of the blooms for exhibition are early, cut them a couple of days before fully developed and place in tubs (half full of water) or vases, in a cool dry room or cellar. They will open up in about a week and keep in good shape for two weeks or more. The water in the tubs will not need changing very often if a few drops of ammonia or pieces of charcoal are put in. The stems should be cut occasionally, the floors damped on dry days and a crack of air kept on constantly. Be careful in handling the blooms (the least rub will bruise) and never crowd too many flowers in one vase.

Packing.

After all the work of growing fine blooms, it would be folly to rush the packing. Start early. Fasten a sheet of wax paper securely around the flower, and if traveling a distance fasten some damp moss to the bottom of the stem. Pack carefully in layers in



YUCCA TRECULEANA
Professor Massey Standing Near It

shallow boxes, using wads between each layer. The flowers can also be packed in boxes a little deeper than the required length of stem, tying securely to two sticks running crosswise.

Varieties and Buds.

Of the chrysanthemums grown in this country at the present day, the palm must be given to the Australian varieties. Most of the sorts sent out last year have come to stay, with probably the exception of Mrs. F. S. Vallis and Mary Inglis. These were not shown in good shape last year. Mildred Ware, too, may have to go on account of its weak neck. We growers in this locality did not have much chance of seeing this year's novelties, as very few were shown in New York and vicinity. As the seasons go by many of the old varieties are pushed out of place, though Golden Wedding, T. Carrington, H. J. Jones, Merza and Colonel D. Appleton still take a lot of beating in their respective classes.

The right bud is the foundation of a fine, well finished flower, and each variety has its peculiarity in this respect. Take Wm. Duckham, for instance; on the early August bud, the petals are narrow, of poor color and the flowers full of chickens. On the September bud it shows the eye; but get the bud from the 15th to the 20th, and it is grand. Nelle Pockett and C. J. Salter make grand, heavy blooms on the early August bud, but thin in petals on the later bud. As a class, however, the incurved are best on a late August or early September bud. Japanese, Japanese reflexed, reflexed and Japanese incurved from the middle to the 25th of August.

Most of the varieties take a round four weeks from the time the July break shows to the August bud. If they don't show signs of a break at the proper time, pinch out the tip of the shoot. By doing this you can generally get the bud at the right time. With the new varieties one must experiment a little to get the right bud.

Following is a list of the buds which have done best with us, and the time of July break:

Variety.	Bud taken.	July break about
Ben Wells	Aug. 25	Aug. 28
Brutus	Aug. 15	Mid July
Chelton	Aug. 5	Early July
Colonel Appleton	Aug. 20	Late July
C. J. Salter	Aug. 5	Early July
Dr. Enguehard	Sept. 1	Early Aug.
Donald McLeod	Aug. 15	Early July
Ethel Fitzroy	Aug. 18	Mid July
Frank Hannaford	Aug. 18	Mid July
F. A. Cobbold	Aug. 18	Mid July
F. S. Vallis	Aug. 15	Mid July
G. J. Warren	Aug. 18	Mid July
Godfrey's Pride	Aug. 18	Mid July
Golden Wedding	Aug. 20	Mid July
Goldmine	Aug. 28	Early Aug.
Guy Hamilton	Aug. 15	Mid July
Lella Filkins	Aug. 15	Mid July
Merza	Aug. 20	Mid July
Peter Kay	Aug. 18	Mid July
Maynell	Aug. 25	Late July
Mrs. T. W. Pockett	Aug. 15	Mid July
Madame Carnot	Aug. 18	Mid July
Mrs. E. Thirkell	Aug. 25	Late July
Mrs. G. Milleham	Aug. 15	Mid July
Mary Inglis	Aug. 15	Mid July
Mildred Ware	Aug. 15	Mid July
Nelle Pockett	Aug. 5	Early July
Timothy Eaton	Aug. 25	Late July
Mr. T. Carrington	Aug. 18	Mid July
Wm. Duckham	Aug. 18	3d week July
W. R. Church	Aug. 18	Mid July
Lady Hanham	Aug. 20	3d week July
Edith Pilkington	Aug. 18	Mid July
General Hulton	Aug. 18	Mid July
Henry Barnes	Aug. 25	Late July
Lord Salsbury	Aug. 20	Late July
H. L. Sunderbruch	Aug. 10	Early July

Specimen Bush and Trained Plants.

If large specimens are required, the cuttings must be struck very early; for standard, early November, and for the others, December and January. The plants must be repotted as required, some needing 12-inch pots. When growing freely, they should never be neglected for watering and feeding.

TRAINING.—When the plants are six inches high, pinch out the tip of the shoot, carrying three shoots up. When another six inches of growth has been made, pinch again and take up three shoots. When the shoots from this break can be handled, place a stake to each shoot, tying out widely and evenly. Keep on pinching the shoots in this manner till the beginning of July, keeping the plants staked out loosely. Pinching must be stopped now to allow the shoots to get strong. About the end of July or beginning of August, the plants will make a natural break, when three or four shoots should be left to each break. The plants will need to be trained, or staked, now in the shape required. Some growers stake them out evenly all around. They can also be tied to wire frames, fastened to the pots in cushion, pyramid or half pyramid shape. In the latter case, the shoots are tied to one face and are used for standing against walls. Tie the shoots so that the points are evenly distributed over the frame. The last tying should be done soon after the buds are secured, before the shoots get stiff. Standards should be grown on the single stem, to the required height, and then stopped. Three stakes should be placed at equal intervals around the pot and one in the center higher than the others. Secure a wire ring to the outside stakes and run wires from this to the center stake. As the breaks can be handled they should be tied down, pinching as for bush plants. For staking the flowers cut a large potato in two, scooping out the center to fit the stem, and tie securely. The stakes can be stuck in this. During the growing and flowering season the plants should be turned often to secure an even growth. Unless plenty of time can be spent on the plants, they are better left alone, as they are miserable looking objects if not grown and trained properly. The stronger growing Japanese and incurved which break freely, do fine as bush plants. Select those which do not have a tendency to show the eye. Pompons, also, do fine. Anemones and singles do well in small pots for edging groups, or as bush plants for decorative work, disbudding the anemones and leaving the singles and pompons in sprays. The varieties are numerous to select from. I have seen the following do well:

POMPONS.—Little Bob, Mlle. Marthe and its sports, Sœur de Melaine, Black Douglas, Eynsford Gem, Prince of Orange, Little Pet, and Primrose League.

SINGLES.—Earlwood Terra-cotta, Mary Anderson, Miss Rose, Admiral Sir T. Symonds, Eucharis, Kate Williams, and Daisy Brett.

ANEMONES.—Garza, Descartes, Juno, and Thorpe Jun.

JAPANESE ANEMONES.—Owen's Perfection, Sir Walter Raleigh, and W. W. Astor.

CHRYSANTHEMUM SMOKING.—The smoking of dried chrysanthemum petals was recommended some time ago by Gorton's medical officer as "a pleasant and harmless substitute" for tobacco. Now, according to a medical contemporary, chrysanthemum smoking has been responsible for a wonderful improvement in a victim of fifteen years' standing to frequent and violent epileptic fits, the result of chronic dyspepsia. Since his first smoke of chrysanthemum petals, in January last, the patient has exhibited remarkable signs of improvement. He not only walks now without the aid of a stick, but enjoys immeasurably better sleep, and, as the report states, "can even attend church." A run on chrysanthemum blooms for purposes of smoking may be anticipated.—The Gardening World.

Yucca Treculeana.

Our photograph of *Yucca Treculeana* comes to us from Professor Massey, of Raleigh, North Carolina, who says of it: "I send you herewith a photograph of *Yucca Treculeana*, which I planted on my lawn about fourteen years ago. It also includes my picture, and as I am 6 feet 1 inch tall, it will show the height of the clump very well. It is the only specimen in Raleigh. There are some fine specimens of *Y. recurva* and *Y. gloriosa* here; and a nice plant of *Yucca aloifolia variegata* at the college has stood out five Winters unburnt."

Yucca Treculeana is famed for its beauty and imposing appearance when in flower. It bears a dense panicle, differing in its comparative shortness very much from *gloriosa* and *recurva*. It is one of what are called tree yuccas, attaining a height of some twenty feet in time. Coming from Texas and North Mexico it is hardy at Raleigh, N. C., and all through the Southern States; and P. J. Berckmans, of Augusta, Ga., who has some very fine specimens of it, sent us a small plant for trial, believing it would prove quite hardy in Philadelphia. The smallness of the plant led to its being grown in a pot until a year ago, when it was planted out in Spring, and now, Summer of 1905, it proves alive and growing. But it must be said that it was under snow nearly all Winter. Still, as *gloriosa* and *recurva* are hardy here, there is hope that *Treculeana* will prove so as well.

The *Yucca filamentosa* is far too commonly seen alone in gardens. Counting the varieties of it, of *gloriosa*, *recurva*, *glauca* and others, there are as many as a dozen hardy yuccas one could grow in the Middle States. JOSEPH MEEHAN.

The Cultivation of Peonies.

(Robert Tracy Jackson, Cambridge, Mass., before the Boston Gardeners and Florists' Club.)

[This paper is an abstract, with some changes, of a fuller paper published in the Transactions of the Massachusetts Horticultural Society for 1904, Part I., p. 141-157.]

Herbaceous peonies are mostly of the easiest cultivation. Full sunshine, or at least a good exposure to the sun, is necessary, as they do not thrive in the shade, as under trees. The roots of trees or large shrubs are objectionable, especially elms, maples and lilacs, as absorbing the nourishment and water needed for the full development of the peonies. A location protected from the force of the wind is desirable where possible. Peonies will stand great variation as regards soil, but a heavy rather than a light sandy soil suits them best. Being strong feeders and vigorous growers, they should be given deep cultivation, eighteen inches to two feet; even more is recommended by some, but I have had good results with two feet. An abundance of barnyard manure should be worked well into the soil, especially before planting. If this manuring can be done some months previously, so much the better. Cow manure is best, when available. Peterson says that where propagation is the feature desired, peonies form more and better roots in light rather than heavy soil.

Where the soil is sandy, an addition of clay would doubtless be an advantage. In a heavy clay, which is the condition in my garden, a free use of sifted coal ashes and leaf mold, dug into the soil, works wonders in ameliorating and improving its tilth. Coal ashes contain little potash, and add practically nothing of chemical fertilizing ingredients to the soil, and nearly the same may be said of leaf mold, but both improve its mechanical condition, which is of the very first importance for successful plant growth. Sand and road scrapings, where available, are, of course, excellent for lightening heavy soil; stress is laid on coal ashes simply because their value is not usually appreciated, and in small gardens it is a convenient, available material, usually a waste product to be gotten rid of. My attention was called to the value of coal ashes by Dr. Henry P. Walcott, who has used it for many years in his garden. It is much used by English and Scotch gardeners for clay soil. In the Autumn cleaning of the streets in Cambridge the city carts collect great quantities of leaves, which they are very glad to dump on the grounds of willing citizens. These, in a single year, by turning once, make a fine, well decomposed leaf mold, ready to dig into the garden, and give room for a new lot of leaves.

Time to Plant.

It is emphatically best to plant peonies in the Fall. In the Spring they may be transplanted, if necessary; but it is undesirable to purchase stock at that time. Frequently plants purchased in Spring will not appear above ground the first year, as may happen with excellent stock coming from a distance; also in Spring there is more chance of the death of some plants than with Fall planting. If plants are received in Autumn too late for Fall planting, as is sometimes the case in importing, or if they are in questionable condition, if small enough, it is best to pot them and plunge the pots in a cold frame for the Winter. In Spring they can then be planted out without disturbing what roots they have made.

Peonies may be left in the ground without transplanting some eight or ten years, but longer is undesirable if best results are to be attained. It is sometimes stated that peonies may be left in the ground almost indefinitely, but this a mistake if good



LONICERA JAPONICA (JAPAN HONEYSUCKLE)

Photo by John F. Johnston

Japanese Honeysuckle (*Lonicera Japonica*).

This honeysuckle belongs to the climbing section of the family and is native of Japan and China. It is a vine which should be extensively employed, far more so than it already is, as few other subjects are better adapted for covering porches, arbors, or any kind of trellis work, also in forming a hedge or screen or where some kind of ground cover is required. Possessed of rapid growth it fills a niche where a quick-growing vine is required. The foliage might be termed half-evergreen, remaining fresh well into Winter. The white, and sometimes yellow, flowers are very fragrant and appear during the Summer months, also again in the Fall. The variety *L. aureo-reticulata* differs little from the species, only it possesses foliage which is most beautifully netted with yellow.

JOHN F. JOHNSTON,
Glen Cove, L. I.

results are expected. The finest flowers are to be had on moderate-sized, well-grown plants. If plants are left too long in the ground they sometimes die out in the center.

Propagation.

For purposes of propagation, plants may be advantageously taken up more frequently, every two or three years, divided with a large, sharp knife (a small carving knife is very good), so as to leave at least one bud with a portion of the root. Peony roots are stiff and unyielding, as well as brittle, so that they are very apt to be broken seriously in dividing. Harrison says: "Let them lie in the shade a few hours and wilt. This toughens them and does not hurt them a particle. You can immediately restore them to their plumpness by putting them in wet moss, or keeping in or planting in moist earth. This is very important." I have tried Harrison's method (last Autumn), only I left them out of ground for several days in cool weather. When the roots become somewhat flaccid and yielding, instead of rigid and brittle, they can then be easily divided without injury, even to solid old clumps. They will regain their original plumpness in a few hours' exposure in a damp medium.

The small plants, after division, may be set out in nursery rows, two feet apart, the plants being about ten to fifteen inches apart in the row, according to size. In cutting up, some roots will be broken off, and these may be planted with the rest, as more or less will grow from adventitious buds starting under these conditions. Actual observations of what proportion will grow from adventitious buds would be desirable, but do not exist, as far as I am aware. In propagating, if the plants are choice and are cut very fine, it is desirable to set a frame over them the first Winter. As Peterson says, herbaceous peonies of choice varieties may be propagated by grafting. This method is practiced to some extent; but I think is most undesirable for herbaceous plants. Grafting is not expected in such plants, and, if practiced, endless confusion in varieties may occur from the growth of adventitious buds from the stock. If this is done, they should be grafted on officinalis stock, or some other distinct species, so that shoots from the stock, which are likely to develop, will be strikingly distinct from those developed by the scion.

F. L. Temple in 1889 suggested the method of propagating herbaceous peonies by heaping up fine, rich soil over the crowns; under such conditions he found, by an accidental experiment, that roots and buds developed on the stems, which could then be cut off, leaving the crown intact. Timme, in a recent paper, recommends this method of deep burial as a means of propagation. According to him, the procedure is as follows: In Spring, before there is any growth above ground, a bottomless box or tub is placed over the plant and filled with nice porous soil to a depth of twelve or fifteen inches. The new growth will push through this layer of earth, developing its foliage and flowers above it. By keeping this soil enclosed in

the box fairly moist all Summer it will be filled with roots about October. The stalks are carefully cut away below the new stratum of soil, and cut into as many pieces as there are eyes provided with roots. These short lengths, planted to a depth of about two inches below the surface, will grow into fine stock in less time than will small root divisions. Timme says that this sort of layering succeeds well with nearly all herbaceous peonies.

Mallett, in England, also recommends this method of propagation, as he says " * * * cover the stools with eight inches of light soil made firm; growths will push through this in Spring readily enough, and will flower well, but in September the resting buds will be found on independent stems six inches long and with a mass of roots at their bases. These should be detached and planted forthwith, and the old soil cleared from the stools to admit warmth, when they will develop many buds hitherto latent, and which they always have in reserve. These will flower in the course of the season. * * * The flowering strength of the stools is but little impaired, but a vigorous thinning of several weakly growths may be necessary in the second season." "Strong double peonies will often form three or four resting buds on one rooting axis. These may be removed individually with a portion of the stem and its roots attached, potted, and grown on in a little warmth till planting time to encourage further root action." If this method proves as satisfactory as has been expressed, it may well be a most important means of propagating peonies. As Temple suggested it would probably be best to fill in the earth gradually rather than the whole depth at the start, but this is a matter for determination. Leaf mold being fine, light and retentive of moisture would, it seems, be good material for covering.

Starting New Beds and Transplanting.

In starting new beds or plantations it is important to plant peonies where they have not been grown for at least two or three years, as bits of roots are practically certain to have been overlooked in digging up the plants, and such growing make confusion with varieties. Of course, any given variety can be replanted in the same situation without risk of mixtures.

Peonies may be transplanted or dug up for division to best advantage late in August or in September, rather than in October or November, as the roots then have a chance to become established before cold weather. The crowns may be set about three inches below the surface; deeper planting is undesirable. For permanent planting peonies should be set three feet apart, or, if there is plenty of room, four feet is none too much. If set closer it will be difficult to get between the plants without injuring the blossoms. If plants are small when set out interspaces may be utilized for gladioli or any plants that will not cast appreciable shade or otherwise interfere with the peonies. Such plants had best be annuals, or of an annual char-

acter, as perennials would interfere with a free cultivation of the soil. In digging use a fork, not a spade, as less injurious to the roots of the peonies.

How to Plant.

For a limited number of peonies scattered planting is desirable, as allowing for the full development of each individual plant without loss of space. When grown close together the blossoms during a heavy rain or wind are apt to be beaten down and entangled with the flowers and foliage of adjacent plants. Where considerable quantities are grown beds are doubtless best, thus having all together, a convenience in watering and other cultural treatment; also the effect of mass in a bed is very fine.

Plants should be set three feet apart each way in a bed, or, better, four feet between rows if there is room to spare. Never having had this luxury of space I can affirm that three feet will do very well. Beds six or nine feet wide and of any convenient length cut in grass and carrying two or three rows of peonies respectively are very attractive and easily gotten at for handling or inspection. Such beds are good for roses, phloxes, irises or vegetables, which may be grown in rotation with peonies when they have to be taken up. Beds of this character are used extensively in the Botanic Garden of Harvard University, in Cambridge, and also in the large garden of a skillful lady horticulturist in Newport, where very best results and effects are attained. Large square beds with grass paths are used by Dr. Charles Sedgwick Minot, of Readville, Mass., in a large part of his extensive collection of some four hundred and fifty choice peonies, including two hundred and thirty-eight varieties. Such beds may be made of any convenient size, but beds for fifty or one hundred plants have certain advantages on account of the ease of keeping track of such numbers.

Disbudding—Manuring.

A peony well grown, or the same variety grown poorly or with average culture are very different. Unless really well grown one does not know what are the possibilities of this fine flower. Disbudding distinctly improves the quality of remaining flowers, especially on the larger varieties. In some varieties, however, where profusion of bloom is a feature, they may be left to advantage. The lateral buds should be removed as soon as they are large enough to handle, so as to throw all the strength into the leading bud. Proximity to a hose is an important feature when possible in planning the position of a peony bed, for the free use of water in the growing season is a great aid in producing fine flowers. Liquid cow manure, or other liquid manure used during the growing season, promotes a splendid vigorous growth and correspondingly superior flowers. Water from a cesspool is excellent. Sheep manure or other fine manure stirred into the soil about the peonies in Spring works well, being washed down to the roots by rain or watering. In the late Fall it is desirable to put four or five inches of barnyard manure above the crown of each plant. This may be done after the tops are cut off and the ground freezes hard; the manure being dug in in Spring.

Delicate colored peonies lose their color more or less in strong sunshine, so that for very best results they may be shaded to advantage. By shading I have retained delicate shaded pinks in flowers, which were entirely lost in flowers of the same variety grown a few feet away, but not shaded. Of course, opening flowers in the house has the same effect as shading, saving the delicate colors, and some of the finest blooms one sees are flowers thus opened off the plant.

Cutting the Blooms.

Peonies have a great mass of petals, at least the double ones, so that when picked there is a large surface for loss of water. Such being the fact, it is important that they be put into water as quickly as possible after cutting. The best method is to carry a pail or can of water into the garden and put the flowers instantly into water, not even waiting to cut a second bloom. Experiment has demonstrated that flowers thus instantly put into water will outlast flowers kept even a few minutes without water. This is especially important for flowers that are to be exhibited, or shipped to a distance. When a peony is on the plant there is a continuous flow of sap to the flower. On cutting, this flow being shut off, from the suction thereby inaugurated it is quite probable that air particles are sucked in. If this is true, such air particles would tend to obstruct the vessels, interfering with the succeeding flow of water. If cut peonies are to be shipped they had best be kept ten or twelve hours in water in a cool place, when they become surcharged with water and travel vastly better than fresh-cut blooms. The same principles as regards cutting doubtless would apply to most other flowers as well.

(To be continued.)

WINDOW GLASS.—The production of glass is being curtailed by the closing down of factories, and the end of the month will probably witness the going out of blast of most of the factories. This fact may prevent manufacturers making lower prices, though the low quotation of 90 and 40 per cent. discount by the American Manufacturing Company on the first three brackets has caused some low prices to be made by manufacturers of hand-made glass. Locally a slight improvement in demand is noticed. New York quotations are about as follows: First two brackets, single, 90 and 20 per cent. discount; all other sizes, single and double, 90 and 10 per cent. discount. Where jobbers are urgent to move stocks these quotations are sometimes shaded to a limited extent.—The Metal Worker.

CLUB AND SOCIETY DOINGS

(Continued.)

BOSTON GARDENERS AND FLORISTS' CLUB.

The regular monthly meeting of the club was held Tuesday evening, May 16, at Horticultural Hall, with an attendance of sixty, notwithstanding a rainy night. President Wheeler in opening the meeting announced, with regret, the inability of the secretary, W. N. Craig, to be present on account of the accident which happened him a few days ago, and called upon J. W. Duncan to officiate in that capacity pro tem.

On the exhibition tables were a very fine collection of troilius from Julius Heurlin, of the Blue Hill Nurseries. The varieties included *T. europæus*, *asiaticus*, *asiaticus orange globe*, and *asiaticus excelsior*. The latter variety is of Mr. Heurlin's own raising, and is a decided acquisition, being a medium-sized flower, of a distinct, bright orange color. Another rare plant exhibited by Mr. Heurlin was *Arnebia echioides*, the prophet flower, with its pretty yellow and spotted flowers. Wm. Sim, of Cliftondale, exhibited a vase of candytuft of excellent quality. Mr. Sim also announced that he would be pleased to have the club visit his place about the end of June to see the uses to which violet houses may be put in Midsummer.

tee of the American Rose Society would meet in Hartford, June 19, and accept the hospitality of our club.

A lively discussion took place on the subject of window flower boxes, and the president appointed a committee to devise ways and means of bringing this highly important matter strongly before the public. Hartford is admittedly a beautiful and prosperous city, and it was felt that the one thing necessary to make her the gem of Eastern cities was "the window box," skillfully planted and widely disseminated. It was the sense of the meeting that our commercial florists could easily do more to educate the public to the beauty and utility of window flower gardening. To show how universally flowers are used for this purpose in different parts of Europe, by rich and poor alike, one of the members gracefully emitted the following effusion which was received by the meeting with loud acclaim:

Ye bloom on the cottage, the cottager's pride,
The window looks cold with no flowers by its side;
Ye bloom on the palace, ye bloom on the hall,
Ye bloom on the top of the ruinous wall;
Ye bloom on the trellis, ye bloom on our bowers,
Ye carpet creation, ye beautiful flowers.

The following resolutions were passed on the death of Alfred Whiting, the veteran West Hartford florist, who passed away on May 5, at the ripe age of 81 years:

Resolved, That by the death of Mr. Alfred Whiting,



EFFECTS OF HAIL STORM, MAY 8, 1905, AT ESTABLISHMENT OF JOHN STAMM, HUTCHINSON, KAN.

Edward Macmulkin exhibited, for Louis Dupuy, Whitestone, L. I., two plants of *Crassula hybrida*, which were much admired. And, by the way, this is a plant that proved a great favorite last Easter. W. J. Downs showed a dish of strawberries of fine size and finish; and the H. A. Stevens Company a vase of carnations of the standard varieties.

Eight new members were elected, and with such encouraging meetings the club bids fair to have a membership of two hundred before the end of the year.

It is proposed to have a picnic, and suggestions were made for the committee to arrange for the same during July.

After the regular business the president, in a few well-chosen remarks, introduced the speaker of the evening, Dr. Robert T. Jackson, of Cambridge. Dr. Jackson's subject was the peony, and his paper, which was very entertaining and instructive to lovers of this flower, was listened to with the greatest attention. He strongly recommended early Fall planting as the best time to make a peony plantation, and said that the plant would do best if left in the same place for seven or eight years: He spoke of the different methods of propagation, labeling, etc., stating, that in cutting blooms it was very essential to the keeping qualities of the flowers to immediately put them in water. The quicker this was done the longer the flowers would keep. A lively discussion followed the lecture, participated in by Messrs. Rich, Cameron, Allen, Finlayson, Stevens, and others.

The president announced, that at the June meeting the club would be addressed by M. H. Walsh, of Woods Hole, on the rose. J. W. DUNCAN.

HARTFORD, (CONN.) FLORISTS' CLUB.—The regular meeting of this club was held Friday night, May 12. There was a large attendance. President Huss gave an interesting talk on Alpine auriculas and other perennials, of which he is a most successful grower. It was intimated that the executive commit-

tee of our Florists' Club, and a veteran horticulturist, we feel that the horticultural interests of Hartford have suffered a great loss. During Mr. Whiting's long, honorable and successful career he did much to advance the interests of horticulture in general, and as an estimable citizen and a man he held the respect and esteem of the entire community.

Resolved, That the sympathy of the Hartford Florists' Club be respectfully tendered Miss Helen Whiting in her bereavement, and the corresponding secretary is now instructed to forward to Miss Whiting a copy of these resolutions. A. C.

ST. LOUIS FLORISTS' CLUB.—The May meeting of the club was not well attended, the greenhouse men all being too busy. President Juengel occupied the chair, 13 members being present. Otto Koenig, manager of the chrysanthemum show this Fall, reported that the executive committee was meeting weekly and that the prospects of a successful exhibition were good; the preliminary list is ready for distribution. Mr. Koenig also made a plea for the subscribers to pay up, so that all the money could be in the hands of the treasurer by the first of June. F. C. Weber is treasurer of the committee. Two new applications for membership were presented—Edward Hicks and Henry Lorenz. The applications of F. W. Foreman, Henry Aul and George Augermueller were laid over until the next meeting. Messrs. Fillmore and Ammann will take the places of Messrs. Miller and Weber on the board of trustees until the latter two return from Europe. The club's picnic will be held in July, as usual, and the trustees were instructed to arrange for same and report their plans at the June meeting.

John Stiedel, Clayton, invited the club to hold its next regular meeting at his place, June 8. The invitation was accepted. The secretary will notify all the members when and where to meet to go in a body.

By the time the next meeting is held, the planting season will be over, and a large attendance is looked for. ST. PATRICK.

Review of the Market

NEW YORK.—The weather remains quite cool, and the flower business continues very dull. There is a large quantity of lilac in the city, and its unusual cheapness is the cause of its taking the place of a great many other flowers just now. Carnations are almost a glut, and while an occasional sale is made at decent prices, a great many flowers are cleared out at from 9c. to 50c. per 100. Roses are going lower than has been the case for a good many months. The quality in general is far superior to what is usually seen at this time of the year; mildew is conspicuous by its absence, yet there seems to be no outlet for the larger part of the stock excepting through the class of florists who cater to the sidewalk customers, and that means about 50c. per 100 for all grades, purchased in thousands lots. Outdoor lily of the valley is available at 25c. per 100; and the sale of the forced article is suffering to some extent thereby.

J. K. Allen is receiving the first peonies of the season, and they are coming in in good shape. Lilies continue plentiful; and the supply of gladiolus is on the increase.

Cattleyas have become so abundant that they are being used in quantity on window display in some of the Broadway retail stores. Canterbury bells, cornflowers, Spanish Iris and water-lilies are now included among the daily supplies, but the demand for these out of the ordinary subjects is only limited.

The supplies of smilax and asparagus are on the increase, and, as a consequence, prices are easier than they have been for some time.

BOSTON.—The market the past week has been very unsatisfactory; in fact, there has been so little demand for flowers that it might be said nearly everything is at a standstill. Stock is plentiful and piling up so that it has to be cleared out at unreasonable prices. Roses may be bought at from 1c. up, \$6 per 100 being considered a high figure. Carnations sell at from 50c. per 100, \$2 being top notch for most varieties. Lilies are a drug; they are hard to sell at any price. Lily of the valley continues unchanged, and sweet peas have dropped in value. Violets still may be seen, but only in limited quantities. J. W. D.

BALTIMORE.—The bottom has practically fallen out of business this week. Great quantities of stock are to be had almost at the purchaser's own price. Carnations have at times gone to 5c. per dozen, on the streets, and roses 5c. and 10c. per bunch; yet they move slowly. The only real demand is for peonies, which are selling at \$3 to \$5 per 100. The circus is in town, and will help to keep things quiet for a few days. The new city councilmen take their seats to-morrow (May 18). Orders seem scarce for this occasion even. The retailers are very blue; and when the growers get their returns, more of the same color will be in evidence.

CHICAGO.—Trade conditions the past week have been rather erratic, stock accumulating in the commission houses one day, with a dearth the next. The unprecedented wet weather was, no doubt, in a great measure, the cause of this. Local buyers were very light purchasers, on some days, finding but little call from their customers. The only stock that moved any way briskly was lilac, and other outdoor-grown flowers. Large quantities of these materials are now coming in, and the demand continues very good; the quality was never better, and consignors are realizing good profits.

The supply of American Beauty roses has diminished considerably; the demand for the better grades continues good, these now selling at from \$4 to \$5 per dozen. Other grades go at from \$4 to \$24 per 100. Bride and Bridesmaid are not arriving in such large quantities as heretofore, yet sufficient to meet all demands, with some to spare. Golden Gate of excellent quality and color is coming in, selling at from \$3 to \$8 per 100. Mme. Abel Chatenay never was better than at present, with the majority of growers, who realize good prices for this rose. Liberty, with several growers, is now in fine crop, and the quality is exceedingly good. Carnations are coming in freely, and while sales are not over brisk, in some cases good prices are realized. During Saturday and Sunday a scarcity seemed to exist, when extra good stock sold as high as \$3 per 100. At present writing very good carnations can be bought for \$2.

Sweet peas are seen in large numbers; in consequence, prices have taken a drop. Lilies are not now so abundant, but some very good ones are seen in some of the houses. Peonies have put in their appearance from several sources; the quality is very good, and a brisk demand seems to exist for them. Prices are from \$2 to \$8 per 100. Lilac is abundant. It is of excellent quality this year, selling very freely at from 15c. to 25c. per bunch, according to size.

R. J.

INDIANAPOLIS.—Growers and market florists are very busy planting, but are behind in filling orders on account of the continuous showers. Funeral work comes in spurts, but so far is not up to the standard of May. Quite a few decorations are booked for June. Stock is plentiful, but not satisfactory, as the major part of it is of second grade. The variety, too, is not large enough to meet the demands of customers who are continually requesting flowers impossible to obtain. A week or two more should give relief. Candytuft, feverfew, peonies, ten-week stocks and lilies will then be ready for the market in quantities.

Bridesmaid, Bride and Golden Gate roses are plainly showing the effects of warm weather. The best wholesale at \$6 to \$7 per 100; Mme. Abel Chatenay and Souvenir du President Carnot are in prime condition; select stock brings \$8 to \$10 per 100. Kaiserin Augusta Victoria are steadily improving in quality; the best wholesale at \$8 per 100. Good American Beauty are scarce, but poor, weak-stemmed ones are very plentiful. The best 36-inch American Beauty wholesale at \$3; 24-inch to 30-inch, \$5; 15 to 20-inch, \$1, and shorts, 50c. per dozen.

Fancy carnations are in demand at \$3 per 100; medium grades, at \$2 to \$2.50, are more than equal to the demand, and many go to waste on the growers' hands, as the commission houses can do but little with them.

Southern peonies are being received, selling at \$4 per 100. Cape Jessamine brings \$1 to \$1.25 per 100. Quantities of iris are in the market, but so far are of poor quality because of the rainy weather. I. B.

ST. LOUIS.—The wholesalers have experienced the worst glut in years this week. Everything is so plentiful and so cheap that it is a hard matter to quote prices. The retailers, at the same time, say they never saw trade so slow. They are buying stock of all grades almost at their own prices, and, of course, cheap figures prevail all over the city. Especially is this so with the downtown florists. Every one is trying to undersell the other, displaying signs in their windows, "Roses at 25c. and carnations at 10c. per dozen, or 15c. for the original bunches." The uptown florists are doing fairly good business with weddings, receptions and dinner decorations. Greenhouse men are, of course, busy at this time of the year with plants, as bedding is going on all over the city.

Some of the prices at the different wholesale houses are as follows: American Beauty, long, \$2 to \$3; next grade, \$1 to \$1.50; and shorts, 25c. to 50c. per dozen; Bride and Bridesmaid, fancy, 4c.; others from 1c. to 2c.; in 1,000 lots about \$5. Carnations, extra fancy, 1 1/2c. to 2c.; 50c. to \$1 for good blooms. Peonies are very plentiful at \$2 per 100. Callas and Harrisii lilies are down as low as \$5 per 100. Lily of the valley brings \$2 and \$3 per 100. A fine lot of sweet peas are coming into the market at 35c. and 50c. in 100 lots; \$3 per 1,000. Greens of all kinds are in plenty, at their usual price. ST. PATRICK.

WASHINGTON, D. C.—The cut flower business has decreased considerably this week; funeral work has been the principal standby. Roses of all sorts are becoming scarce. Carnations are showing the effects of the hot weather, and are much smaller and off color. Bedding plants are in demand and are realizing fairly good prices. American Beauty roses bring from \$3 to \$6 per dozen; the best stock of Kaiserin Augusta Victoria, Souvenir du President Carnot, Ivory, Golden Gate, Bride, Bridesmaid, Liberty and Meteor, \$1 to \$1.50; carnations, 25c. to 50c. per dozen; sweet peas are getting scarce; they sell at from 15c. to 25c. per bunch. Iris and peonies are coming in and are in demand. There is quite a call for pansy plants at 10c. to 20c. each. Such plants as geraniums, heliotrope, verbenas, petunias and coleus in variety bring from 75c. to \$1 per dozen. McC.

PROVIDENCE, R. I.—Along with other cities, we must add our word of prevailing quietness in the wholesale market, where prices have reached a minimum, such as 50c. to \$1 for common roses and 50c. for ordinary carnations. This cannot last much longer, for the crop is too abundant. In retail lines we cannot really complain, for the low market prices have enabled the trade to make a good margin from what was sold; even though the total business has been below a fair degree. Bedding plants have not yet received the full share of attention, and carnations are slowly coming forward in basket lots, but we expect a big demand to start in very soon. C. S. M.

CLEANED THEM OUT.—The one insertion of advertisement of Eastgold chrysanthemum sold all the stock available for April delivery. We are now ready for May delivery, and you may insert enclosed advertisement t. f. Mass. F. W. FLETCHER & CO.

Philadelphia.

News of the Week.

A meeting of the creditors of Robert Craig & Son was held Monday last. The only business transacted was the reading of the report of the assignee. The meeting adjourned to reconvene on June 15, this being the date when Robert Craig has promised to pay 50 per cent. to those creditors who have accepted that proposition. Mr. Craig stated to those present at the meeting that he had made such arrangements as he thought would enable him to make the promised settlement.

The old bowling club had its outing to Essington on Tuesday, when 20 of the members turned out and had a very enjoyable time. At this outing it was decided to organize a new bowling club for the encouragement of the game and the benefit of the Florists' Club, all the old officers being re-elected.

Hosea Waterer, seedsman of this city, with his family, sailed from New York on Tuesday on the Caronia for England, on a six weeks' trip.

D. T. Connor, agent for Lord & Burnham Company in this city, reports placing an order for an iron frame greenhouse, 20 x 60 feet, for H. O. Wilbur, Esq., Bryn Mawr, Pa.

H. Bayersdorfer & Co. are very busy now filling orders for Memorial Day goods. They have had an exceptionally heavy business in this line this year and orders are still coming in.

Pennsylvania Horticultural Society.

The meeting on Tuesday last was well attended. There was also a very good exhibition, in which were three large exhibits of hardy perennial flowers, all correctly labeled, which proved of interest to the members present. The new Nicotiana Sanderæ was shown by Mr. H. S. Hopper, John Dodds, gardener. This plant had many admirers. No doubt when planted out in a border, or massed, it will be very effective. The flowers are of a dull red color, but not fragrant, like the old white variety. The same exhibitor staged a collection of the Japanese peony (Ponia moutan). These were all good varieties and were much admired. The Conard & Jones Co., West Grove, Pa., made an exhibit of new roses, such as Baby Rambler, Etoile de France, a new red h. t., a new perpetual blooming climber not yet named, a good flower, pink in color, flowering in clusters; also several of the new rugosa hybrids, and a vase of the new canna Louisiana. Antoine Wintzer made an address at this meeting on new roses and the work being done by hybridizers. He spoke of the prominence being given to the work of Luther Burbank, and said that while he was doing some grand work, others were doing as good, but were not given such prominence. He mentioned the labors of Dr. Van Fleet, and spoke of some of his work on roses and cannas. The speaker then dwelt on the merits of some of Dr. Van Fleet's hybrids, and gave prominence to the production of the hybrid rugosa roses, such as New Century, Sir Thomas Lipton, and one yet under number, as all being great acquisitions. A special meeting for outdoor roses will be held on Thursday, June 8.

DAVID RUST.

St. Louis.

News Notes.

Recent visitors were: Mr. Hippard, of De Soto; J. M. Brunson, of Paducah, Ky.; F. J. Ries, Chicago, and Geo. M. Kellogg, Pleasant Hill, Mo. Arthur Ellison, in company with his father, have gone for a few weeks' trip through Southern Missouri. On their return Mrs. Ellison and daughter will leave to spend the Summer at the Northern lakes. J. F. Ammann, of Edwardsville, reports that during the recent big hailstorm he lost nearly 1,000 feet of glass, all single strength. The hail was not large enough to break the double glass. Mr. Ammann is fully insured. Fred C. Weber had a big decoration last week for the Knight funeral. The entire room had to be covered with smilax and asparagus.

The executive committee will meet again this week and try to settle the hall question. Any local or outside growers who have not yet received a copy of the preliminary list can have one by addressing Otto Koenig, 6471 Florissant avenue.

John Stiedel, who looked the picture of health at the club meeting, was reported very sick the last four days. At this writing he is somewhat better. His many friends in St. Louis will be glad to know that he is out of danger, and in a few days will be back to his regular work.

Bowling.

The members are not taking as much interest in bowling as at this time last year, and only seven were in attendance at the alleys last Monday night. They rolled five games. Kuchm was high man with 820; Beneke next, 819; Miller, 811, and Ellis, 802. R. Meinhardt, F. Meinhardt and Henry Lorenz came next, in the order named. ST. PATRICK.

Newport, R. I.

News Notes.

We are having a very backward season, and even now the trees have only just begun to break into leaf. Since my last writing we have had several days of rain which have done wonders to vegetation; it was drier than it has been any Spring for years, and these rains were indeed needed. Trade in all branches is very active; the seedsmen especially so.

F. L. Ziegler is having a special sale of crimson, white and pink Rambler roses at 50c. to \$1 each.

F. M. Smythe, of Wadley & Smythe, was over from New York last week. Very soon they will open their establishment in the Newport Casino for the Summer season.

S. W. Smith, of the T. W. Emerson Company, of Boston, Mass., was here for a few days last week. F. W.

Hail Storms.

MASON CITY, IA.—The Keith greenhouses were considerably damaged by a hail storm on May 7.

MUSCATINE, IA.—During a recent hail storm here the greenhouses of B. Kemper & Sons were damaged to the extent of \$300.

PERU, IND.—On May 10 a hail storm swept over this locality, doing great damage to fruit and breaking many greenhouse lights.

FORT MADISON, IA.—In a recent hailstorm Carl Boll had 58 lights broken in his greenhouse. J. M. Auge's loss was 48 panes. Both were insured.

KEWANEE, ILL.—Hamilton & Plummer lost 6,000 panes of glass in a hailstorm which occurred May 10. The loss is covered by insurance in the F. H. A. The storm was the most severe experienced in this locality.

CANADIAN NEWS

TORONTO.—Business has continued good, with most stock plentiful. Roses still keep up to a high standard, but prices at wholesale have fallen very low, except those for select stock. Dunlop is sending in some fine blooms of Mme. Abel Chatenay and American Beauty. All the retailers are showing nice Bride and Bridesmaid. Although carnations are not so abundant as they have been, those offered are generally of good quality.

Our public parks are now a blaze of color; many of the tulips are very fine, but a few of them are so poor that they look disgraceful.

All engaged in any way with nursery stock are very busy. The weather during the past week has been fine for planting, and thousands of shrubs and trees have been set out in our city. THOS. MANTON.

COMING EXHIBITIONS.

ST. LOUIS, MO.—The preliminary list of premiums, to be offered at the flower show to be held under the auspices of the St. Louis Florists' Club, November 7-10 next, has been issued. Otto G. Koenig, 6471 Florissant avenue, is manager, from whom copies of the schedule can be obtained.

ROSES

From 2 1/2 in. pots, grown cool and in best of condition, \$2.50 per 100; \$20.00 per 1000.

JOHN A. DOYLE, Rose Grower, Springfield, Ohio

ROSES

Bride, Bridesmaid and Golden Gate, extra strong stock, out of 3 in. pots, \$4.00 per 100;

JOHN C. HATCHER, Amsterdam, N. Y.

Grafted ROSE Plants

ON English stock, in 2 1/2 in. pots, Bride, Bridesmaid, Golden Gate, \$100.00 per 1000.

OWN ROOT STOCK

Bride, Bridesmaid, Golden Gate, in 3 in. pots, \$35.00 per 1000.

CHRYSANTHEMUMS

Dr. Enguehard, Mrs. T. W. Pickett, Cheltoni, Mrs. C. J. Salter.

Wm. Duckham, Alice Byron, Goldmine, Carlington, Yellow Jones, Yellow Easton, A. J. Balfour, Merry Christmas, W. Bonnaffon.

Transplanted cuttings from soil, \$4.00 per 100; Rooted cuttings from sand, 3.00 per 100.

Mutual Friend, Nellie Pickett, G. S. Kalb, Bergman, Mrs. J. Jones, Mrs. H. Robinson, Easton, White Ivory, Polly Rose, McArthur, Whildin, Halliday, Bonnaffon, Marion Henderson, Appleton, Golden Wedding, W. H. Lincoln, Mrs. Chamberlain, Pink Ivory, J. K. Shaw, Maud Dean, President Smith, Helen Blodgood, Glory of the Pacific, The Harriot, Intensity, Black Hawk.

Transplanted cuttings from soil, \$2.00 per 100; Rooted cuttings from sand, 1.50 per 100.

JAMES E. BEACH,

2019 Park Avenue, BRIDGEPORT, CONN.

READY NOW

Gen. MacArthur

The most prolific flowering Red Rose in the market to-day. Grows finely in same temperature as Bride or Bridesmaid, and will produce fully as many first-class flowers as either.

2 1/2 in. pot plants, own roots, \$10.00 per 100; \$80.00 per 1000.

Strong grafted stock, from 3 in. pots, \$12.00 per 100.

THE STORRS & HARRISON CO., PAINESVILLE, O.

Mention the Florists' Exchange when writing.

BABY RAMBLER

ON ITS OWN ROOTS

Strong, healthy, 2 1/2 in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000.

TEA ROSES Good assortment of varieties, \$3.50 per 100; \$30.00 per 1000. Strong, healthy plants.

Genista Fragrans

2 1/2 in., 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

CANNAS

We still have healthy, dormant roots, in Crimson, Yellow, Pink, Variegated Shades, Bronze Leaf Varieties. Also Orchid-flowering varieties. Send for our list and prices.

THE CONARD & JONES CO. WEST GROVE, PA.

Mention the Florists' Exchange when writing.

C. R. HILLS, GRAND RAPIDS, MICH.

AMERICAN BEAUTY, extra fine, 3 in. per 100, \$6.00

LA DETROIT, extra fine, 3 in. " 8.00

CHATENAY—Perle and Sunrise, 3 in. " 5.00

Cobaea Scandens, 2 1/2 in. per 100, \$2.00

Cobaea, extra fine, 3 in. " 4.00

Forget-me-nots, 2 1/2 in. " 2.00

Verbena, Mammoth, clean and healthy " 2.00

Alyssum, Little Gem, 2 1/2 in. " 2.00

Alyssum, extra fine, full of bloom, 2 1/2 in. per 100, \$2.00

Cuphea, 2 1/2 in. " 2.00

German Ivy, 2 1/2 in. " 2.00

Sheets Daisies, 2 1/2 in. " 2.50

Christmas Peppers, 2 1/2 in. " 2.10

Mention the Florists' Exchange when writing.

ROSE PLANTS

Own Root Plants, \$25.00 per 100.

Waban Rose Conservatories, NATICK MASS.

John N. May, Summit, N. J. Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON

JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

ROSES

Especially fine lot of Hybrid Perpetuals, Climbers and Ramblers.

Send for price list. Use printed stationery. We send it only to the trade.

JACKSON & PERKINS CO. NEWARK, N. J.

Mention the Florists' Exchange when writing.

ROSES

2 years old, 4 in. pots, 40 varieties, our selection, \$6.00

Heliotrope, Hardy Phlox, Fuchsias, \$2.50 per 100; Salvia, \$2.00 per 100; Flowering Begonias, \$2.50 per 100; Vinca, variegated, 3 in., \$3.50 per 100; Moon Vine, 2 1/2 in., \$3.00; 4 in., \$10.00.

THE NATIONAL PLANT Co. DAYTON, O.

Grafted Roses

Bridesmaid, Bride, Bon Silene and Safrano. \$10.00, \$12.00 and \$15.00 per 100

Chrysanthemums

Wm. Duckham, Dr. Enguehard, Cheltoni, F. A. Cobbold, \$2.50 per 100.

STANDARD VARIETIES, \$7.50 and \$10.00 per 1000.

Newtonville Avenue Greenhouses NEWTONVILLE MASS.

Mention the Florists' Exchange when writing.

Everblooming Roses

Surplus stock of standard varieties of Everblooming Bedding Roses, at prices that will close them out.

Strong, healthy stock from 2 1/2 in. pots, to include Bridesmaid, Bride, White Maman Cochet, Mary Washington, Queen's Scarlet, etc.

Strictly our choice of varieties in good assortment, \$2.00 per 100, \$17.00 per 1000

The Stopps & HARRISON Co.

PAINESVILLE, OHIO

60,000 GRAFTED ROSES For Forcing

Extra fine healthy plants, free from mildew.

LIBERTY, Rose pots, \$15.00 per 100; 3 1/2 inch pots, \$18.00 per 100

BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN

Rose pots, \$10.00 per 100; \$95.00 per 1000

3 1/2 in. pots, \$15.00 per 100; \$145.00 per 1000

500,000 VERBENAS 60 varieties

Perfectly healthy, in bud and bloom

2 1/2 in. pots, our selection, \$2.50 per 100; \$20.00 per 1000

2 1/2 in. pots, purchaser's selection, \$3.00 per 100; \$25.00 per 1000

COLEUS

VERSCHAFFELTII, GOLDEN BEDDER, FIREBRAND

Rooted Cuttings, 75c. per 100; \$6.00 per 1000

SEND FOR PRICE LIST

J. L. DILLON, Bloomsburg, Pa.

Mention the Florists' Exchange when writing.

ASTERS

Bentley's Famous Asters, extra fine stock, from bench, \$7.00 per 100, \$8.00 per 1000; from 2 1/2 in pots, \$2.00 per 100, \$17.50 per 1000.

American Branching, Hohenzollern, Queen of the Market and Carlson's, from bench, 60c. per 10

\$5.00 per 1000; from 2 1/2 in. pots, \$1.50 per 100, \$12.1 per 1000.

PRIMULAS for July Delivery

KAISERIN

Strong, Healthy Plants

3 in. pots \$7.00 per 100

2 1/2 in. pots 5.00 per 100

THE LEO NIESSEN CO. 1217 Arch Street, PHILADELPHIA, PA.

ROSES

BRIDE, BRIDESMAID, IVORY, GOLDEN GATE, MME. ABEL CHATENAY

\$3.00 per 100; \$25.00 per 1000

GEORGE REINBERG

51 WABASH AVE., CHICAGO, ILL.

Mention the Florists' Exchange when writing.

The Retail Trade

SAN FRANCISCO, CAL.—At the recent dog show held here, some of the kennels and dogs were decorated with flowers. Mrs. Phil C. Meyer, wife of the well-known florist, who was an exhibitor, set the fashion, which became general, and is considered a "dog-goned" good idea. Each dog collar held a miniature bouquet, mostly of dog's-tail grass, clustered about either a Rosa canina, an Enchantress carnation, or a dog tooth violet.

The decorators, who in this connection displayed meritorious handiwork, were representatives, respectively, of the flower stores of Sievers & Boland, the Misses Worn, Julius Eppstein, Frank Pelicano Co., Alex Mann, Jr., Serveau Bros., Podesta & Baldocchi, Thos. H. Stevenson, Charles Stappenbeck, Frank & Parodi Co. and Wickstrom's Floral Depot.

ALVIN.

English Horticultural Notes.

AMERICANS AND DAFFODILS.—One seldom sees notes about daffodils in the American trade journals, and from that it is inferred that at least a keen interest in these lovely and delicate flowers is not widely extended in the United States. In England we have few daffodil exhibitions purely as such; still there are Truro, Cornwall; Plymouth, Devon; Croydon, Surrey; and the Midland Daffodil Society's show at Birmingham, besides the fortnightly exhibitions held in London by the Royal Horticultural Society. Numbers of private gentlemen's gardens are also so magnificent with thousands and thousands of different daffodils (narcissi) planted in the grass and in beds and borders, that they throw open their estates to allow the public to come and enjoy the sight. Occasionally a nominal charge is made, the money going to the funds of either the Gardeners' Royal Benevolent Institution or the Royal Gardeners' Orphan Fund.

There is money in daffodils. One clergyman (so many clergymen in this country make gardening a hobby—sometimes a paying one) has taken a leading part in the cross-breeding of varieties, and he makes possibly hundreds of pounds sterling per year by the sale of his choicest varieties to trade houses. On one occasion, however, he handed over the pick of his gems to a wealthy lady daffodil enthusiast for (it was related) the sum of £600. The said lady this year was able to stage the finest collection of varieties (mostly rare) that has ever been seen, and she secured the coveted and seldomly awarded gold medal of the R. H. S.

Our daily newspapers have also been informing their readers about the "50-guinea bulb." This is the variety Peter Barr, the largest and handsomest of ivory-white trumpet daffodils. Of course, when such a decided lead appears, as Peter Barr is, the owners put on what may be termed a prohibitive price, until such time as they have a sufficient stock. This may be in two years, or in three. In the case of Peter Barr I think it is three, but at their nurseries Messrs. Barr & Sons (of King street, Covent Garden) have now a dozen or two of bulbs. The price will very likely drop to £7 or £8 per bulb for the coming Autumn, perhaps less, and so the stock is dispersed into the hands of connoisseurs and breeders. There is the danger of holding stock just a year too long, for in these days when novelties follow so fast and show such marked distinctions and improvements, it seems unwise, unless you are thoroughly conversant with the stocks in Holland and in England, to lose £200 for a probable £500.

Messrs. de Graaff are the great raisers in Holland, and they dispose of their gems to our chief bulb dealers. In April, Messrs. Barr & Sons showed some white trumpet narcissi which seemed to me to be as different in the quality of whiteness, compared with those we already possess, as fresh milk is against driven snow. The flowers were under number, and they were all of medium size; but the form was excellent, the substance stout, and the color—well, spotless white.

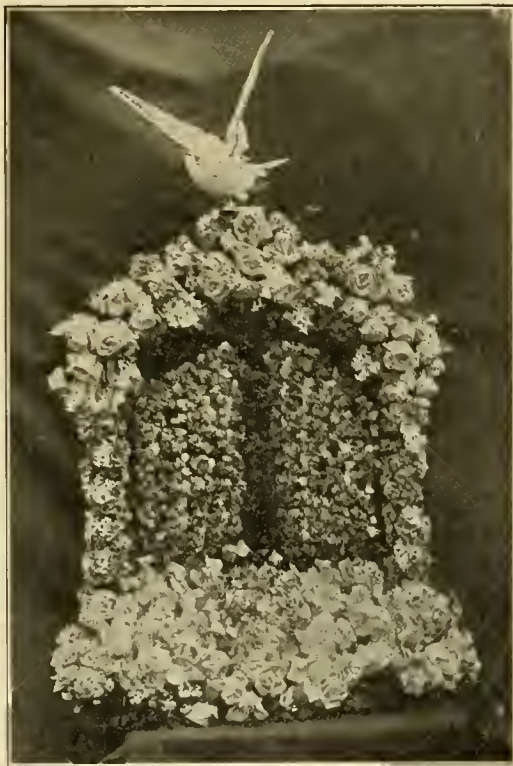
At the Midland Daffodil Society's show, in mid April, an analysis was made, being secured in this excellent way: A ballot box was placed beside a collection of fifty varieties. Cards were given to visitors, who were requested to mark thereon what they considered the best twelve. Each bunch was under number only; 242 persons voted. The secretary sends me the result, which may also be of interest to readers of The Florists' Exchange.

1. Madame de Graaff.....157	26. Stella	38
2. Glory of Leiden.....100	27. Princess Mary	41
3. Whitewell (scedding) 24	28. Frank Miles	19
4. Incomp. Plenus 38	29. Campenelle Jonquils 40	
5. C. J. Backhouse.....122	30. Falstaff	52
6. Baroness Heath 9	31. Maurice Vilmorin..... 33	
7. Lulworth	32. Crown Prince	139
8. Duchess of Westminster	33. Cynosure	21
9. P. R. Barr..... 34	34. Duchess of Erabant. 27	
10. Princes	35. Princess Mary	18
11. Mary	36. Madame Plemp	79
12. J. B. M. Camm..... 38	37. Sensation	80
13. W. Goldring	38. Queen Bess	6
14. Horsfield	39. Golden Ball	43
15. Beauty	40. Fortia	48
16. Palmerston	41. Hogarth	9
17. M. J. Berkeley..... 42	42. Orange Phoenix	34
18. Barr Conspicuous.....198	43. Mrs. Langtry	72
19. Orpheus	44. Semi-partitus	29
20. Seedling (unknown). 23	45. Gloria Mundi	142
21. Katherine Spurrell. 121	46. M. M. de Graaff..... 23	
22. Titan	47. Emperor	108
23. Flora Wilson	48. Sir Watkin	90
24. Grand Duchess	49. Ornatu	100
25. Autocrat	50. Nelson Major	21

By this it will be seen that the twelve most popular are numbers 1, 45, 32, 47, 5, 21, 13, 2, and 49 (equal), 23, 36, and 37. Of course, like choosing roses from an exhibition board, all may not be good "doers" in the garden; but the best twelve are all robust enough.

Among golden trumpets none has impressed me more favorably this season than Lord Roberts and King's Norton, both being stately, smooth, rich, large and well balanced. Cassandra is the best of the poetic varieties without the shadow of a doubt. White Queen, Bridal Veil and White Lady, also Alice Knights, are gems among white Ledsiis, or silver chalice-cupped section. Mrs. Langtry is one of the best for market work in this section, though necessarily still scarce. For market also we use maximus, Henry Irving, stella superba, Barri conspicuus, Emperor, Empress and Sir Watkin. The red-cupped and the pale sorts are still novel to the general public, and I have repeatedly seen the keenest interest evinced by passengers in the trains and cars when I had a bunch of the less common kinds in my hand. A bookseller friend of mine also had some Barri and Mrs. Langtry on a table, which was in view from his shop. A lady saw them, and actually pleaded to be allowed to purchase a few; but as they were a present from a Manchester nurseryman friend, he did not deal. I mention these things, however, as suggesting possibilities to the alert man. Were some of the Exchange readers to make a specialty of narcissi (some may be doing so), and keep right abreast of the quickly-moving procession, I am sure good returns and fair fame would reward them.

J. HARRISON DICK.



GATES AJAR

Artist F. C. Read, Orange, N. J.

Fadeless Flowers.

The newspaper press has exploited the Burbank "fadeless flower" in a way to make one suppose his feat equal to making a fadeless rose or lily. Very little description was given, but from that little and its Australian origin I was sure it was an acroclinium or closely allied to it; and now Mr. Pierson's late article in this paper makes it still more certain. Indeed, the only botanical difference between acroclinium and cephalopterum so far developed is that the latter has a number of flowers on one stem, instead of one, and each flower has eleven petals (rays). I do not wish to belittle Mr. Burbank's work, but all will presently understand that his fadeless flower, like so many Australian flowers, was an everlasting, to begin with; he has merely improved its form, color, etc. Cephalopterum germinates strongly, says Mr. Pierson. Acroclinium will come up in three days. The foliage of both is light green; neither is afraid of drouth, and so on. I have grown acrocliniums for thirty years, and any one can have fadeless flowers for five cents from any seedsman. There is a light pink and a pure white variety to be had separate or mixed; also a "double" sort, more full than the others, but not really double; all having light yellow discs. Measuring an acroclinium flower, I find it 1-4 in. wide. It has ninety rays, and the double sort would have many more than this. There are many stems from one root, each bearing one flower, and, like cephalopterum, it has many flowers budding and blooming month after month if no seed is allowed to form. Pick some buds before fully grown—they will remain partly open flowers

after drying—and gather all before fairly open. Tie in small bunches, and hang head downward in the shade. Framed under glass, etc., and kept out of the sun all mentioned here will keep forever, so to say.

The rodanthe is another lovely Australian everlasting, with wider leaves and smaller and more delicate in all its parts than the acroclinium, but coming up as promptly. Its long, drooping buds are made up of pure white, transparent, overlapping scales, and nothing can be more delicately beautiful than the pink rays shining through this white envelope. There is a pure white sort—in fact, several species of rodanthe—but the R. manglesii is the only one I know. This, too, is a great producer. The buds should be picked soon enough to keep them as buds; the wide-open flower is less pleasing. It isn't likely that any Australian plant will worry much about hot weather, for they say a match dropped on Australian sand at noon is instantly lighted.

Then there is the Aelipterum sanfordii, a little, gray, dusty looking plant having cymes of small, light, golden yellow flowers. Other helipterums are said to be pink, white, crimson and purple. The Australian Ammobium alatum (winged ammobium) forms a thick bush two feet high, with an immense number of white flowers with brown discs. Pick so as to keep them in bud mostly. Now comes the helichrysum (sun gold), a tall, erect plant, three feet high, from South Africa and Australia—a great bloomer and drouth resister. Some are so red they are black; others are orange, pink, crimson and yellow, paling to almost white. Picked in bud they are double; left on the plant the disc enlarges until it is the main thing.

So here are all these fadeless flowers, which you can grow in any quantity with no more trouble than annuals in general. Acroclinium and rodanthe are very easily grown; helichrysum also. Helipterum and ammobium have fine seeds and require some care in sowing, but are not difficult. The xeranthemum, blue and purple, is easily grown, but the flowers are stiff and the colors dull. Waitzia, a golden yellow Australian, is said to be handsome, but I never saw it. "The Injun posy," or "moonshine" (Anaphalis margaritacea), and the mouse ear (Antennaria plantaginifolia), both common pasture weeds here in New York, are everlastings, having small white flowers in large heads; pale affairs beside the Australians, but good for variety. The "moonshine" is cultivated and now naturalized in England.—E. S. GILBERT, in Florida Agriculturist.

The Improvement of the Petunia.

Much needs to be done before the petunia will be brought back to the fine character, both striped and self colored, to the exquisite form which characterized the varieties named and distributed forty and fifty years ago. The petunia in both its single and double forms was a florist's flower; new varieties of high-class merit were propagated by means of cuttings, and distributed; fine specimens graced the exhibition table, and materially assisted to make the greenhouse and conservatory gay by reason of their natural floriferousness. We need, both for pot culture and decorative purposes, something much more refined than the large and coarse single and double German varieties. Cross fertilization may therefore be hopefully attempted, and the way to go about it, having selected a seed-bearing plant, to remove the pollen bearing organs prior to the impregnation of the flowers; of course, a suitable pollen bearing parent must be selected. The pollen of petunias under certain conditions is so energetic that even the faintest touch will occasion its distribution, and the particles disengaged by the eruptive force possessed by aggregations of pollen would minimize or most likely render futile the attempt to obtain crosses other than adventitious ones, which frequently fail to give satisfaction by their results. Those who have been engaged in this work have found that pollen is affected by atmospheric influences, when the impregnation of the flowers is particularly noticeable, the capsules developing as if by magic. The work of cross fertilization is full of interest, and when carefully performed the best results may be anticipated.—Argus in Horticultural Advertiser.

Southern California is to have a laboratory and experiment station for the study of diseases of plants. The financial support is to be furnished by the State that the work may be undertaken by the University of California as a part of the activities of its Department of Agriculture. The State Commission for the selection of a location for the pathological laboratory and experiment station, a board consisting of the Governor, President Benjamin Ide Wheeler, of the university, and Professor E. J. Wickson, of the chair of agricultural practice in the university, is ready to receive proposals in regard to a site. It is expressly set forth in the bill providing for this work that lands already belonging to the State at Whittier or at Patton may be used if the Commission so decides. Should other communities in Southern California, however, make offers particularly advantageous in character the Commission will be glad to entertain such proposals.

BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., writes a strong letter to the local paper protesting against the rowdism of laboring men from the brick-yards in their effort to curb free labor, and calling on his fellow-citizens to aid in the maintenance of law and order.

THE WEEK'S WORK.

Timme's Timely Teachings.

Boston Ferns.

Whether or not the raising of Boston ferns is overdone, as some are trying to make us believe, I am not in a position to say. There certainly is no evidence of over-production in my immediate neighborhood. Indeed, it seems as if far more could have been sold this season had they been available, or had they been such as were wanted and in greatest demand by buyers of well-finished specimen plants.

That the fine qualities of the Boston fern have made this plant a universal favorite and have done much in lessening the sales of palms, rubber plants, dracenas and other decorative subjects, is true. If there is any over-production it must be looked for in that quarter. Certain sizes of all these plants are always in demand, and even scarce at times. A retail grower, observant and alert to business, will soon see the wisdom of providing the sizes and grades which best suit his particular trade and locality. Wholesale growers are never in doubt as to the sizes most called for, but very often are driven to extreme and novel measures, cultural and otherwise, in their efforts to supply them. A great part of the profits in the culture and in the handling of plants of this class is lost every season by missing it in this particular.

With me, Boston ferns in 5, and especially in 6-inch pots sell most readily; are a size most easy and most profitable to handle, and obtained by a single season's preparatory culture without the least difficulty. Smaller plants are useful, but three 4-inch pots contain more good material and bring less money than one 6-inch, and are not much called for. So, also, is the demand for very large specimens but a limited one. These bring an extra good price, but not enough money to fully pay for the extra time and care required to grow them into proper shape and finish. All this extra exertion is not necessary with 6-inch plants, they being in salable condition a few weeks after being made up from the bench-grown material.

Growers who intend to try their hand in the raising of Boston ferns, to work up a nice supply for next season's trade, should now begin to get a bench in readiness for this purpose. Select a well-drained side bench, not too near the glass; cover the cracks in the bottom with a layer of thinly cut sod, the grass side down, and put on this four inches of any good, fresh soil, mellow, porous and well enriched with nicely decomposed barnyard manure. If this latter is in an earth-like, powdery condition, not disagreeable to the touch—fully one-half of the entire mixture may be made up of it; and the other half, if not naturally sandy, should be made so by adding a goodly quantity of sharp, bright sand. Plants out of 2½ or 3-inch pots are the kind to start with. Any movable contrivance, giving the necessary light shading, is to be preferred to the permanent paint or lime coating on the glass roof, so often and so inappropriately employed by most growers. Thin muslin, nailed tightly on handy and well-made lath frames, costs much less than is generally supposed, is easily and quickly put up or taken down, and, by using it, the plants need not be deprived of the great benefit of the full light mornings and evenings, and on cloudy days. Ventilation, watering and sprinkling will have to be duly attended to in the same degree, as this part of the gardener's regular work is performed in the Summer culture of other stock under glass. Frequent syringing, resorted to in hot weather as a necessary measure, will also at times supply all the moisture needed at the pots. This should be borne in mind, and, although the ferns ought never to be let go until entirely dry at the roots, over-watering will produce weak and flabby fronds and should not occur.

In the latter part of September the plants must be lifted and be made up into good, finely balanced pot specimens. A couple of weeks later they can safely be placed on sale. The bench is cleared out entirely; all the smaller pieces, unsuitable for entering into the construction of finished plants, are potted up into small pots and grown on. Where only a limited number of Boston ferns is handled, the grower will have no difficulty in raising all he needs in this line in pots through the Summer, beginning now with 3-inch plants, and, by giving them two or three timely shifts into larger pots, working up to good-sized plants by next Fall. A good sandy loam, quite rich, is a suitable soil.

Maldenhair Ferns.

While speaking of ferns, it may be well to remind growers that this also is a good time to start a bench or part of a bench of *Adiantum cuneatum* for cutting purposes. This old standby is still largely depended upon for the finely feathered fronds so indispensable in all kinds of made-up floral work. It is, however, not any more reliable, or any easier to grow, and perhaps not as easy as the newer form of maldenhair fern, *Adiantum Croweanum*, which also

readily responds to mass culture in a bench. This, though the fronds are a trifle less finely and delicately serrated, is of a more vigorous constitution than the old and somewhat deteriorated *A. cuneatum*. Its fronds are longer stemmed, and are produced in regular succession. It does well under thinly shaded glass in the hottest Summer, and without any shading at all in Winter.

The greatest stumbling block in the road to entire success in this culture—especially where the old variety is grown in large numbers on benches, and the cause of much worry and a deal of extra labor—is the presence of a destructive fungus, a mold, which attacks the new unfolding fronds, and which must constantly be fought with sulphur and other remedies. If more light and a drier atmosphere than is usually maintained in our fern houses, minimize or do away entirely with this trouble, as is now claimed by some experts, then it is well worth while to test and put to proof this preventive measure by adopting a wholly modified course in fern culture, if only at first in a small way. That the densely painted glass so often seen, and the excessive degree of moisture maintained in most all the houses where this culture is carried on, are parts of a treatment employed in a measure far beyond the production of good, is not hard to believe.

In the bench culture of *Adiantum* I have found that a narrow bed, about two feet from the rafters, thoroughly drained, and a layer of four inches of porous, moderately enriched soil; half of it leaf mold, meet the requirements of the ferns in these essentials; and as to shading, watering and sprinkling, the practice of a little more moderation in the future would, no doubt lead to good results. *Adiantum grandiceps*, *A. caudatum*, *A. Farleyense*, *A. formosum*, and all these varieties, mostly grown as show specimens, and for the conservatory, will only succeed finely under constant pot culture, and are not adapted for massing in beds or benches. *A. Farleyense* thrives best and shows up best when placed singly on pedestals or inverted empty pots, far above the bench. The cut fronds of this variety are most valuable, and exceedingly useful to the decorator.

Gardenias.

The grower of cut flowers, not driven quite so hard just now as the all-around gardener and plantsman, should find the time to prepare a bench, or several, for gardenias. He should remember that the month of May, or the first week in June, is the very best, and, I may say, the only time in which young stock of the Cape Jessamine ought to be planted into the bench, if bench culture is the object. This work should not be delayed until June or July, when all his other stock is benched, if he hopes to cut gardenia blooms at a time when they are most valuable, longest lasting and highest priced.

Plants too far advanced—four or five-inch plants—will not do to plant into the bench. They would bloom too soon. So would the old plants coming out of a bench. The best thing to do with these now is to plant them into pots a size or two larger than they would seem to require. Provide good drainage and use a compost, made up of partly decomposed sod, leaf mold and well weathered old manure in equal parts, with a liberal admixture of gritty, coarse sand. Some of these old plants—most of them—come in good shape for Christmas, a time when the main crop of gardenia flowers is still in the bud form.

The proper stock for bench culture are the young plants, obtained by propagation in late Fall or early Winter from the ripened new wood of old plants. These should now be in 3-inch pots, well rooted, nice plants. Those with a deep green foliage should be chosen for the bench, and any showing a yellowish, sickly growth should be reserved for pot culture, where they will stand a better chance of regaining their vigor by proper treatment than in the bench.

In filling a bench for gardenia culture fully one-fourth of the contents should be some coarse material to go first in the bottom, guaranteeing perfect drainage. On this four inches of soil are placed of the same mixture as recommended for pot culture. However, should there be difficulty in obtaining a grade of sufficiently decayed manure, then much less should be taken in the preparation of the compost and a small quantity of crushed bone added. Instead, will not do to set the plants any deeper in the bench than they stood in the pots. No harm is done by planting a little higher, rather. Some growers plant on little hills, or ridges, and thus avoid a too deep stand of the plants after the soil has settled. While it is a common practice to give a newly stocked bench a heavy soaking just after cartons, chrysanthemums and such stock has been planted, it is not advisable to follow this course in the case of gardenias. The young plants should be well watered a few hours before they are taken out of their pots and planted, and the soil in the bench should be quite moist, admitting of good firming around the plants. Young gardenias, after being then planted and kept moist by frequent syringing will hardly ever need a real watering down until their roots have begun to send fibers into the new

soil. On unusual quantity of moisture is required in the culture of gardenias; not so much in the soil or at their roots, where a reasonable degree of moisture should only be in evidence at all times, but more especially in keeping the foliage moist and clean by frequent sprinklings applied several times daily. This tends to saturate the atmosphere of the house with moisture, a condition congenial to gardenias, and which ought to be kept up all through the Summer, as also in the Winter, when very hard firing becomes necessary. Forceful syringing and the presence of moisture on and about the plants will also help to keep them free of insects, of which the mealy bug is the most troublesome at times.

Antirrhinums.

February struck cuttings of snapdragons ought now to be finely rooted and sturdy plants in 3-inch pots. They are of the right size to be planted into the bench; and the time is also just right for a start to be made with a view of obtaining a beautiful crop of these gorgeous flowers for Christmas and the early part of Winter. A solid bed is a good place for snapdragons, but a bench with five or six feet of clear headroom will also do. They will thrive finely in any ordinary good soil, moderately enriched. Complete success in this culture need not be expected where the plants are grown in the open field and lifted in the Fall. Either pot culture all Summer or benching in May and June for the early crop will give good results, and will reward the grower, new and unaccustomed to the growing of these plants under glass for their flowers, with unlooked-for and often surprisingly high returns.

During the Summer the young plants will form bloom buds rapidly, and are always ready to flower. Keep the buds pinched out as fast as they appear, but let the green growth attain full height and size. Toward Autumn this first wood will cease to grow, and now is the time to look out for and take good care of the secondary growth—the stout, thick shoots, coming from under and over the ground, all around the base of the plants. These, under favorable conditions, will, at first slowly, later on rapidly, develop into those grand, strong stems, four and five feet long, crowned by flower spikes over a foot in length. This is the snapdragon of value, the only kind worth growing; and, when grown, worth a good deal. When rightly managed, the culture of antirrhinums always proves most profitable.

Campanula Media.

Another good bench crop, yielding satisfactory profits, is the Canterbury bell in all its colors and varieties. The plants needed for this culture are grown in the field all Summer, and are lifted and benched in late Fall, then being clumps of great size. Now is the right time to make sowings of the various kinds—meaning the kinds of *Campanula media* only, since none of the varieties of perennial campanulas are of any value for indoor culture. The true historical Canterbury bell comes fairly true from seed, and can be had in separate sorts and colors. Sow thinly and transplant to the open when large enough.

FRED W. TIMME.

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

LANSDALE, PA.—John Savage succeeds Thomas Foulds in the greenhouse business, near Hoyt, and has moved his family from Germantown.

MADISON, N. J.—Charles H. Dodd, of Jersey City, has started in the greenhouse heating and repairing business here. He has had long experience in this class of work.

WATERLOO, IA.—H. D. Williams, senior member of the florist firm of Williams & Crittenden, has disposed of his interest in the business to Harry Daniels. The new firm will be known as Crittenden & Daniels. Mr. Williams, on account of failing health, and acting on the advice of his physician will make a trip to Montana, where he will remain for several months. In hope the climate will restore some of his former strength.

FIRMS WHO ARE BUILDING

ALLENTOWN, PA.—Andrew Yeager is building three new greenhouses.

SCARBORO, ME.—Gregory Blinson has added a small greenhouse to his plant; he hopes to make further increase this Fall.

BARABOO, WIS.—William Peck, who has just completed a new greenhouse, contemplates erecting another, 132 x 30 feet, to be devote to carnations. His business is growing very rapidly.

BOUND BROOK, N. J.—Ant. C. Zvolanek, of Grand View, N. J., has built a range of two houses, each 31x204 feet, to be devoted to sweet pea culture. He expects shortly to move to his new location, which is about 1½ miles northeast of Bound Brook depot.

CATALOGUES RECEIVED.

HENRY F. MICHELL COMPANY, Philadelphia.—List of Implements, Insecticides, Hose, Sprayers, and other necessities for the Garden and Lawn. Michell's Evergreen Lawn Grass Seed was awarded a silver medal at the St. Louis Exposition. The firm's sales of grass seed last year amounted to over 20,000 bushels.

PERRY'S HARDY PLANT FARMS, Winchmore Hill and Enfield, London, Eng.—Catalogue of Water Plants, including Aquatic and Bog Plants of all descriptions. Illustrated.

HENRY PHILIPPS SEED COMPANY, Toledo, O.—Wholesale Price List of Flower Seeds for Summer Sowing; Bulbs for Fall Planting, etc. Illustrated.

Indianapolis.

News Items.

A heavy wind and hailstorm visited this section Wednesday, May 10. Many trees were blown over in the parks bordering on the south part of the town. Hail as large as walnuts was reported in several places. The florists were unusually lucky this time in that but one of their number lost any amount of glass. Bertermann Bros. Co., at their East Washington street plant lost between 400 and 500 panes. At Smith & Young's place, about four blocks away, not a glass was broken.

The outlook for Decoration Day is very promising. Stock will, from all indications, be more plentiful than last year.

Visitors: W. H. Elverson, New Brighton, Pa.; Harry Balsley, Detroit, Mich. I. E.

Washington

Dr. B. T. Galloway, Chief of the United States Bureau of Plant Industry, is on his annual tour of inspection, and will visit the Plant Introduction Garden at Chico, Cal.

SCRANTON, PA.—Edward Jayne, florist, is quite ill at his home on Cedar avenue.

Does the Trick.

The Florists' Exchange certainly does the trick; and I shall patronize your paper exclusively another season.

New York. PETER OLSEN.

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The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), set solid, without display.

Display advertisements in these columns 15 cents per line; count 14 lines to the inch.

No advertisement taken for less than 50 cents (35 words), except Situations Wanted.

If replies to Help Wanted, Situations Wanted or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.]

STOCK FOR SALE

75,000 Aster Plants. Queen of the Market, red, white, blue and pink. Semple's Brachling, red, white, blue and pink, 25c. per 100. Nice, large plants. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

CANDYTUFT. Giant hyacinth flowered, nice bushy plants from 2 1/2-in. pots. Will bloom for Decoration Day. \$2.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

CROTONS. Fine plants, wide or narrow leaved, \$3, \$5, \$10 per 100. 200 English Ivy, 3 to 6 ft. cheap. Wanted Begonia Venusta. F. C. Beiden Co., West Palm Beach, Fla.

DRACAENA INDIVISA, out of 7-in. pots, \$40.00 per 100; out of 6-in. pots, \$30.00 per 100; out of 5-in. pots, \$20.00 per 100. George Walwright, 627 Princeton Ave., Trenton, N. J.

FUNKIAS.—Variegated day Lily, strong pipe, \$4.50 per 100; \$40 per 1,000; clump from 8 to 12 pipe, \$25 per 100. Cash. Chas. Hornecker, Box 31, Springfield, N. J.

GLADIOLI LEMONIEI, named, mixed; Lemoniel seedlings; Childs seedlings; Grot's hybrid seedlings; Crawford arials. 50c. per 100 and upward. Correspondence solicited. John H. Upmehy, Lake View, N. Y.

PELAGONIUMS.—Something new; something nasty; seedling varieties never before offered for sale; standard varieties; the largest and best collection in America. Descriptive price list on application. J. Gammas & Sons, London, Canada.

ROSES, good clean stock, 3-inch; 5,000 Bride, 5,000 Bridesmaid, 1,200 Kaiserin. Write for prices. F. & H. Mergenthaler, E. Washington Lane, Germantown, Phila., Pa.

ROSE PLANTS.—Write for prices on hybrid perpetuals, hybrid teas, Climbers, Ramblers, etc. C. M. Niuffer, Springfield, Ohio.

SITUATIONS WANTED

SITUATION WANTED by a good rose grower, for a section. Address U. D., care Florists' Exchange.

SITUATION wanted as working foreman by competent married man; carnations a specialty; good references. Address U. H., care Florists' Exchange.

SITUATION wanted. Single. All grower of roses, carnations; competent worker; take charge 50,000 ft. glass. Address Florist, care Crane, 201 East 26th St., New York.

SITUATION wanted by florist, German, 31; eighteen years' experience; competent to take charge; honest. Industries; willing worker; steady position state wages. Florist, 158 Orange Road, Montclair, N. J.

GOOD GROWER, roses, carnations, chrysanthemums, violets, etc., wants position as work-plant, first-class references; long experience in charge. Commercial or private. Address U. F., care Florists' Exchange.

INTELLIGENT young man (30), 9 years' experience as grower of first-class carnations, orchids, and general stock, for New York market. A good grower, and well up in all mechanical work; desires position in the East. Not having been employed in florist trade for past few years would be willing to start low and prove ability. Address U. E., care Florists' Exchange.

HELP WANTED

WANTED—At once, a good man for pot plants; wanted to be a good potter. State wages. Herman Scholzel, New Durham, N. J.

WANTED—A salesman; must be good maker-up, and willing to work. Call T. J. Lang, 39th street & 6th avenue, New York.

AN EXPERIENCED section man wanted in rose house, at once. Apply to Edgar C. Hopling, Flotham Park, near Madison, N. J.

WANTED—Capable rose grower who understands his business; must state when he can come. R. T. McGorum, Natick, Mass.

WANTED—At my branch establishment, Fort Hamilton Ave., a married man as foreman; a good grower of roses, carnations and general stock; only a steady and experienced man need apply. Give references, and state wages expected. Address R. Sisson & Son, 341-9 Greene Ave., Brooklyn, N. Y.

HELP WANTED

WANTED—By June 1, a first-class grower of roses and carnations; must be sober, reliable, and able to grow all stock. Wages, \$85 per month. Place permanent. Address U. C., care Florists' Exchange.

WANTED—At once, good man to fill flower beds and vases. Call or write M. Wokral, 61 McConnell St., Newburg, Ohio.

WANTED—June 1, sober, married man, for general greenhouse work; steady position for a hustler. Joseph Wood, Spring Valley, N. Y.

WANTED—Catalogue man who is familiar with the "get up" of a seed, plant and bulb catalogue. Livingston Seed Co., Columbus, Ohio.

WANTED—Working foreman, 15,000 feet glass, where cut flowers, bedding plants and general greenhouse stock is grown. S. S. Peckham, New Bedford, Mass.

WANTED—Florist; one who can invest \$500 to \$1,000; take full charge of about 8,000 feet of glass; mainly carnations. Write Stafford Florist Co., Stafford Springs, Conn.

WANTED—A working foreman; roses, carnations and general stock. State wages expected, and give references. Also an assistant who worked successfully on roses. John Reck & Son, Bridgeport, Conn.

WANTED—At once, an all-around florist to take complete charge of 8,000 feet of glass, cut flowers and bedding plants. Must be temperate and industrious; give references. H. B. Thompson, 10 Pike St., Canonsburg, Pa.

WANTED—A competent bookkeeper and office man familiar with the tree and plant business; good opportunity and permanent place for a man not afraid of work, and who wishes to advance. References required. Also a nurseryman of good habits; young, energetic man preferred. Fancher Creek Nurseries, Inc., Fresno, Cal.

WANTED AT ONCE

A man to work as helper in rose houses. Address

U. G., care Florists' Exchange

WANTED

Gardens who is thoroughly familiar with the propagation and growing of Stove Plants in a commercial way. State experience, reference, salary expected. Address HENRY A. DREER, INC. Box 2, Riverton, N. J.

Mention the Florists' Exchange when writing.

BUSINESS OPPORTUNITIES

FOR RENT—SMALL PLACE, ABOUT 4,000 FT. OF GLASS. ADDRESS A. AKERS & CO., JOHNSTOWN, PA.

TO RENT—In Greater New York, 25,000 feet of glass, 3 acres of ground, dwelling house and barn. Address P. M., care Florists' Exchange.

GREENHOUSE, stocked with ferns, near New York, for sale to the right party; only people who mean business need apply. Address R. G., care Florists' Exchange.

FLORIST place in center of New York City; no store; a attached to another place with high-class trade, pays \$2,000 a year. For sale on account of other business. Address U. A., care Florists' Exchange.

FOR SALE OR RENT—11 greenhouses, Hitchings and Gurney heaters; 4-inch pipe; coal chaps; good water, will give a bargain to the right person. Apply Jos. H. De Frehn, 300 S. 2nd St., Pottsville, Pa.

FOR SALE—Modern greenhouses, 30x185; 10x12 double glass; 2-inch iron posts throughout; to be removed by purchaser. Cheap. Also 500 boxes 10x12 double glass, \$1.75; 100 boxes 10x20, \$2.70. R. Gelb & Son, Livingston St., Newark, N. J.

FOR SALE—Near Jamaica, Long Island, two greenhouses, each about 20x120 ft. heated by hot water; all just put in good condition. Small dwelling with about one-half acre land rents with greenhouse. Apply to Winthrop & Stinson, 32 Liberty St., New York City.

IN PROVIDENCE, an opportunity to buy a wholesale and retail flower establishment. Business well established. Beautiful display window. Located on one of the principal streets. For further information, address H. W. Hilsbusch, 21 Custom House St., Providence, R. I.

FOR SALE OR LEASE—A BIG SNAP IN ST. LOUIS FOR A GOOD CARNATION GROWER. 500 feet of ground worth now \$10 per foot; four greenhouses, 15,000 feet of glass, 15,000 all new varieties of carnation plants; also bedding stock. Sever-room residence. All for \$7,000, one-third cash, balance on time, three to five years; or will lease greenhouses with plants for 10 years at \$250 per year. Address J. J. Beneke, 1216 Olive St., St. Louis, Mo.

FOR SALE—The florist plant and business of the late Edward H. Howland, Holyoke, Mass. This plant consists of 31,800 square feet of land in the center of the city, with a complete and modern greenhouse equipment. The business is a wholesale and retail business, and is the leading establishment in a city of 50,000 people. For particulars apply to N. P. Avery, Administrator, No. 24 Dwight street, Holyoke, Mass.

BUSINESS OPPORTUNITIES

FOR SALE or to let, five greenhouses, heated by hot water; half acre of land; village water; good dwelling of seven rooms; in the village of North Tarrytown; one mile from station; twelve years' established. Address E. B. J., Box 77, North Tarrytown, N. Y.

FOR SALE—New Jersey, half hour's drive from New York ferries, well-established wholesale business, seven greenhouses (20,000 ft. glass), hot-water heating; also 9-room dwelling; trolley cars pass the door. For further particulars apply to Jos. J. Cuaningham, 32 Nassau Street, New York.

WILL SELL cheap, 5 greenhouses, all iron, Hitchings build, 5 boilers, everything in first-class condition. One house 80x24 feet, with propagating house attached; 4 houses 100 ft. long, all attached. Must be removed at once. Don't miss this chance. T. Kraft, 135 Johnson Ave., Newark, N. J.

FOR SALE or lease, well equipped plant with seven acres, located in good town and fine country; 20,000 ft. glass; cut flowers and plants can sell twice what we can produce; reasons given for wanting to sell. Part cash, balance at purchaser's own time. Address T. F., care Florists' Exchange.

FOR SALE—Our entire plant, 10 greenhouses, about 25,000 ft. glass, nearly all 16x24 ins. in size, and double thick. Iron and cedar posts, cypress bars; business established over 30 years, but entirely rebuilt in last 10 years; heating, hot water under pressure. A large percentage of income is from cut flowers and floral work; entire products sold retail. Receipts all right, books open. Terms easy. We are only 20 miles from Massachusetts State line, with some of N. H. fine summer resorts near us. Address Ellis Bros., Keene, N. H.

FOR SALE

A greenhouse establishment; about 20,000 feet of glass all double, consisting of 7 greenhouses. There are 375 running feet of Hitchings' iron frame, 3 span in 2 houses, 24-inch glass. There are 5 new boilers, two number 17, two number 16, and one number 54 sectional, all Hitchings, and all 4-inch pipe, Hitchings. The boilers are all new. Will be sold to be taken down, the land being cut up for building lots. Will sell whole, or any part. Must sell and vacate.

JEROME A. SUYDAM
Flatbush, Brooklyn, N. Y.

Mention the Florists' Exchange when writing.

MISCELLANEOUS WANTS

WOULD LIKE to lease or buy property with two or three greenhouses, for New York market. Address U. B., care Florists' Exchange.

WANTED TO PURCHASE GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLORISTS' EXCHANGE.

WANTED TO BUY

greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

MISCELLANEOUS

FOR SALE—Two tubular horizontal boilers, 60 inches diameter, 22 feet long, with 18 six-inch flues. Safety valves, msaheads, bolts, etc., complete; \$125.00 each. Provident Chemical Works, St. Louis, Mo.

FOR SALE

Greenhouse Material and Hot-bed Sash, milled of Louisiana Cypress.

Try V. E. Reich's Oxford Putty; specially made for Greenhouse and Hot-bed Sash.
V. E. REICH
1429 Metropolitan Avenue, BROOKLYN, N. Y.
Mention the Florists' Exchange when writing.

Three No. 4

Lord & Burnham Boilers

For Sale Cheap

Apply to

JOHN LANGE'S GREENHOUSES

Humphrey St., ENGLEWOOD, N. J.

Mention the Florists' Exchange when writing.

Use of Sulphur in Rose House. (170) In your issue of May 6 appears an article on roses by Penn, who, for the prevention of mildew at this season, says "it is best to vaporize a small quantity of sulphur by means of an oil stove." I would like to ask if it is necessary to heat the sulphur to the point of melting, or will it vaporize before that? R. H. C.

—The way to vaporize sulphur in a rose house, for preventing or checking the spread of mildew, is to place some flowers of sulphur in an iron pan over an oil stove. Allow the sulphur to melt. When in this state it should be kept stirred, and fanned with a piece of paper. The fanning seems to vaporize it more rapidly. The work should be done on a cloudy day or at night, when the ventilators can be kept closed for two or three hours. A can of water should be kept at hand, so that, should the sulphur ignite, it may be more easily extinguished, as when in a molten state sulphur is very inflammable and, if permitted to burn, is death to insect and plant life as well, and would do far more damage than mildew. PENN.

Heating.

(169) How many lines of 3 1/2-inch pipe will be required to heat a carnation house from 52 to 56 degrees in zero weather by hot water. Size of house: Length, 175 feet; width, 35 feet; ridge, 16 feet, even span; both sides glass, height of plates, 5 feet; both ends glass, size of glass used, 16x24 inches. The house sits on a grade of three feet, the highest end being the greater distance from the boiler. V.

—You mention both sides of house are glass. We assume from this you do not mean the five feet, but possibly two feet under the plate. The boiler in this case will be placed at the lower end of the grade, and your circulation will run from there to the highest point at the far end. The expansion tank can be located at the far end, if you so desire. The pipes can be run at the same grade as the house; that is, a rise of three feet in the total distance. If pipes are run at the same grade as the plate, all through the house, it will insure a proper grade, and all circulations will then be on the level. Fifteen runs of 3 1/2-inch boiler tubes will properly heat this house to from 52 to 56 degrees inside, with the temperature zero outside. Be sure and place, at the boiler end, mains of ample capacity to carry this amount of piping. These can consist of one large main; or you could run from the boiler separate mains of boiler tubes for each circulation. We would not advise, if you run 3 1/2-inch boiler tubes from the boiler, to take off from each connection more than 600 feet of boiler tubes, including both flow and return. U. G. SCOLLAY.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs; other makes; new; cheap.

BOILERS New and second-hand. 2 second-hand steam; first-class condition; will heat 1000 sq. ft. glass, at \$35.00 each.

PIPE Good serviceable second-hand, with Threads: 2-in., 7 cts.; 1 1/2-in., 5 1/4 cts.; 1 1/4-in., 3 cts.; 3/4-in., 2 1/4 cts. New 2-in. Standard, full lengths, with couplings, 8 1/4 cts. ft. Old and new fittings and valves.

STOCKS and DIES New Economy, beat made. No. 1 Threads, 1/4-in., 1 1/2-in., 2-in. pipe, \$3.00. No. 2 Threads, 1 1/4-in., 1 1/2-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New Saunders Pattern. No. 1 2 in. 1 1/2 in. - 2 in. pipe, \$1.00. No. 2 2 in. 1 in. - 2 in. pipe, \$1.30.

STILLSON WRENCHES New. 18-in., grips 1/4-in. - 2-in. pipe, \$1.65; 24-in., grips 1/4-in. - 2 1/2 in. pipe, \$2.40; 36-in., grips 1/2-in. - 3 1/2 in. pipe, \$4.75.

PIPE VISES New. No. 1 Hinged, grips 1/4-in. - 2 in. pipe, \$2.25.

GARDEN HOSE New. 1 1/2-in., guaranteed 100-lbs. pressure, 7 1/2 cts. per ft.; 1 1/4-in. not guaranteed, 4 1/2 cts. per ft.

HOT-BED SASH New. Cypress, 3-ft. x 8 ft., from 2 cts. up; glazed, complete, from \$1.80 up. Second-hand, as good as new, complete, at \$1.25 each.

GLASS

New American, 50 sq. ft. to the box. 10x12, B. Single, at \$1.40; 10x12-12x12, B. Double, at \$2.40; 12x14-12x16-12x20-14x18-14x20-16x16-16x18, B. Double, at \$2.50; 16x20-16x24, B. Double, at \$2.85.

Out our prices on New Gif Press Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Paint, Points, etc.

OLD GREENHOUSES BOUGHT.

METROPOLITAN MATERIAL CO.

Mention the Florists' Exchange when writing.

LOOKING FOR A BUYER

of the very finest kinds, including Cheltoni, Guy Hamilton, W. Duckham, Donald McLeod, and many others.

Why not write me? I can save you money on Chrysanthemums.

CHARLES H. TOTTY, Madison, N. J.

Mention the Florists' Exchange when writing.

Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass.
Mention the Florists' Exchange when writing.

20,000

Chrysanthemums

All standard varieties, including Wm. Duckham and Dr. Enguehard, at \$20.00 per 1000. Samples free.

GERANIUM NOVELTIES of recent years, in bud and bloom, 4 inch pots, \$8.00 per 100.

HENRY EICHHOLZ, WAYNESBORO, PA.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

EASIGOLD The best early commercial yellow ever disseminated. Easy to grow and easy to sell. Will be a standard for many years. Immediate delivery, Doz. \$3.00; 100. \$12.00. June delivery less.

Some **BONNAFFON** from soil, \$2.50 per elegant 100. Rooted cuttings of many other varieties. Let us know your wants. **CASH, PLEASE.**

RIVERSIDE GREENHOUSES
AUBURDALE, MASS.

Mention the Florists' Exchange when writing.

50,000

Chrysanthemums

Dr. Enguehard, 2 1/2 in. pots, \$3.50 per 100. Rooted cuttings, \$2.50 per 100. Amorita, \$3.50 per 100. Rooted cuttings, \$2.50 per 100.

Golden Wedding, Ivory, Appleton, Jerome Jones, Pacific, Polly Rose, Willow Brook, Robinson, Maud Dean, Bonnaffon, white and yellow, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000. Rooted cuttings, \$2.00 per 1000.

50,000 ROSES
Kaiserin, La France, Perle, Hermosa, Clothilde Souper, Couchet (pink and white), Ivory, 3 in. pots, \$1.50 per 100; \$40.00 per 1000.

5,000 MOON VINES
3-in. pots, \$5.00 per 100; 2 1/2-in., \$3.50 per 100.

10,000 COLEUS
\$2.50 per 100; \$20.00 per 1000

SIX BEST BEDDING VARIETIES

J. D. BRENNEMAN
Box 24 HARRISBURG, PA.
Mention the Florists' Exchange when writing.

Chrysanthemum Stock

2 1-4 INCH POTS	
Pink. Per 100	White. Per 100
Wm. Duckham... \$5.00	Convention Hall... \$3.00
A. J. Balfour... 3.00	Ivory... 2.00
Dr. Enguehard... 4.00	Lady Fitzwygram... 2.00
Glory of Pacific... 2.00	Mme. Bergmann... 2.50
Maud Dean... 2.50	Alice Byron... 3.00
Mlle. M. Liger... 3.00	Nellie Pockett... 2.50
Mrs. Coombes... 2.50	Mrs. H. Robinson... 2.50
Nemesis... 2.00	Mrs. Jerome Jones... 3.00
Pink Ivory... 2.00	Mutual Friend... 2.00
Yellow.	Polly Rose... 2.00
Col. D. Appleton... 2.50	Timothy Eaton... 2.50
C. J. Salter... 4.00	White Bonnaffon... 2.00
Cremo... 2.00	White Maud Dean... 4.00
Henry Sinclair... 2.00	Crimson.
Major Bonnaffon... 2.00	Black Hawk... 2.00
October Sunshine... 2.00	Dazzler... 3.00
Yellow Eaton... 5.00	John Shrimpton... 2.50

EDW. J. TAYLOR, SOUTHPORT, CT.

Mention the Florists' Exchange when writing.

JUST ABOUT NOW.

For \$5.00 I will send you 100 assorted **CHRYSANTHEMUMS**

Newport, R. I.

News Notes.
M. B. Faxon, seedsman, has some splendid beds of his White House pansies in full bloom which have attracted a great deal of favorable attention.

The Rhode Island Nurseries report a much better business than in past years. Everybody wants large stock for immediate effect, and this class of goods is always limited.

Mr. and Mrs. Carl Jurgens have returned from a short vacation trip to New York.

William B. Scott & Company have been doing especially well with bedding plants, and report the market prices as follows: Geraniums, \$1.25; heliotropes, \$1.50; double petunias, \$2.50; marguerite carnations, 75c; salvia, 50c; forget-me-nots, 60c; and large vincas, \$3 a dozen.

The George A. Weaver Company have placed a great quantity of bean poles and brush for sweet peas, and garden peas, the past week. Mr. Summers of Sharon, Mass., has severed his connection as seedsman with this firm.

Asparagus is 20 cents per pound at retail, and rhubarb 3c for a like quantity. Asparagus is not bunched in this market, but sold loose as cut, by the pound. Last year the highest price obtained at retail was 35c a pound, and the lowest 12 1/2c.

A very large quantity of hardy rhododendrons are being received, and planted out at "Oakland Farms," the estate of Mr. Alfred G. Vanderbilt.

M. B. Faxon has been with his wife to Boston, Mass., attending the wedding of Mrs. Faxon's sister.

F. W.

SPRINGFIELD, MASS.—N. F. Higgins has purchased the store and show-rooms of C. F. Fairfield, on State street, and will take possession June 1. Mr. Higgins has been employed by the Springfield Cemetery Association, in charge of their greenhouses and garden work, for several years. He has tendered his resignation, that he may devote his entire time to the new enterprise. Mr. Fairfield has been connected with the local florist business for nearly twenty years, first as grower, and for the last ten years or so conducting a successful flower store, to which is attached a fine showroom. He expects to find a business opening in New York.

ROOTED CUTTINGS LAST CALL

This Stock Will Take Plants Quick
Per 100 prepaid.

Ageratum, Orney, 50c per 100. Salvia, Bonfire and Splendens. Giant Marguerite Daisy, white, 75c per 100; \$5.00 per 100. Alternanthera, fine, 2 in., 1 1/2c.

50,000 ASTERS NOW READY
Earliest White; Queen of Market, mixed; Giant Comet, mixed; Victoria, giant mixed; Semple's Branching in white, pink and purple. Nice Stock. 40c per 100; \$3.50 per 1000; prepaid for 5c. per 100 extra. Cash.

BYER FLORAL CO., Shippensburg Pa.
Mention the Florists' Exchange when writing.

Surplus Iowa-Grown Stock

GERANIUMS Lanth, Nutt, Vland, Hill, Poitevine and Mme. Sallerol, from 2 1/2 in. and 2 3/4 in. pots, \$2.50 and \$3.50 per 100, \$20.00 and \$25.00 per 1000.

SALVIA Bonfire and St. Louis, from 2 1/2 in. and 3 in. pots, \$3.00 and \$5.00 per 100; \$25.00 and \$40.00 per 1000.

CANNAS Chas. Henderson, F. Vaughan, Mme. Crozy and Escandale, from 3 1/2 in. and 4 in. pots, \$8.00 and \$7.00 per 100.

AGERATUM P. Pauline, from 2 1/2 in. and 2 3/4 in. pots, \$2.50 and \$3.00 per 100.

ASTER SEEDLINGS Semple's Branching and Carlson's Mixed 30 cts. per 100; \$2.50 per 1000.

GIANT PANSIES Extra strain, in bud and bloom, \$1.25 per 100; \$10.00 per 1000. Cash with order, please.
N. O. WARD, 717 COOK AVENUE, COUNCIL BLUFFS, IOWA
Mention the Florists' Exchange when writing.

English Ivy

4 in., 2 plants in a pot, \$7.00; 2 1/2 in., \$2.50; 2 in., \$2.00. English Ivy Variegated, 2 in., \$2.00. Vinca Var. Major, 2 in., \$1.75. Rooted cuttings, 75c. Mme. Sallerol Geraniums, 2 in., \$2.00. German Ivy, 2 in., \$2.00. Glechama, 2 in., \$2.00. Sweet William, 2 1/2 in., \$2.00. SEED-LINGS. Gaillardia, gr. B., mixed; Sweet William, double mixed; Cosmos, tall mixed; Hollyhock, mammoth; extra choice mixed; Pansy, extra choice mixed; Aster, Imp. Victoria, blue; Aster, Imp. Victoria, White, 25c per 100. Cash on C. O. D.

J. H. DANN & SON, Westfield, N. Y.
Mention the Florists' Exchange when writing.

GERANIUMS

Extra large plants from 4 in. pots, in bud and bloom.
Double General Grant, John Doyle, S. A. Nutt and Jerome, \$8.00 per 100.

S. J. REUTER, Westerly, R. I.

Mention the Florists' Exchange when writing.

SCARLET SAGE

2 in., \$2.00 per 100. Per 100
Verbena, 2 in., \$2.00
Alyssum, Little Gem, 2 in., \$2.00
Vinca Variegata, 2 in., \$2.00
" " 3 in., \$2.00
Also Petunias, Fuchsias, Asters, Cosmos, Chrysanthemums, Cryptomerias, Smilax, etc.

E. I. RAWLINGS, QUAKERTOWN, PA
Mention the Florists' Exchange when writing.

ASTER PLANTS

Very strong and healthy.
Semple's, Carlson's, Victoria and Praonia Perfection, 40c., per 100; \$3.00 per 1000.

C. M. NEWMAN, Centre Market, Charleston, S. C.
Mention the Florists' Exchange when writing.

25,000 GERANIUMS

Extra fine plants, S. A. Nutt, A. Ricard, Poitevine, Gloire de France, and other good varieties, 3 1/2 in. pots, \$8.00 per 100; 4 in. pots \$7.00 per 100.
Cash with order.

W. C. STICKEL, Magoun St., NORTH CAMBRIDGE, MASS.
Mention the Florists' Exchange when writing.

VINCA VARIEGATA

500 5 inch pots, \$12.00 per 100;
500 4 inch pots, \$10.00 per 100.
Tuberous-rooted BEGONIAS
4 inch pots, \$1.50 per dozen.
Cash with order.

PAUL BRUMMER, CORONA, L. I., N. Y.
Mention the Florists' Exchange when writing.

YOUR OPPORTUNITY

Nice Double Geraniums, 4 in. pots, \$7.00 per 100. Vinca Variegata, 4 in. pots, \$10.00 per 100. Best varieties of double Asters, mammoth Verbena and Salvia, in soil, 14 plants in box, \$15.00 per 100 boxes. Large field-grown Panicle, bud or bloom, elegant collection, \$1.25 per 100, \$10.00 per 1000. Cash with order.

C. S. CHASE, Dighton, Mass.
Mention the Florists' Exchange when writing.

COLEUS Ready to use

Verschaffeltii and Golden Bedder. Strong bushy plants from soil, \$1.70 per 100. C. O. D. or cash with the order, 8 per cent. off. See advt., Alternanthera, Panicle, etc., page 684.

DANIEL K. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

VIOLETS

PRINCESS OF WALES
Strong young plants, \$2.00 per 100; \$15.00 per 1000. 500 at 1000 rate.

Chrysanthemum Cuttings

100,000 now in the sand. All the standard varieties \$10.00 per 1000.

WM. SIM, Cliftondale, Mass.
Mention the Florists' Exchange when writing.

\$1.50 per 100

ii Fine 2 Inch Stock, Some in Bloom
Rotted Cuttings Per 100
Ageratum, Pauline, Gurney, \$0.50
Alvia, Bonfire, Splendens, Silverspot, .90
Petunia, 3 1/2 in. to finest, Fuchsia,
5 kinds Parle Daisy, .75
Hardy Plinks, 6 sorts, .75
Feverfew Gem, .75
Alternanthera, red and yellow, .50
Lolotrope, Stevia Serrata, .75
Jolens, 12 best bedders, 1000, \$5.00, .60
Nasty Miller,
Golden Feverfew
Abutilon, Eclipse, Golden Belle, .30
Mimulax Seedlings, .30
Oble Daisy, Snowball, Longfellow, wintered
over, in bud and bloom, 1000 for \$2.50.
Vinea Variegata, R. C., 90c. per 100.
Laters, Semplee, white, pink, lavender, purple,
crimson, \$5.00 per 1000. Fine stock.
Geraniums, nice 2 1/2 in. stock, 2 cts.
Cash, R. G. Prepaid. Direct all orders plainly to
BYER BROS., Chambersburg, Pa.
Mention the Florists' Exchange when writing

Vinea Variegata

3 1/2 and 4 in. pots, heavy plants, with
long vines, \$7.00 and \$10.00 per 100.

20 BUSHEL

Stowell's Evergreen Sweet Corn
(Specially Selected)

PRICES ON APPLICATION

B. F. BARR & CO.
Lancaster, Pa.
Mention the Florists' Exchange when writing

IN BUD AND BLOOM

Geraniums, S. A. Nutt, 3 1/2 in. pots, \$5.00 per
100; Rose Geraniums, 3 1/2 in. pots, \$5.00 per 100;
Geraniums, mixed good varieties, 3 1/2 in. pots,
\$5.00 per 100. Cannas, Chas. Henderson, 4 in.
pots, \$5.00 per 100. Verbenas, 3 in. pots, good,
\$3.50 per 100. Petunias, single large flowering, 3
in. pots, \$2.50 per 100. Heliotrope, Chiefsta and
Queen of Violets, 3 1/2 in. pots, \$5.00 per 100. Nas-
turtium, mixed, 3 in. pots, \$2.50 per 100. Ager-
atum, dwarf blue, 2 1/2 in. \$2.00 per 100. Salvia,
splendens, 2 1/2 in. pots, \$2.00 per 100. Vines,
variegata, 2 1/2 in. pots, \$2.00 per 100. Heliotrope,
2 vers., 2 1/2 in. pots, \$2.00 per 100. Cobaea Scand-
ens, 3 in. pots, \$3.00 per 100. Thunbergia,
2 1/2 in. pots, \$2.00 per 100. Lobelia, 2 1/2 in. pots,
\$2.00 per 100. Rose, Crimson Rambler, 2 1/2 in.
pots, \$4.00 per 100.
Cash with order.

WM. J. CHINNICK, Trenton, N. J.
Mention the Florists' Exchange when writing.

BEDDING PLANTS

Per 100 1000
Salvia, 2 1/2 in. \$2.50 \$20.00
Heliotrope, 2 1/2 in. 2.50 20.00
" 4 in. in bloom.. 7.00 60.00
Single Petunias, 2 1/2 in. 2.00 18 00
Tuberous Begonias, extra fine plants
from 4 in. pots, \$10.00 per 100.

Larchmont Nurseries
LARCHMONT, N. Y.
Mention the Florists' Exchange when writing.

GERANIUMS
In Bud and Bloom

B. A. Nutt, Beante Poitevine, La Favorite,
Brunanti, R. Brett, several other varieties, \$5.00 per
100; \$50.00 per 1000.
Fuchsias, in bloom, 4 in. pots, \$3.00 per 100.
Heliotrope, in bloom, \$8.00 per 100.
Salvia, in variety, \$5.00 per 100.
Cannas, Queen Charlotte, green leaved, and
Robusta, red leaved, \$6.00 per 100.
English Ivy, 3 in. pots, \$3.00 per 100;
Feverfew, 2 1/2 in. pots, \$2.50 per 100; 4 in. stock,
\$4.00 per 100.
Bine Lobelia, 2 1/2 in. pots, \$2.50 per 100.
Double Petunias, 4 in. pots, \$5.00 per 100.
Hydrangeas, 4 in. pots, \$3 per 100.
Coleus, rooted cuttings, Golden Bedder and
Verschaffeltii, 80c. per 100; \$5.00 per 1000; 2 1/2 in.
pots, \$2.00 per 100.
At above prices the selection to remain with us.
Cash must accompany the order.

J. E. FELTHOUSEN, Schenectady, N. Y.
Mention the Florists' Exchange when writing.

Cyclamen Plants Seed of only selected
flowers and well built
stock. None better.
Once transplanted, \$2.00 per 100; \$18.00 per 1000.
Twice transplanted, \$3.00 per 100; \$25.00 per 1000.
C. WINTERICH, DEFIANCE, OHIO
Mention the Florists' Exchange when writing.

VIOLETS Marie Louise,
sand rooted
cuttings;
\$1.50 per 100; \$15.00 per 1000.

DAISIES Snowball and Longfel-
low; 2 1/2 in. pots, \$1.50
per 100; from soil, \$1.00 per 100.

GERMAN IVY 2 1/2 in. pote,
\$2.50 per 100.
Cash with order.

O. H. HOUSE, Babylon, L. I., N. Y.
Mention the Florists' Exchange when writing.

VERSCHAFFELTII COLEUS

2 in. and 2 1/2 in. pots, \$2.00 per 100; \$18.00 per
1000; rooted cuttings, 60c. per 100. Golden
Bedder Coleus, 2 in. and 2 1/2 in., \$2.00 per 100;
rooted cuttings, 60c. per 100. Assorted Coleus,
2 1/2 in., \$1.50 per 100. S. A. Nutt Geraniums,
2 1/2 in., \$3.00 per 100. Mine, Sullerai Gerani-
ums, 3 in., \$5.00 per 100. Assorted Geraniums,
3 in., \$4.50 per 100. German Ivy, 2 1/2 in., \$1.50
per 100. English Ivy, 2 1/2 in., 3c.; 3 1/2 in., 6c.
each. Ampelopsis Veitchii, 2 1/2 in., \$4.00 per 100.
CASH, PLEASE.

R I. HART, Hackettstown, N. J.
Mention the Florists' Exchange when writing.

PANSIES Extra fine plants, twice
transplanted, \$5.00 per 1000.
Geraniums, leading varieties, bud and bloom,
4 in., \$9.00 per 100.
Verbenas, Mammoth, bud and bloom, 2 1/2 in.,
\$1.50 per 100; \$12.00 per 1000.
Coleus, mixed, \$1.50 per 100.

HILL TOP GREENHOUSES 15-16 Gray Ave.,
UTICA, N. Y.
Mention the Florists' Exchange when writing.

PANSIES
THE JENNINGS STRAIN.

Fine stock, choice colors. Cold frame plants in
bud and bloom, ready March 20. Price \$1.50 per
100. No less in quantity. By express only. Cash
with order.

E. B. JENNINGS, Lock Box Southport, Conn.
254.
Grower of the Finest Panels.
Mention the Florists' Exchange when writing.

Pansy Plants

From our well-known strain, fine plants in
bloom, \$1.00 per 100; \$8.00 per 1000. Plants ready to
bloom, \$3.50 per 1000.

DAISIES (Bellie) red and white, \$2.00 per
1000.
Ageratum, Sweet Alyssum, Salvia, Cigar
Plants, Double Petunia, and Chrysanthem-
ums, out of 2 1/2 in. pots, \$2.00 per 100; \$17.50
per 1000.

J. C. SCHMIDT CO. BRISTOL, PA.
Mention the Florists' Exchange when writing.

PANSIES—200,000

Fine, large, transplanted plants, prize strain of
the famous large flowering Bagnote, Cassiers, Odier
and Trimardant. Stocky plants, from cold frame.
50cts. per 100, by mail; \$3.00 per 1,000, by express.
In bud and bloom, \$1.00 per 100; \$8.00 per 1,000.
Verbenas, Mammoth, R. C., 60c. per 100, \$5.00
per 1000; 2 1/2 in. pots, in bud and bloom, \$1.50 per
100; \$12.00 per 1000. Stocks, Double White for
Easter, \$1.00 per 100, \$8.00 per 1000; Daisies,
Doubler White, 75c. per 100, \$5.00 per 1000; Lobelia,
Dwarf Blue, \$1.00 per 100; Ageratum, Dwarf
Blue, 60c. per 100. Lobelia, in bud and bloom,
3 in., \$4.00 per 100. Coleus, mixed colors, 2 1/2 in.,
\$1.50 per 100.
Heliotropes, bud and bloom, 4 in., \$6.00 per 100.
HILLTOP GREENHOUSES, 15-16 Gray Ave, Utica, N. Y.
Mention the Florists' Exchange when writing.

PANSIES
75,000

Fall Transplanted, large plants, in
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New Edition.

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200,000 Bedding Plants

- First Class Stock that will please
30,000 Geraniums, Nutt, Ricard, Double Gen. Grant, Buchner and Poitevine, strong 4 in., in bud and bloom, \$5.00 per 100.
Verbenas, in bud and bloom; Salvia Splendens and Bonfire; Petunia, fringed; Ageratum, blue; Lobelia, Alternantheras, and Coleus, red, yellow, and fancy mixed; all strong 2 to 2 1/2 in., \$1.50 per 100; Verbenas, Petunias, and Salvias, strong, 3 in., \$2.50 per 100.
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A SUBSCRIBER.—We would recommend you to purchase a book giving the rudiments of gardening. If you will send your address, we shall be glad to furnish a catalogue of such books as would be most useful to you.

Funkia, or Day Lily.

(159) Kindly give me the botanical name of funkia or day lily. It has a striped leaf, green and yellow, and is used largely for bordering, growing not over 9 inches in height. Also can this plant be made to seed? H. L. P.

—Funkia is the botanical name of the plant referred to, but as there are several varieties of Funkia variegata, we would require to know the color of both flower and foliage to be able to distinguish the variety.

The quickest method of propagation is by division; though seed can no doubt be obtained.

Spitzenberg Apple.

(160) Kindly inform me what the Spitzenberg apples are. Any extra care needed in their cultivation? P. V.

—The Spitzenberg apple is a Winter variety, rich in flavor, round and slightly conical, color red, faintly striped; rather shy in fruiting in some sections.

Old Violet Soil for Carnations.

(161) Would you advise using one-quarter old violet soil to three-quarter fresh soil, thoroughly mixed, for carnations? Which do you think would be the better to use, to obtain the best results—the above compost, or a compost consisting of one-quarter good cow manure to three-quarters of sod stacked last fall? The violet soil has grown violets one year.

—We would not advise using any of the old violet soil in the compost for next season, either for carnations or any other crop that is planted out. The cow manure and sod stacked last Fall make an ideal soil and could be increased in bulk by adding another fourth of the sod, so as to make the proportions one to four of manure and soil, and still be a first-class soil for carnations.

Pansies and Fertilizers.

(162) Is it any good to grow pansies on the same ground after two years—regular Flatbush ground, a good virgin soil (sandy)? Is it a good idea to leave the ground with no crop till the time to plant in the pansies? Now I am digging up the beds, having before thrown over the beds the manure that was between them. I intend to dig in a good thickness of cow manure and horse manure later on. Would a little sprinkling of sulphate of ammonia added be of any benefit? Is there any kind of artificial fertilizer that will induce flowers instead of leaves? What would be the best kind of fertilizer to mix with the manure, to bring out the full benefit of it? E. R.

—Pansies can be grown on the same soil year after year with reasonable care in keeping the soil in good condition. If one can spare the ground between crops, it would, of course, be

ENGLISHIVY

- Fine plants, out of 6 in. pots, 25c.
Out of 4 in. pots, 10c.
FORGET-ME-NOT . . . \$4.00 per 100
DAISIES . . . 2.00 "
PANSIES . . . 2.00 "
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THE BEST WHITE DAHLIA IN EXISTENCE. My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 5 ins. in diameter; a wonderful bloomer, stems 12 to 18 in. long; plants 3 to 3 1/2 feet high. The finest plants obtained from cuttings. Good strong stock from 2 1/2 in. pots, \$3.00 per dozen \$20.00 per 100. Delivery May 1st. Orders filled in rotation. Early booking suggested. Highly commended by the American Institute and the New York Florists' Club. A. L. MILLER, Jamaica Avenue, Brooklyn, N. Y. Mention the Florists' Exchange when writing.

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- In 2 1/2 inch pots, 3 cts. each.
Dbl. Sweet Alyssum Kenilworth Ivy
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Dwarf Cosmos Semple's Asters
Dwarf Collmer Popplee
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Clumps from field, \$10.00 per 100; Only a few left. Dracena Indivisa, From 15 cts. up to 50c. each Double White Geraniums, with 2 and 3 blooms large bushy plants, \$10.00 per 100; 1 bloom, \$8.00 per 100. Single and double Petunias, in bloom \$1.00 per doz. K. E. JUUL, 27 Broad St., Elizabeth, N. J. Mention the Florists' Exchange when writing.

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- Stock sent C. O. D. For cash with order 6 per cent off.
Versehaeltii, G
Redder, Corona, red broad gold border, per 100, 60c.
Fancy, best bright, 60c.
Giant, many extra fine, showy kinds, 80c.
Lots ready of all strong, branching, from soil for immediate use
Fancy, \$1.60; all other kinds, \$1.70 per 100
Smaller, fine stock, half price of the strong
ALTERNANTHERA Falctga, transplanted
Red Rng., very fine \$8.00.
A. Nana, strong bushy plants, \$6.00 per 1000.
Same rate per 100 by express.
PANSIES Very choice, \$1.00 per 100
Ask for blooms, sent free.
GERANIUMS, for stock ready June and later.

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- Giant Purity, Hohenzollern, Cream and dark blue, 100 1000
Cobaea Scandens, 2 in. pots \$1.00 \$9.00
Aster, from seed bed, by mail . . . 10 2.50
Purity, Semple, 3 colors, Hohenzollern, 3 colors; Truffaut, 3 colors; Victoria, 3 colors.
Moonvine, 2 in. 2 50
Cobaea Scandens, 2 in. 2 50
Dracena Indivisa, 3 and 4 in., 16 to 18 in. \$4.00 and 6 00
Asparagus Sprengerii, 2 in. 2 50
Salvia, dwarf and tall, 2 in. 2 00
Cosmos, early dwarf and giant-flowering, 2 in. 1 00
Zinnias, finest double, 2 in. 1 00
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GERANIUMS Standard varieties, true to name, first-class growth stock from 4 in. pots, \$7.00 per 100; \$65.00 per 1000
Satisfaction Guaranteed
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SURPLUS STOCK OF
Shasta Daisies
Have a few thousand fine plants left. They are divisions of selected Stock, all are strong plants and will give a good crop of flowers this season, besides making fine stock plants for next season.

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Fine plants, mixed colors, from 3 1/2 in. pots, \$6.50 per 100. Cash with order.

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4 in. pots, \$3.00 per 100. Salvia Splendens and Bonfire, 3 1/2 in. pots, \$4.00; 2 1/2 in. pots, \$2.00 per 100.

GERANIUMS
S. A. Nutt, John Doyle, Mme. Buchner, Miss F. Perkins, 3 1/2 and 4 in. pots, \$5.00, \$6.00 and \$7.00 per 100.

Bedding Plants
Geraniums, scarlet and pink varieties, the newest and best bedders, 4 in. pots, in bud, and bloom, \$6.00 per 100.

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IN BUD AND BLOOM
A. Ricard, S. A. Nutt, M. Chevalier, F. Perkins, Marvel, Mrs. Landry, Jean Viaud, etc., 4 in. plants, \$3.00 per 100.

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W. J. & M. S. VESEY, Fort Wayne, Ind.
Mention the Florists' Exchange when writing.

hetter, as a rest is good for any soil, no matter how fertile it may be. At the same time, a Summer crop can be grown if necessary, and that may be followed with pansies quite satisfactorily. As the beds have already received a good dressing of manure, it is hardly possible that sulphate of ammonia would improve the soil for pansies, as that rather tends to an increase of roots and foliage and would promote a soft, heavy growth, not desirable in pansy culture.

How far apart should pansies be planted to keep them from mixing? Last Summer I saved seed from plants, planted about 15 feet apart, but the flowers from those seeds are all different from those on last year's plants. Why is it that most of the plants having the finest flowers give no seed? READER.

-In order to produce seed of the choicest strains of pansies, it is not so much the distance apart the plants are put, as it is the careful roguing that must be done that enters into the question. Where one intends saving his own seed, care must be taken that every undesirable variety be pulled out and thrown away as soon as the first flower is seen. By pursuing this method pansies can be kept up to their own standard of excellence and may be improved; but if ordinary and undesirable sorts are allowed to flower, then, of course, the pollen from them will get transmitted by insects to the choicer kinds and the strain will deteriorate.

Cosmos.
(163) Cosmos plants started in March are now in full bloom. Will they continue to grow after being set in the garden and make large Fall blooming plants? OHIO READER.

-By pinching out all the flowers and buds of the cosmos, and then planting them outdoors, they will make a good growth through the Summer, and should flower freely again in the Autumn.

Calceolarias.
(165) I have some fine, thrifty calceolarias in 3-inch pots. The center is throwing up a bud on many of them. I do not want these to come into bloom until Fall. Can I pinch them back and stop them, or had I better work them along and have them bloom out of doors? F. G. B.

-The calceolarias can be held to bloom later, by pinching out the buds and re-potting them into larger pots so as to keep them growing.

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150,000 Stocks, white, cut flowers, 50,000 Aster Plants, 50,000 Verbena, 50,000 Stocks, various colors, plants, Bride, Bridemaid, Golden Gate, Mrs. Abel Chatsenay and American Beauty. Also 5,000 1-year-old American Beauty. Prompt Attention Given All Orders. WORCESTER, MASS. Mention the Florists' Exchange when writing.

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10 Var., fine plants, my selection, 3 in. pots \$5.00
Alternanthera, red and yellow..... 2.00
Plumose Seedlings..... 1.50
Sprangeri, ready July 1st..... 1.25
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Pansy Seed, ready in July, \$1.00 the oz.
Asparagus Plumose, 2 1/2 in. pots..... 2.00
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CABBAGE in any quantity, Windingstedt, Early All-Head, Sure-Head, Succession, Early and Late Flat Dutch, Hollander, etc. \$1.00 per 1000; \$8.50 per 10,000.
PARSLEY Moees Curled, 25 cts. per 100; \$1.25 per 1000.
LETTUCE Big Boston, Boston Market, 25 cts. per 100; \$1.00 per 1000.
TOMATOES Earliana, Chalk's Early Jewell, Dwarf Stone, Dwarf Champion, etc. 30 cts. per 100; \$2.00 per 1000.
PEPPERS Bull Nose, Sweet Mountain, Ruby King, 25c. per 100; \$2.00 per 1000.

Miscellaneous Plants
2 1/2-in. stock in A1 condition.
Ageratum, Stella Gurney..... Per 100 1000
Alyesum, Oltant Double..... 40c. per doz.; \$2.00 \$17.50
Alternanthera, red and yellow..... 40c. per doz.; 2.00 17.50
Aquillegia (Columbine), single mixed..... 4.00 15.00
Cantebury Bell, single and double blue..... 1.50 12.50
Carnations, Dwarf hardy mixed..... 1.50 12.50
Centaurea gymnocarpa..... 1.50 12.50
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Dahlia plants, in var..... 2.00 15.00
Delphinium Formosum..... 1.50 12.50
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Hardy Chrysanthemums, small-flowering varieties..... 2.00 17.50
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2,000 pink Beante Poitevine, 4 inch, good, healthy stock, in bud and bloom, 6c. 2,000 Gen. Grant, 6c.
3,000 Salvia, 3 in., 5c.
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2,000 Begonia Vernon, 2c.
1,000 Stocks, 6c.
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5,000 Cannas, Alphonse Bouvier and Queen Charlotte, 6c.
1,000 Rose Geraniums, 6c.
1,000 Ivy Geraniums, 6c.
2,000 Asters, 2c.
20 Specimen Kentias, \$10.00 each.
All grown for home trade, but surplus stock, in fine condition.
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12 Varieties, 2 1/2 in. pots..... \$2.00
Seedling Petunias..... 2.50
Centaurea Gymnocarpa..... 2.00
Primroses, Chinese Obconica and Foresti, July 1st..... 2.00
COLEUS

MISCELLANEOUS PLANTS
(Continued) Per 100 1000
Heliotrope, good varieties..... \$2.00 \$17.50
Ivy Geraniums, in var..... 3.00
Lemon Verbena..... 2.50 17.50
Lantanas, 10 varieties..... 2.00 17.50
Maranta Massangana..... 4.00
Mourvines, white, 60c. per dozen..... 3.00 25.00
Nasturtium, 4 vars..... 1.50
Nymphæa, Odorata gigantea, 50c. doz..... 3.50
Petunias, Dreer's double mixed 2.50
" Dreer's superb single mixed 2.00 15.00
Sage, Hol's Mammoth..... 2.00 15.00
Salvias, in variety..... 2.00 17.50
Smilax, strong..... 2.00 15.00
Swalsona Alba and Rosea..... 2.00 17.50
Vinca, (Madagascar Periwinkle)..... 1.50

GERANIUMS
Young Stocky Plants from 2-in. pots
DOUBLE. Per doz. 100 1000
Alph. Ricard..... \$0.40 \$2.00 \$20.00
Bruant..... .40 2.00 20.00
Centaure..... .40 2.00 17.50
Double Gen. Grant..... .40 2.00 17.50
Gloire de France..... .40 2.00 17.50
Jean de la Brete..... .50 3.00
Jean Viaud..... .40 2.00 17.50
Mme. Jaulin..... .40 2.00 17.50
Mme. Landry..... .40 2.00 17.50
Marquis de Montmort..... .40 2.00 20.00
Marque de Castellane..... .50 3.00 25.00
Miss Frances Perkins..... .40 2.00 17.50
S. A. Nutt..... .40 2.00 17.50
Ville de Poitiers..... .50 4.00
SINGLE.
C. W. Ward..... .60 4.00
Granville..... .40 2.00 17.50
Mme. Bruant..... .40 2.00
Mrs. E. G. Hill..... .40 2.00 17.50
Queen of the West..... .40 2.00 17.50
Our selection of 10 varieties, 500 for \$37.50; 1000 for \$15.00, cash.

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GERANIUMS
FINE strong plants from 4 in. pots, in bud and bloom. S. A. NUTT, Double GEN. GRANT, VIADD, \$5.00 per 100. Rooted Cuttings of ALICE BYRON, MRS. COOMBES, HALLIDAY and JEROME JONES, \$1.00 per 100. CASH.

GERANIUMS
BEST standard varieties, in bud and bloom, for immediate sale; stocky plants; state colors wanted; from 4-in. pots, \$3.00 per 100, \$75.00 per 1000. Salvia (Scarlet Sage), low growing, everblooming variety; fine plants in bloom for immediate sale, same price as Geraniums. Cash with order.
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Big lot of rooted cuttings ready. S. A. Nutt, Ricard, Poitevine, Gen. Grant, Double Bruant, Buchner, Montmort, \$10.00 per 1000. S. A. Nutt, 3 in., ready June 5, \$4.00 per 100; \$35.00 per 1000.
COLEUS Golden Bedder, 2 1/2 in. fine plants, \$2.00 per 100. CASH WITH ORDER.

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THE PARKER GREENHOUSES, Norwalk, Ohio.
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Bronze and Green Galax \$1.00 per 1000
Bouquet Green \$7.00 per 100 lbs.
Laurel Festooning 5 cts. and 6 cts. per yard.
Leucothoe Sprays \$1.00 per 100.

Sphagnum Moss 50 cts. per bag; \$1.00 per bbl.; \$2.50 per bale.
Green Moss \$1.00 per bbl.
Laurel Wreaths Extra heavy, \$3.00 and \$4.00 per doz.
New Decorative Green Alabama Huckleberry, branch better than Smilax for May and June Decorations, \$7.00 per case.

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Order early. Owing to late Spring the supply of **FERNS** will be limited.

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Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 1/2 in. pots in crate, \$4.88	1200 7 in. pots in crate, \$4.20
1500 2 1/4 " " " 5.25	60 8 in. pots in crate, 3.00
1000 3 " " " 5.00	48 9 in. pots in crate, \$3.60
800 3 1/2 " " " 5.80	24 11 " " " 3.60
500 4 " " " 4.50	24 12 " " " 4.80
320 5 " " " 4.51	12 14 " " " 4.80
144 6 " " " 3.16	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
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BOUQUET GREEN WREATHS and **LAUREL WREATHS**, all sizes and prices.

Laurel Festooning, extra fine and full, 4c., 5c., and 6c. per yard, and made fresh daily from the woods. Send for **Laurel Wreaths for Memorial Day use.**

Send us your orders for Memorial Day now and you will get the best to be had and at rock bottom prices. Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.

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Wholesale Prices of Cut Flowers, New York, May 19, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	10.00 to 20.00	Carnations	Inf'r grades, all colors.....	.30 to .50	
	" extra	8.00 to 10.00		STANDARD	White.....	.50 to .75
	" No. 1	6.00 to 8.00		VARIETIES	Pink.....	.50 to .75
	" No. 2	4.00 to 5.00			Red.....	.50 to .75
	" No. 3	1.00 to 2.00			Yel. & Var..	.50 to .75
	Bride, 'Maid, (fancy—spe'l)	2.00 to 4.00			" FANCY—	White.....	.75 to 1.00
	" extra	1.00 to 2.00		" (*The highest	Pink.....	.75 to 1.00
	" No. 1	.50 to 1.00		grades of	Red.....	.75 to 1.00
	" No. 2	.50 to 1.00		standard var.)	Yel. & Var.	.75 to 1.00
	Golden Gate.....	1.00 to 4.00		{ NOVELTIES.....	1.00 to 2.50	
Liberty.....	3.00 to 15.00	LILY OF THE VALLEY.....	.25 to 3.00			
Meteor.....	1.00 to 4.00	MIGNONETTE, ordinary.....	.25 to .50			
Mme. Abel Chatenay.....	1.00 to 4.00	lancy.....	2.00 to 3.00			
ADIANTUM.....	.50 to .75	NARCISSUS.....	.25 to .30			
CROWANUM.....	.50 to 1.50	" Ordinary Yellow..	.30 to .50			
ASPARAGUS.....	25.00 to 50.00	" Double Yellow..	.30 to .50			
" Sprengerl, bunches	6.00 to 10.00	PANSIES, per dozen bunches...	.35 to .50			
CALLAS.....	3.00 to 4.00	ROMAN HYACINTHS.....	.50 to .75			
CATTLEYS.....	20.00 to 35.00	SMILAX.....	10.00 to 12.00			
DAISIES.....	.35 to .50	STOCES, per bunch.....	.10 to .25			
GLADIOLUS.....	4.00 to 6.00	SWEET PEAS.....	.35 to .50			
LILAC, per bunch.....	.15 to .35	TULIPS.....	.50 to 1.00			
LILIES.....	2.00 to 3.00					

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ALL VARIETIES OF CUT FLOWERS IN SEASON

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CUT FLOWERS AT WHOLESALE

Receiving Daily
Fine
PRES. CARNOT
KAISERINS
METEORS
BEAUTIES
Etc.

New York.

News of the Week.
The long established florist busi-
ness of Ditzenberger Bros., at Seventy-
fifth street and Fifth avenue, Brook-
lyn, is about to be discontinued, and
the greenhouses done away with. On
Thursday, June 1, the houses, together
with all the stock contained therein,
will be sold at auction; John P. Cleary
will be the auctioneer.

On Tuesday evening last, a little
after 9 o'clock, fire broke out in the
dentist's parlors located over Weir's
flower store, corner Fulton street and
Elm place, Brooklyn. The fire did con-
siderable damage, but through the ef-
forts of the firemen Weir's store prac-
tically escaped injury, and business
continues as usual.

The plant auction rooms are in their
busiest season, and a vast number of
bedding and other plants are disposed
of at each of the twice-a-week sales.

The statue of George Washington, in
front of the Sub-Treasury Building in
Wall Street, was decorated with a
bunch of lilies one day this week. A
Columbus avenue florist's tag was at-
tached to the bouquet, and bore the in-
scription, "To G. Washington." The
name of the donor could not be learned.

Harry Hoffmeier, of Broadway and
Eighty-third street, was visiting his
former home at Easton, Pa., last week.
Those who handle the Queen of
Edgely rose say that the demand for
it is better than that for American
Beauty.

Clucas & Boddington, seed mer-
chants, 131 West 23d street, have just
received from Colombia a shipment of
Cattleya Trianae through their collect-
ing agent, A. Mertz.

We understand that some of the rose
growers in Madison, N. J., are selling
flowers direct to retailers in Jersey
towns at \$3 per thousand. What a
cinch those retailers must have!

The sympathy of the craft will go
out to Julius H. Zschorna, of 627 De
Kalb avenue, Brooklyn, whose daugh-
ter, Louise, aged 17 years, died of
pneumonia on Thursday, May 11th, af-
ter two days' illness. Miss Zschorna
had graduated recently from a busi-
ness college, and her death was a sad
blow to her parents and a wide circle
of friends. The interment took place
on Sunday, May 14th, in Mount Olivet
Cemetery, Maspeth, L. I.

At the Spring show held in the New
York Botanical Garden, Bronx Park,
May 10 and 11, F. R. Pierson Co., Tar-
rytown, N. Y., won first prize in each
of the following classes: Collection of
flowering shrubs, collection of tulips,
follage and flowering plants, ferns,
rhododendrons, cut roses, narcissi. Ju-
lius Roehrs, Rutherford, N. J., was first
for group of orchids and for cut flow-
ers. Lager & Hurrell, Summit, N. J.,
won second for orchid group, and first
for cut orchids. Frank Weinberg,
Woodside, L. I., took first for succu-
lents, and Louis Dupuy, Whitestone,
L. I., received a special prize for his
exhibit of *Crassula hybrida coccinea*.

Miss Gustaveson, who for several
years has conducted a retail flower
store in Fifth avenue, Brooklyn, near
Bergen street, has sold out to Mrs.
Wilson, who will continue the business.

William Jurgens, wholesale grower,
Newport, R. I., was in town Wednes-
day.

Cincinnati.

News Items.
There is no improvement in busi-
ness, and nothing in sight before Mem-
orial Day to clean up the vast quan-
tity of stock coming in. American
Beauty is selling better than anything
else.

We are still having heavy storms
nearly every day, but, fortunately, not
much hail. The Ohio River is now
higher than it has been any time dur-
ing the year.

I wish to correct an error made by
the Commercial Tribune and copied by
The Exchange. In your obituary, page
610, May 6 issue, you call attention to
the death of Arthur Armstrong, Mil-
ford, O. The man is dead all right; but
he was a "four" merchant—of a dif-
ferent character from ours.

Superintendent Critchell, of the
parks, reports thousands of dollars' worth
of damage to the roads from the
recent rains. E. G. GILLET.

1877

We Can Fill Orders for

1905

DECORATION DAY

—FROM—

WE can ship you better quality flowers for less money than you can obtain if you come to Boston to purchase them, besides saving you the time and expense.

We filled all orders sent us at Easter; can do so now.

75,000 CARNATIONS
30,000 SPIRÆAS
25,000 STOCKS
50,000 ROSES Including 5,000 American Beauty
500,000 Hardy FERNs

HARRISII LILIES, LILY OF THE VALLEY, SWEET PEAS, PINK POND LILIES, PÆONIES, and all Seasonable Flowers

ORDERS going a long distance will be packed with greatest care. There is no question about the quality of flowers we send out; they are raised by the most successful growers in the country and always prove profitable to those who purchase them.

WELCH BROS.

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TELEPHONES
6267 and 6268 Main

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Mention the Florists' Exchange when writing.

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Importers and Manufacturers of All FLORISTS' SUPPLIES, RIBBONS AND CRIFFONS Send for Catalogue

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HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?

R It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of one hundred Pounds.

Per doz.

No. 1 will fit from 2 to 6-inch pots.....30c.
No. 2 will fit from 5 to 8-inch pots.....40c.
No. 3 will fit from 8 to 12-inch pots.....50c.
By mail 10c. extra per doz. Sample pair 10c., postpaid. See last week's issue for advertisement of Florists' Letters, etc.

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Mention the Florists' Exchange when writing.

N. LECAKES & CO.

53 W. 28th St., NEW YORK



Tel. No. 1214
Madison Square
Stands at Cut Flower Exchange
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SPECIALTIES: Galax Leaves, Ferns and Lencothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves
Mention the Florists' Exchange when writing.

JAPANESE MOSS

Packed in paper cartons. "Moss and nothing out Moss"; no sticks or dirt. Less than half the price of German Moss.

L. WERTHEIMBER & CO.,
Foreign & Domestic Specialties,
39 Barclay St., New York.

SOUTHERN SMILAX

Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.
GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.
LEUCOTHE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.
Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50.
All kinds of Florists' Supplies.
L. J. Kreshover, 112 West 27th Street, New York, Tel. 597 Madison Sq.

MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager
FANCY FERNS, \$1.50 per 1000.
DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.

We are the makers of the
MODEL GLAZING POINT
MODEL TOMATO SUPPORT
Write for booklet of prices.

PARKER-BRUEN MFG. COMPANY, Inc.
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Factory HARRISON, N. J.

CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON
Carnations, Roses and Spring Flowers 11 South 16th Street, PHILADELPHIA

Mention the Florists' Exchange when writing.

FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.
504 Liberty Ave., PITTSBURG, PA.

GARDENIAS, SWEET PEAS, DAISIES and the finest AMERICAN BEAUTIES

Mention the Florists' Exchange when writing.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

SAMUEL S. PENNOCK

{ THE Wholesale Florist of Philadelphia }

WILD SMILAX \$6.00 Per Case
PLUMOSUS STRINGS, extra heavy, \$40.00 per 100.

Mention the Florists' Exchange when writing.

PEONIES
CARNATIONS, ROSES, Etc.

THE PHILADELPHIA CUT FLOWER CO.
1516 and 1518 Sanson St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

Chicago.

The Week's News.

The strike situation remains unchanged with but small prospects of a near settlement, both sides being determined on a fight to a finish. This is causing hardship to all in the trade, retailers as well as commission houses. The express companies began making deliveries in a small way the first of the week, but at present are not trying to pick up packages from any commission houses. The deliveries up to date have been in general always more or less late.

A strike of the messenger boys of the Postal Telegraph Company hampered business in general on Tuesday, all messages being late in coming in and either being given over the 'phone or delivered by some man connected with the office force.

The relatives and friends of Otto Kroeschell are worrying over his mysterious disappearance one day last week. Up to the present writing he has not been found. A reward of \$250 has been offered by his family for any information as to his whereabouts. He is a member of the firm of Kroeschell Brothers, greenhouse boiler manufacturers.

The Benthley-Coatsworth Company have discarded American Beauty roses and hereafter will devote their whole range of glass at New Castle, Ind., to the growing of teas.

Theo. Meyer, Waukegan, was a sufferer to a considerable extent last week on account of the heavy rains; there were 18 inches of water in his greenhouses.

Vaughan's Seed Store presents a scene of unusual activity at this time. From appearances, this place has not lost trade on account of the strike.

The Fleishman Floral Company contemplates reopening Mosconosotes' store on the north side, remodeling and otherwise fitting it up. It will be in charge of Wm. Ghornerly, formerly with E. Wienhoeber.

Benthley-Coatsworth Company is again handling its own stock here, after transferring it to St. Louis for a few days at the commencement of the strike.

Building operations are well under way with the following firms: Bassett & Washburn and Peter Reinberg. The Jegen Sisters, formerly located on Washington street for many years, have removed to 96 State street, where they have a finer store.

William Graff has sold his store at 90 Washington street to Harry B. Tufts. It is under the management of Chas. Balluff.

ROBERT JOHNSTONE.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

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Samples free. For sale by dealers.

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MILWAUKEE, WIS.

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Headquarters in Western New York For ROSES, CARNATIONS And all kinds of Seasonable Flowers.

WM. F. KASTING Wholesale Commission Florist ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS 383-87 Ellcott St. BUFFLAO, N. Y. GIVE US A TRIAL WE CAN PLEASE YOU

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1432 S. Penn Square, PHILADELPHIA, PA. Seasonable Cut Flowers Fine Quality

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All Cut Flowers at Ruling Market Prices.

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Table with columns for Name and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, St. Louis. Lists prices for various flower types like A. Beauty, Roses, Carnations, etc.

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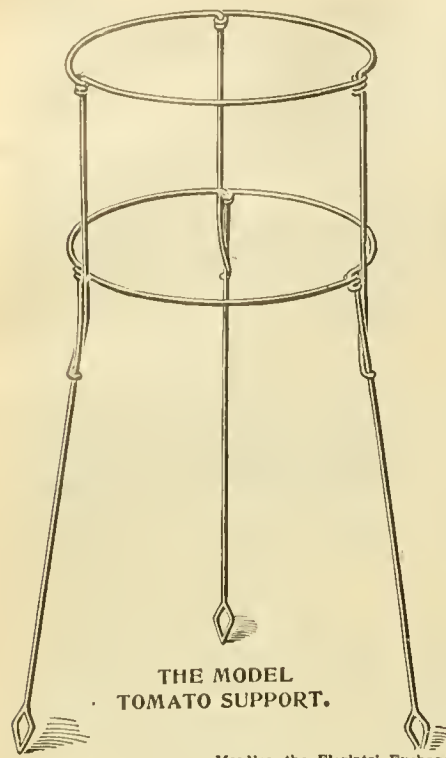
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The Only
Perfect Tomato
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Made of Heavy Galvanized Wire and will not rust.

Height, complete, 34 inches.
Height of bottom section, 24 inches.

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Diameter of circle, 14 inches.

Model Carnation Supports
Galvanized Rose Stakes
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Window Glass. Painters' Supplies.
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C. S. WEBER & CO.
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SUMMER IN WINTER
BY USING
Standard Greenhouse Boilers
One cent gets our Catalogue
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Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders elsewhere.
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For Greenhouses, Graperies, Hotheds, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.
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A. H. HEWES & CO.
No. Cambridge Mass
L. I. CITY N. Y.
CATALOGUE FREE

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"An occasion lost cannot be redeemed."
Do not lose this chance of ordering
Syracuse Red Pots
Always best material, up-to-date machinery and kilns. Properly packed.
We await your order
Syracuse Pottery Co.
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STANDARD FLOWER POTS
THE WHILLDIN POTTERY COMPANY
PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Mention the Florists' Exchange when writing.

Boston.

News Notes.
Andrew Christensen, of Stoneham, who is one of the best carnation growers in this locality, has bought six acres more land adjoining his present property, and will at once commence the erection of a modern greenhouse, 300x40 feet.

George Cartwright, of Dedham, well known as the treasurer of the Boston Co-operative Flower Growers' Association, will retire from the florist business in the near future. He has already sold most of his houses, Mrs. Fisher, of Montvale, having secured three of them, which she will remove to her own place.

R. H. Moltman, of Cambridge, who for several years past has conducted a florist store in that city, has bought several acres of land, and will erect three greenhouses thereon.

W. C. Stickel, of Lexington, who recently sold his North Cambridge establishment, is building another house, 200x30 feet.

Albert Scott, the Beacon street florist, will build another house at his West Roxbury place.

Justin Geist, of Melrose, is giving up his greenhouse business and will devote his entire time to his store.

A movement is on foot by members and salesmen of the two flower markets to hold an outing and picnic on Saturday, June 3. An interesting feature will be the ball game, which is scheduled to take place between picked teams from the two markets.

William Spillsbury, of Woburn, has commenced to harvest a fine crop of cucumbers from his new house, which was finished only about a month ago. Violets will be the crop grown next winter.

Visitors this week included: G. C. Watson and S. S. Skidelsky, Philadelphia. J. W. DUNCAN.

SEATTLE, WASH. — The Seattle Florists' Association has decided to give a chrysanthemum show in November. At the last meeting a paper on tomatoes under glass, read by Gust Bertman, was a feature.

OAKLAND, CAL. — A party of florists and growers in this city and San Francisco made a friendly visit to President J. C. Vaughan, of the S. A. F. O. H. at Pasadena, Cal., recently.

GREENHOUSES.
MATERIAL FURNISHED AND MEN TO SUPERINTEND ERECTION IF DESIRED.
CYPRESS SASH BARS
ANY LENGTH UP TO 32 FT. OR LONGER.
The A. T. Stearns Lumber Co.,
NEPONSET, BOSTON, MASS.

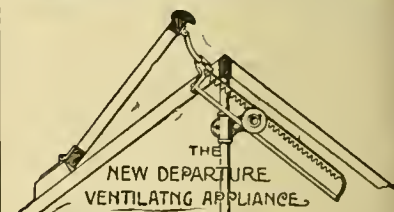
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MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
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The Standard Ventilating Machinery
The original machine with self-oiling cups is the most powerful, least complicated, very compact, with ease of operation.
The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market.
The Standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.
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GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1896.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.

THE JENNINGS IMPROVED IRON GUTTER
PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.
DILLER, CASKEY & CO.
S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.
Successors to JENNINGS BROS.
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OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

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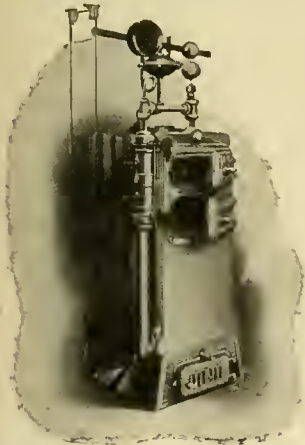
CHARLES H. DODD, Madison, N. J.

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Send for catalogue Get the best Greenhouse Material, Composition Posts
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FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.

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Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.

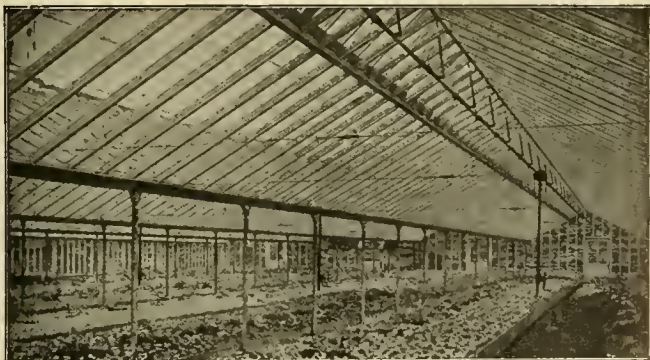
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Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of Construction, either of Washington Red Cedar or Louisiana Cypress quality

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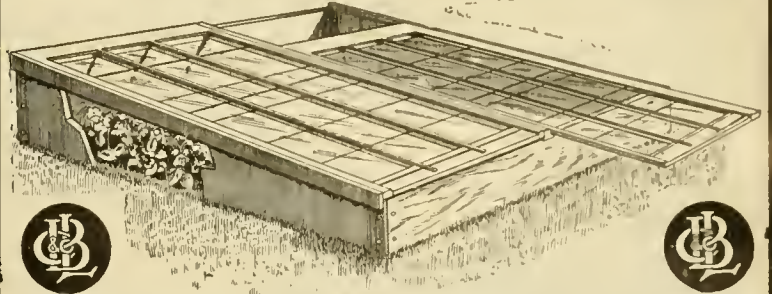
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Hot-Bed Sash and Frames FOR GROWING VEGETABLES, VIOLETS, ETC.

OUR SASH ARE STRONG AND DURABLE, CONSTRUCTED OF RED GULF CYPRESS "The Best is the Cheapest." An Iron Rod is run through the center of all the Sash Bars, tying the Sash and giving support to the Bars. All joints are white leaded and are held with steel dowel pins.



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Catalogues of Greenhouse Construction, Heating and Ventilating will be mailed on request. Address New York office.

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The Best Quality and Work Guaranteed.

CYPRESS SASH BARS

Absolutely clear, sun dried; cut to exact sizes.

TENN. RED CEDAR POSTS

In lengths as wanted.

PECKY CYPRESS BENCHES

Economical and lasting. Coming into general use.

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Various styles and sizes. Ready for prompt shipment.

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PIPE, FITTINGS, GUTTERS, GLASS

And all supplies needed in new or reconstruction work.

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Heating! Heating! Heating!

A FEW REASONS WHY I HAVE SO MANY COMMERCIAL HEATING CONTRACTS ON HAND

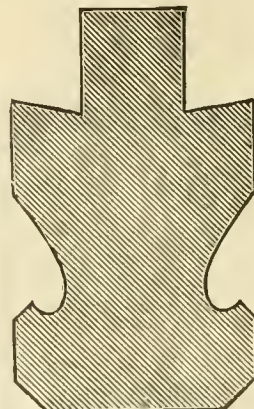
THE satisfactory results obtained in the past. THE most competent greenhouse mechanics employed. THE boilers I install are a guarantee of satisfaction and economy. THE best figures on your work that can be secured.

AN OPPORTUNITY TO ESTIMATE ON YOUR HEATING OR REPAIR WORK WILL BE TO YOUR INTEREST

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Eastern Agent Furman and Kroschell Boilers

GULF CYPRESS Greenhouse Material



Cut and Spliced Ready for Erection

Hot Bed Sash

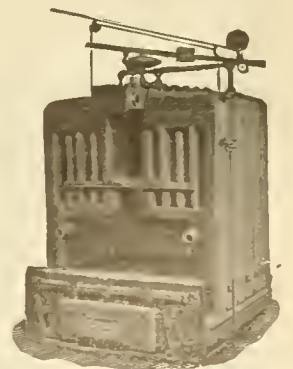
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Heating Installed

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New Greenhouse Catalogue ready for
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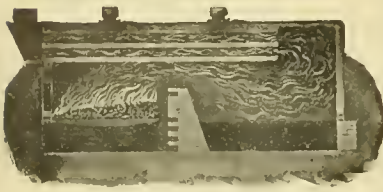
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Greenhouse Boiler

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Boilers made of the best of material, shell firebox
sheets and heads of steel, water space all around
(front, sides and back). Write for information.
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ASPARAGUS PLUMOSUS, SPRENGERI
and DECUMBENS, 3 in. pots, 75c. per doz.,
\$5.00 per 100.
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BOUVARDIA HUMBOLDTII, for Summer
flowering, from 2 in. pots, \$3.00 per 100; 50c.
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CLEMATIS, large flowering variety, 2 years old,
5 in. pots, \$3.00 per doz.
COLEA SCANDENS, 3 in. pots, 75c. per doz.;
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100.
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ECHEVERIA Secunda Glauca, 80c. per doz.;
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HONEYSUCKLE (Helleana), 6 in. pots, \$1.50
per doz.; \$10.00 per 100.
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CHRYSANTHEMUMS, best standard varieties,
rooted cuttings, from soil, \$2.00 per 100.
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doz.
NEW PARIS DAISY, Queen Alexandra, 3 in.
pots, \$2.00 per doz.
DAISIES (Belle Perennis), white and pink, 50c.
per doz.; \$3.00 per 100.
PANSIES, separate colors, white, blue and
yellow, 50c. per doz.; \$3.00 per 100.
PASSIFLORA COERULEA, 4 in. pots, \$1.00
per doz.; \$7.00 per 100. 3 in. pots, 75c. per doz.;
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LEMON VERBENAS, 2 in. pots, 50c. per doz.;
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\$1.50 per doz.
SALVIA, SPLENDENS and FIRE BALL,
2 1/2 in. pots. 50c. per doz.; \$3.00 per 100.
Plants from 2 1/2 in. pots, \$3.00 per 100.
Alternantherae, Asparagus Plumosus, Comorensis,
Sprengeri and Decumbens; Alyssum Little Gem;
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HOT WATER Radiation from
4,200 Square Feet and Up.
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Send four cents postage each
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RED GULF CYPRESS GREENHOUSES.
FLAT IRON FRAME RAFTER GREENHOUSES,
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WE ALSO MANUFACTURE Hotbed Sash and Frames Self-locking Vent-opening Apparatus.
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Our PIERSON BOILERS have established a reputation for economy. We would like to tell
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Write to-day for prices.

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Consisting of 19 Greenhouses, 20,000 feet of pipe, 5 boilers, 2 horses, 5 delivery wagons (3 open and 2 covered), 500 sash, barns, stables, sheds
tools, implements, pots, stock of plants, &c., will be offered at
PUBLIC AUCTION, THURSDAY JUNE 1, 1905
Beginning promptly at 11 a. m. and continuing until the entire plant is disposed of. This sale will be conducted on the premises of Messrs.
Ditzenberger Bros., 75th St. and Fifth Ave., Bay Ridge, Brooklyn, N. Y. Reached by trolley car marked 86th St. From 39th St. ferry (boat
leaves foot of Whitehall St. New York), or Fifth Ave. elevated R. R. from Brooklyn Bridge, New York, transfer to 86th St. trolley car at 65th St.
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Note—Everything to be offered at this sale is in first-class condition and will be offered in lots to suit purchasers. All purchases to be removed
within two weeks after date of sale. **TERMS CASH.**

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YOU want to have the reputation for PERFECT BLOOMS. YOU want your
TRADE TO INCREASE and your REPUTATION to spread. You can
secure all this by using NICOTICIDE in your houses, either as a fumigant
or spray. It will clean out the pests, no doubt of that, and the experience
of users through many years shows it is SAFE. The cost per can is not so
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THE POINT! Send along your address and we will see if we cannot make
you one of our customers.

The name of OUR preparation is NICOTICIDE.

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Are you fully prepared to supply all demands for
**Metallic Wreaths, Ruscus Wreaths, Im-
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Green and Bronze, Moss Wreaths and
Cape Flowers?**

Send your orders early.

H. BAYERSDORFER & CO.,
50 to 56 North 4th St. PHILADELPHIA, PA.

THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 21

NEW YORK, MAY 27, 1905

One Dollar Per Year

NEPHROLEPIS PIERSONI ELEGANTISSIMA (The Tarrytown Fern)

We have a grand lot of this in 6-inch and 8-inch pots—fine specimens, for which we have a splendid demand. Retail florists find this one of the best selling plants ever handled, even at the present novelty prices. We can supply 6-inch plants at \$2.00 each, and 8-inch at \$3.00 each.

Now is the time to obtain a supply of this in small plants and grow it on for retail trade. We have a splendid lot of very strong, heavy established plants in 2 1/2-inch pots, which, if shifted at once, will make grand stock for fall. Price, \$50.00 per 100. These are not light rooted runners from bench, but are strong established plants from 2 1/2-inch pots.

We also offer a lot of

PIERSON FERNS In large sizes for immediate sale for summer decoration. 6-inch at 50c. each; 8-inch at \$1.00 each; 10-inch at \$1.50 to \$2.00 each.

NEPHROLEPIS SCOTTII Fine plants, 6-inch pots. \$1.00 each; 8-inch, \$2.00 each.

ADIANTUM CROWEANUM Extra fine plants, 5-inch pots, extra fine for immediate use or for growing on, \$6.00 per dozen.

KENTIAS FOR DECORATING We have a nice stock of large plants which have been grown in a very low temperature all winter, and consequently are hardy and splendid for decorating, as they will stand a good deal of knocking around. Florists who need large stock for decorating or for hotels, piazzas, etc., in exposed places will find this stock unusually satisfactory. We offer various sizes from \$6.00 to \$15.00 each, according to size.

EXTRA LARGE FICUS FOR DECORATING We have some very large plants, grown in tubs, several plants in a tub, and in consequence are very well furnished, and very bushy, ranging in height from five to ten feet. Splendid for hotels, piazzas, etc., and useful for decorating. \$5.00 to \$10.00 each.

DRACAENA INDIVISA Fine stock in 6-inch pots, the most useful size for florists' use. 50c. each.

ENGLISH IVY Strong plants, 3 1/2-inch pots, \$12.00 per 100.

GERANIUMS Double General Grant, La Favorite, Duc de Montmart, Paunpeck, etc. strong plants, 8 1/2-inch pots, \$8.00 per 100.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

This is a sample of my

Grafted Stock

ONLY A FEW
THOUSAND LEFT

Exceptionally fine large
Own Root plants of

Bride, Bridesmaid
Kaiserin, Carnot
Liberty and
American Beauty



W. H. ELLIOTT
BRIGHTON, MASS.

Mention the Florists' Exchange when writing.

COLLECTED ORCHIDS

Fresh Importation of **Cattleya Trianae**

Just received in splendid condition and offer them until sold at \$55.00 per case, original case of 40 to 50 plants.

STARTED CANNAS In Leaf

Best Standard Varieties, 50cts. per doz.; \$3.50 per 100.

NEW CROP KENTIA SEED

Just arrived. Belmoreana and Forsteriana, \$3.50 per 1000; per whole case of 5,000 seeds, \$15.00

Asparagus Plumosus Nanus Seed

True. Greenhouse grown. Late harvested. \$2.50 per 1000; 5,000 for \$12.00; 10,000 for \$20.00. Germination guaranteed.

MUSHROOM SPAWN PURE CULTURE

Being the Eastern Distributing Agents for the American Manufacturers of Pure Culture Spawn, we can ship Fresh Spawn on short notice at the following prices: 15 cts. per lb.; \$1.25 per 10 lbs.; \$10.00 per 100 lbs.

We have also the best make of English Virgin Mushroom Spawn, fresh importation, 8c. per lb.; 75c. per 10 lbs.; \$6.00 per 100 lbs.; \$55.00 per 1000 lbs.



CLUCAS & BODDINGTON CO. 131 WEST 23d STREET, N. Y. CITY

Telephone, 1063 Chelsea
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

CARNATIONS

Last Call

	100
500 Lieutenant Peary, from sand	\$12.00
500 " " from pots	12.00
300 The Belle, from pots	6.00
200 Mackinac, " "	5.00
300 Mrs. Patten " "	6.00
500 Harry Fenn, from sand	3.00
250 Cardinal, from pots	12.00

25 at 100 rate.

All first-class, well-rooted stock. Remember you can save 5 per cent. from the above prices by sending check with your order.

Cottage Gardens Company, Inc.

G. W. WARD, Manager, Queens, Long Island, New York
Mention the Florists' Exchange when writing.

Decoration Day Items



- BAMBOO CANES for tying up Chrysanthemums, 6 to 8 ft., 1000, \$6.00
- RAFFIA, Long Braided, Bright, - - - lb. 15c., 100, \$12.00
- RUBBER HOSE, Liberty Brand, 3/4 inch - - - - foot, 10c.
- GLADIOLUS, mixed, good colors - - - - - 1000, \$6.50
- STERILIZED SHEEP MANURE, 100 lots - - - - - \$20.00

WM. ELLIOTT & SONS, NEW YORK

Mention the Florists' Exchange when writing.

NEVER BEFORE OFFERED

Lilium Longiflorum Multiflorum

Original Japan stock, in fine healthy condition, ready for delivery July, 1905

- 5 x 7 size, \$25.00 per 1000; \$3.50 per 100
- 7 x 9 " 65.00 " 8.00 "
- 9 x 11 " 130.00 " 15.00 "

Orders will be accepted as long as stock to arrive, which is very limited, is unsold. Terms, Net Cash, 30 days. Write for Special Price on all other Bulbs, Roots, Etc.

F. W. O. SCHMITZ, Prince Bay, N. Y.
Importer and Exporter

Mention the Florists' Exchange when writing.



Section of field of

LILIUM HARRISII

Grown by

CHAS. A. V. FRITH, Bermuda

Photo taken April 21, 1905

The "SEMPER IDEM" brand

Mention the Florists' Exchange when writing.

Gladiolus Bulbs

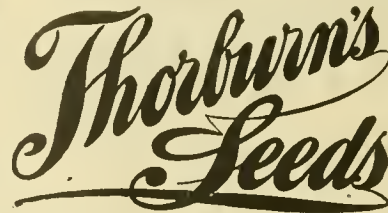
MIXTURES

	Per 100	1000
Groff's Hybrid Seedlings, mixed	\$2.00	\$15.00
Meadowvale, mixed	1.00	10.00
General, mixed	.75	7.00
Lemolne's, mixed	2.00	15.00
Lemolne's, extra fine mixed	2.50	20.00
Childsail, mixed	2.00	18.00
Pink and Rose, mixed	1.25	11.00
Yellow and Orange, mixed	3.50	30.00
Striped and Variegated, mixed	2.25	20.00
White and Bright, mixed	1.40	12.00
Scarlet and Red, mixed	1.25	10.00

NAMED VARIETIES

	Per 100	1000
Augusta, white blue anthers	\$4.00	\$30.00
Baron Staffe	1.50	14.00
Brenchleyensis	1.50	12.00
Ceres	1.75	15.00
Gen. Paul	1.50	15.00
Gil Blas	1.50	15.00
Jane Dlenlafay	2.00	20.00
May, 1st size	1.75	18.00
Mme. Monneret	1.40	12.00
Mrs. Beecher	2.50	22.00
Princeps	3.00	30.00
Shakespeare	5.00	45.00
Senator Volland	2.50	25.00

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK
Branch Store, 404 East 34th Street, New York
Mention the Florists' Exchange when writing.



We are now booking orders for

- LILIUM HARRISII
- LILIUM LONGIFLORUM
- ROMAN HYACINTHS
- PAPER WHITE NARCISSUS, &c.

Apply for prices, stating number wanted

CYCAS REVOLUTA, \$8.00 per 100 lbs.
COLD STORAGE VALLEY PIPS, in cases of 3,000, at \$10.00 per 1000.

J. M. THORBURN & CO.
36 Cortlandt St. New York
Mention the Florists' Exchange when writing.

OUR CATALOGUE

Of Guernsey-Crown Narcissus will be ready about June 10. Get our prices before ordering elsewhere.

HUBERT & CO.
N. Le Page, Rep. Mt. Vernon, N. Y.
Mention the Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.

Catalogues free on application.

WEEBER & DON, Seed Merchants and Growers,
114 Chambers Street, NEW YORK

Mention the Florists' Exchange when writing.

WE AIM

to supply only

SUPERIOR STOCK

When making up your catalogue, write us for prices on Summer flowering bulbs.

JOHN LEWIS CHILDS, Floral Park, N. Y.
Mention the Florists' Exchange when writing.

LAWN GRASS SEED

Dickinsons, Evergreen, and Pine Tree Brands in Bulk and Packages

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

Mention the Florists' Exchange when writing.

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable. Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**

Mention the Florists' Exchange when writing.

NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.

Mention the Florists' Exchange when writing.

GLADIOLUS PLANT NOW

Strictly 1st size bulbs, sound and unspouted.

	100	1000		100	1000
Red Shades	\$1 25	\$10 00	Groff's Hybrids	\$1 50	\$11 00
Pink Shades	1 00	9 00	All Colors, Mixed	.75	6 50
White and Light	1 50	12 00	Extra Fine, "	1 25	10 00
Striped and Variegated	2 00	18 00	Childsail, "	1 75	15 00

25 at 100 rate; 250 at 1000 rate.

VAUGHAN'S SEED STORE

84 & 86 Randolph St., Chicago 14 Barclay St., New York

Mention the Florists' Exchange when writing.

Cineraria and Chinese Primrose

Grown by English Specialists

The most critical florist or gardener can depend upon these English Prize Strains as being the Highest Bred and the Largest Flowering offered to the trade.

CINERARIA

Giant Flowering

English Prize Dwarf, mixed.....	1/2 trade	Trade
English Prize Half Dwarf, mixed.....	pkts.	pkts.
James' Giant, mixed.....	.60	1.00

CHINESE PRIMROSE

(Primula Sinensis)

English Prize Fringed, mixed.....	1000 seeds
Per 100 seeds, 25c.; 500 seeds, \$1.00.....	\$1.75
Obconica Grandiflora, mixed.....	.30
Forbesii (Baby Primrose).....	.40
Stellata (Star Primula).....	.50

HIGH GRADE FRENCH AND DUTCH BULBS

We should be pleased to have an opportunity to quote on your requirements.

See our Bulb Offer in last week's FLORISTS' EXCHANGE.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

CANNAS

Henderson's, Queen
Christie, F. Vaughn
Austria, 4-in. pots, \$5.00 per 100.
GERANIUMS, 4-in. pots, \$5.00 per 100.

J. C. SCHMIDT CO., Bristol, Pa.

Mention the Florists' Exchange when writing.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World
Introducer and Grower of all the leading Novelties
Highest Award, International Exhibition, Dusseldorf, 1904. Catalogue free on application.

FRED. ROEMER, Seed Grower
QUEDLINBURG, GERMANY.

Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA
Blue List of Wholesale Prices
mailed only to those who
plant for profit.

Mention the Florists' Exchange when writing.

QUALITY SEED BULBS PLANTS

SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York.

Mention the Florists' Exchange when writing.

XXX SEEDS

PRIMROSE IMPROVED CHINESE
Finest grown, large-flowering, fringed, single and double, 15 varieties, mixed, 500 seeds \$1.00; half pkt., 50c. Have the varietal separate also.

CINERARIA Finest large-flowering dwarf, in best mixture, 1000 seeds, 50c.

PRIMULA OBCONICA. New large-flowering fringed, mixed, 1000 seeds, 50c.

PANSY GIANT. The finest large-flowering varietal, critically selected, 5,000 seeds, \$1.00; half pkt., 50c.

500 seeds of 'Giant Mme. Ferratt', added to every \$1.00 pkt. of Giant Pansy Seed CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.

The Home of Primroses

Mention the Florists' Exchange when writing

FALL BULBS

NOW READY TO QUOTE PRICES

FREESIA, ROMAN HYACINTHS, PAPER WHITE NARCISSUS
LILIU HARRISH AND LONGIFLORUM, HYACINTHS,
TULIPS, NARCISSUS.

BUY NOW and you will buy right

Send for our Import Bulb List; it will save you money.

VAUGHAN'S SEED STORE

84 & 86 Randolph St., Chicago. 14 Barclay St., New York.

Mention the Florists' Exchange when writing.

PRIVET Half Price

12-15 inches	\$7.00 per 1000	2-3 ft.	\$15.00 per 1000
18-24 "	12.00 "	2-3 ft., 3-year	20.00 "

The above offer is good only when this advertisement is mentioned.

IVY 300,000 ROSES

Field-grown and pot plants, \$5.00 and \$8.00 per 100. 2 and 4 in. pot plants. Prices and varieties on application.

CANNAS, in variety	Per 100	\$6.00	CALADIUMS, 4 in. pots	Per 100	\$10.00
COLEUS		2.50	DORMANT ROSES		8.00
SALVIAS		2.75			

THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

Mention the Florists' Exchange when writing.

MICHELL'S PRIMULA SEEDS

We have a very choice strain from a Leading Primula Specialist, and florists may rely upon this to be the very best. Size of flowers very large. Beautifully fringed and of the brightest colors.

Alba Magnifica, white.....	1/2 tr. pkt.	tr. pkt.	\$0.60	\$1.00
Holborn Blue.....	.60	1.00		
Kermesina Splendens, crimson.....	.60	1.00		
Rosey Morn, pink.....	.60	1.00		
Stellata (Sutton's Star), Original	pkts., \$1.25			
Fern Leaved, mixed colors.....	.60	1.00		
Michell's choicest European				
Mixture contains only the very				
finest sorts, selected from the				
best strains. (Per 1-16 oz., \$2.00).....	.60	1.00		

HENRY F. MICHELL CO. SEED BULB and PLANT GROWERS. 1018 Market St., Phila., Pa.

Mention the Florists' Exchange when writing.

CANNAS Started, strong plants
Italia, P. Marquani, Allemania, Austria,
Italia, P. Marquani, Robusta, etc., \$3 per 100.
Dahlias, Strong Bulbs, Best Cut Flowers named,
\$3.50 per 100.
Shellroad Greenhouses, Grange P. O., Balto, Md.
Mention the Florists' Exchange when writing.

FREESIA BULBS

California Field Grown. Express prepaid at the following prices: 1/4 to 1/2 in. \$1.25 per 1000, 1/2 to 3/4 in. \$2.05 per 1000, 3/4 to 1 in. \$3.35 per 1000. Mammoth Bulbs, \$6.40 per 1000. Rates on orders of over 5000.

H. N. GAGE, Burnett, Cal.
Mention the Florists' Exchange when writing.

ASPARAGUS

Plumosus Nanus Seed, Local Grown, this season's crop. Lots of 5000 and over, \$2.00 per 1000.

SAMUEL FEAST & SONS

331 No. Charles Street, Baltimore, Md
Mention the Florists' Exchange when writing.

Florists' Bulbs

Best Grade Only

IMPORT ORDERS NOW BOOKED

Write for Prices

W. C. BECKERT

Allegheny, Pa.
Mention the Florists' Exchange when writing.

THE AMERICAN CARNATION

Price, \$3.50
A. T. DELAMARE PTG. & PUB. CO. LTD.
2 TO 8 DUANE STREET, NEW YORK.

CINCINNATI, O.—The wonders of the seed trade are but little known or appreciated, even by those most familiar with the details of production and distribution of such seeds as are found in the ordinary seed store, where vegetable and flower seeds go to make up the bulk of trade. To comprehend the magnitude and importance of the seed trade one must visit the establishments of those who collect and distribute field and grain seeds. Prominent among these are those of the two McCulloughs—J. M. & Sons and J. Charles McCullough. No one could imagine how much grass seed it requires to supply the retail trade until a visit is made to an establishment like these, and the details necessary to transform the crude product of the farm into a sample the seedsmen would class as "fancy." Here it is done to the greatest degree of perfection, as it is done in many other places, but nowhere else on a more gigantic scale.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

CLEVELAND, O.—Charles Guelph, of Jerome B. Rice Seed Company, Cambridge, N. Y., was a caller last week.

PORTLAND, ORE.—The Portland Seed Company has built a large warehouse, and the construction of another one is in contemplation.

NEW YORK.—Louis Goepfinger, representative of Peignaux & H. Lorin, successors to Andre Leroy & Co., wholesale seed growers, Angers, France, arrived in the city on Saturday last on his annual trip to the United States. Mr. Goepfinger will, as usual, make his headquarters while in this country at Meyer's Hotel, Hoboken, N. J., where mail addressed to him will have immediate attention.

NOTES FROM THE SOUTH OF FRANCE.

The weather here has been most favorable for all classes of plants. The bulb prospects are very good; but freesia will be scarce.

Encouraged by the good prices of the past two years, the growers, although the crop will be abundant, do not seem to be satisfied with moderate figures. At a recent meeting of growers and exporters, with the view of arranging prices, these were fixed, based on last year's values. However, when harvesting time comes it is expected that the prices decided on at the meeting will be lower.

J. B., JR.

AMERICAN SEED TRADE ASSOCIATION.

The accompanying program, and the popular resort (Alexandria Bay, N. Y.) at which the twenty-third convention of the American Seed Trade Association is to be held, bespeak a large attendance. The Crossmon House has been secured for the exclusive use of the members, and no special engagement of rooms in advance will be necessary. Provision has been made this season for executive sessions, and the president hopes that members will take advantage of the question box and bring up knotty problems in the business world, the discussion of which might be of mutual benefit. Elaborate arrangements for entertainment have been made, so that all may have a good time. The convention will be held June 20-22 next.
C. E. KENDALL,
Cleveland, O. Secretary.

DWARF BOX HARDY ROSES

3 to 5 in., \$25.00 per 1000; 2 to 4 inches, \$20.00 per 1000.

Specimen Evergreens In fine assortment. Call and see them.

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**
Mention the Florists' Exchange when writing.

RHODODENDRON MAXIMUM

and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand.
See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES North Abington, Mass
Mention the Florists' Exchange when writing

NOTICE

To whom it may concern: **RALPH M. WARD & CO.,** New York City, having purchased my crop of Bermuda Harrisii Bulbs for the season of 1905, have the sole right to sell them in the American and Canadian markets and to offer them as

PENISTON'S BERMUDA HARRISII

CLARENCE PENISTON, Hamilton, Bermuda
Mention the Florists' Exchange when writing.

The following program will be presented:


"Points of Interest at the Thousand Islands," Major J. H. Durham, Cape Vincent, N. Y.; "Early History of the Seed Business," Charles H. Breck, of Joseph Breck & Sons, Boston, Mass.; "Increasing or Restricting Membership in the American Seed Trade Association," Albert McCullough, of J. M. McCullough's Sons' Co., Cincinnati, O.; "Seed Growing in California," Lester L. Morse, of C. C. Morse & Co., Santa Clara, Cal.; "The Science of Business Building," R. U. Conger, manager Sheldon's School of Scientific Salesmanship, New York City; "Methods of Advertising," William Henry Maule, Philadelphia, Pa.; "Growing and Keeping Onion Sets," C. F. Wood, of Wood, Stubbs Co., Louisville, Ky.; "Is the Vocation of Seed Dealing a Promising Field for Young Men?" Mel. L. Webster, Independence, Ia.; "Good Seeds which Do Not Grow," C. L. Allen, Floral Park, N. Y.; "New and Desirable Forage Plants," Prof. C. V. Piper, U. S. Department of Agriculture, Washington; "Trials and Pleasures of the Seed Trade," H. L. Holmes, of the Holmes Seed Co., Harrisburg, Pa.; "The Modern Seed Catalogue," M. B. Templin, of the Templin Co., Calla, O. Question box during executive sessions.

NOTES FROM HOLLAND.—Whereas the month of April opened with delightful mild Spring weather, and had been preceded by unusually fine March weather, we were already anticipating a continuation of the blessings of nature until a sudden spell of cold and cutting east winds put a stop to all this. The month of April, all through, with the exception of one or two fine days, has proved a very sad disappointment to all concerned. Where we had hyacinths in full bloom on the first day of April, and had expected to find the bulk of bulb flowers to be over at the Easter holidays, the cold has retarded the flowering season to such an unusual extent that many hyacinths were still in bloom at Easter, and the tulips would have been at their best if the hailstorms had not completely ruined the flowers; and even those that are still in bud state already show the disastrous results of the continued rain and wet, and very likely even the late or May-flowering tulips will not come out to perfection. Many thousands of people from other parts of the country, that had anticipated a visit to the bulb fields when in bloom, were kept back by the inclement state of the weather, and, generally speaking, the whole of the flowering season has been a sad disappointment to us all. Spring shipments have now come to a close, and have been most satisfactory, as no surplus stock has been left on the hands of any of the growers.—Horticultural Trade Journal, England.

European Notes.

Beyond a continued aggravation of the troubles before referred to, we have every reason to be content with the present prospects both for 1905 and 1906 crops. Weather conditions are simply ideal, and with an average of twelve hours' bright sunshine every day, our fields of turnip are rapidly developing into seas of gold. The work of roguing is now in full swing, and it is satisfac-

WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
12 W. Broadway, NEW YORK



Mention the Florists' Exchange when writing

whole, very pure. An exception must, however, be made in the case of that fickle brute, the American Amber Globe. No matter how carefully the stock seed may have been selected, there are from 25 to 40 per cent. rogues to be pulled out every year.

The writer is of the opinion that this most desirable variety (on the table) owes its existence to the genial and enterprising head of an old Philadelphia house; if so, the gallant captain has a lot to answer for; and if he were to "happen" near the fields where we are playing the part of botanical policemen with the offspring of his creation, we should endeavor to "pull his leg" for a drink of something stronger than the city water of Philadelphia.

Beet, mangel, parsnip and parsley are making good progress, conditions at present being all in their favor.

Trade continues very brisk, particularly for pole beans, cucumber and mangel. This is, in a great measure, the result of the success of these crops owing to the hot Summer last year. A few lucky holders of the above named have been simply coining money during the past few weeks. The revival in the cucumber-growing industry in England is rather remarkable, as the trade had been practically killed by the early arrivals of a cheap class of frame cucumbers from Holland. This caused the English growers to devote more of their land to the culture of vegetable marrow, with such satisfactory results that, at any rate, one grower has bought the freehold of his farm with the proceeds and has named his residence "Marrow House."

The high prices realized for onions during the past Winter have induced the authorities in Bermuda to ship a lot of their produce to Europe, but it is now too late, and the importers are only able to obtain about one-third of the price that would willingly have been paid in February. To make the Bermuda onion better known a supply of the bulbs (which have arrived in excellent condition) has been offered gratuitously to the hotel proprietors in London.

August Rölker & Sons, 31 BARCLAY STREET, New York

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Deliveries.

We Wish to Thank Readers of The Florists' Exchange

For their liberal orders for our **SURPLUS CANNAS**, which nearly exhausted all our stock. Only a few Altamania and Burbank left at \$1.00 per 100; and mixed yellows at 60cts.

WE HAVE, HOWEVER, A FINE STOCK OF

STOKESIA CYANEA

that grandest of hardy bedding plants, which we wish to move at once and will make a special price for quick sales. Nice plants, from seed bed, getting strong and heavy, 75c. per 100; \$7.00 per 1000. Medium sized, 1 year old plants, \$2.00 per 100; \$15.00 per 1000. Large plants, in bud and bloom, \$3.50 per 100. Express charges prepaid anywhere in U. S. if cash accompanies the order.

SOUTHERN FLORAL NURSERY CO., Fruitdale, Ala.

Mention the Florists' Exchange when writing.

All the leading varieties of Hybrids and Ramblers now ready for delivery. Price, \$4.00 per 100; \$30.00 per 1000. Send cash with orders under \$10.00.

W. & T. SMITH COMPANY, - Geneva, N. Y.
Mention the Florists' Exchange when writing.

F. & F. NURSERIES SPRINGFIELD NEW JERSEY

Wholesale Growers **TREES AND PLANTS** in full assortment Trade Catalogue Free
Mention the Florists' Exchange when writing.

AMERICAN TREE SEEDS AND PLANTS

Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it.
OTTO KATZENSTEIN & CO.
Tree Seeds and Plants Specialists, ATLANTA, GA.

Mention the Florists' Exchange when writing.

CELERY

White Plume and Golden S. B., \$1.00 per 1000; 15 cts. per 100.

Binley the Florist, Glens Falls, N. Y.

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.

Mention the Florists' Exchange when writing.

EVERGREENS Large Assortment

Specialties—White Pine, Hemlock and Large Evergreens. Spring list for details.

Andorra Nurseries

Wm. Warner Harpur, Prop. CHESTNUT HILL, PA.

Mention the Florists' Exchange when writing.

Vegetable Plants:

Cauliflower (Early Snowball), \$2.50 per 1000.
Cabbage Plants, best varieties, \$1.00 per 1000.
Sweet Potato Plants, \$1.25 per 1000.
Tomatoes, Stone, Beauty, \$1.25 per 1000.

J. C. SCHMIDT CO., Bristol, Pa.

Mention the Florists' Exchange when writing.

HYDRANGEAS

For lawns, porches, etc., from 5 in. and 6 in. pots, plnk and assorted, \$35.00, \$50.00, \$75.00 and \$100.00 per 100.

French blue variety Azurea, \$12.00 and \$15.00 per dozen.

These plants are timed to bloom in July and August and are admirably suited for planting in large tubs or pots, or fancy receivers.

Araucaria Excelsa, a splendid lot, \$9.00, \$12.00, \$15.00, \$18.00 and \$24.00 per doz.

ANTON SCHULTHEIS

College Point, L. I., N. Y.

Mention the Florists' Exchange when writing.

STRAWBERRY PLANTS

Strong young plants, well packed, Wm. Bel Downing, Bubach, Haverland, Brandywine Gandy, Blomark, Nick Ohmer, New York Lester, Lovett, Succese, Reba, Robble, Joe Marshall, Cilmex, Fairfield, Storm's La Champion, Sharpless, 50c. per 100; \$2.50 per 1000. Dunlap, Tennessee, Parsons, Kansas, Lovett 50c. per 100; \$2.00 per 1000. 5000 of one variety for \$8.00. Not more than four varieties in 10 at 1000 rate.

Extra Strong Cuthbert RASPBERRY, 75c. per 100; \$5.00 per 1000. Miller, 75c. per 100; \$5.00 per 1000. Lovett and Lucetta BLACKBERRY, 75c. per 100; strong plants.

CHAS. BLACK, Hightstown, N. J.
Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilies, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE
Mention the Florists' Exchange when writing.

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Spraying for Scale.

This is the season when the young of the San Jose and other scale appear, and a spraying of trees suspected of containing these pests is in order. When the trees are bare the Winter washes of petroleum, lime, sulphur and salt, and others, are in order; but when the foliage is expanded recourse must be had to whale oil soap or some solution less strong than those of Winter. Whale oil soap is to be recommended at this season of the year. The young scales are killed more easily than when older, a pound of whale oil soap to a gallon of water making a mixture that will fix them.

Green Fly on Shrubs.

A source of great distress to many a nurseryman's customers is the numerous green fly pests which infest their shrubs and rose bushes, and many are the inquiries how to get rid of them. Tobacco in the way of smoke, and liquified by soaking, is death to these pests. An amateur having a greenhouse can be told of the smoke remedy, and, when it is outdoor bushes that have to be treated, of the liquid form. It is the outdoor bushes that usually trouble their owners. To make a solution for sprinkling the bushes, a pound of tobacco or double the weight of tobacco stems, from a cigar factory, soaked in three gallons of boiling water, makes a liquid which is death to all kinds of sucking insects. One, or, at the most, two sprayings with this water will destroy every green fly it touches.

There are, as well, the old-time remedies of soapsuds, or a solution of a pound of softsoap in five gallons of water, both efficacious, but tobacco is so easily obtained, and is such a sure thing that it is what is generally employed for the purpose.

The nurseryman's customer is made happy to find such an easy remedy before him. He frees his shrubs of the enemy, and is gratified to the one who thus enables him to still further enjoy his plants.

Rooted Evergreen Cuttings.

Evergreen cuttings rooted indoors through the Winter months need attention now, if they have not already received it. As a rule, they are rooted in shallow boxes, the intention being to allow them to remain in the boxes only until well rooted, which may be said to be in early Spring. These young plants are intended to be set out in nursery rows in time, but it is not well to do this the first year. They are but a few inches high and have but few roots, and when planted are but an inch or two underground. The droughts and heat of Summer will destroy such small plants, even though they be mulched; therefore it is far better to row them under cover in some way for a full season. This is done by potting them or by transplanting them into boxes containing a depth of soil sufficient to keep them growing well all the season. Planted in small pots, the pots plunged in sand, ashes or some other material which will prevent too rapid a drying is as good, or a better plan than any other. An open frame is a good place to plunge them. Kept growing through the summer, these will be fine, stocky plants by Fall, and, wintered in the frame, with some slight protection to keep the pots from freezing too hard, they will be in fine condition to plant out the Spring following. These are finer plants, and obtained with far less care under his plan than any other; much better than would result from a planting out as soon as rooted.

Many of these rooted plants make good stock to select from for the purpose of growing on of a few permanently in pots, for sales and for use as decorative plants. For the latter purpose florists as well as nurserymen have a constant call for such plants.

Soil for Rhododendrons.

A look at the rhododendrons as they grow in their native wilds affords an excellent opportunity of knowing what soil they thrive in there. It is really not oil as we know that substance here. Dead leaves and dead wood are what they grow in. Their own foliage, decaying year by year, rotten and rotting sticks, together with lots of moisture, appear to be their main support. As they are grown in cultivation the decaying vegetable matter would not do alone, or excepting in rare cases there would not be the steady supply of moisture the bushes get at the base of hills and mountains in their native haunts. In their wild state it is quite common to find them on the top of rocks which are barely out of running water, and wherever they are it is in nearly all cases where moisture is never lacking. Could we, in cultivating them, but insure moisture continually, far more success would attend our efforts than is now met with.

Rhododendrons are really not so particular as to special soil as many suppose. The foreign growers use peat largely, in which the plants thrive well. Then our own growers and their customers find light loam to suit them very well, and it really seems that

any light soil having an abundance of moisture, in a well-drained position, suits rhododendrons. There is one thing they dearly like, but rarely get, viz., partial shade. Were this secured to them, as well as the other requisites mentioned, their growth would be more satisfactory than it is, and when in flower the blossoms would last much longer than they do when in open situations.



CALLUNA VULGARIS IN POINT PLEASANT PARK, HALIFAX, N. S.

Courtesy of the publishers of "The Heather, in Lore, Lyric, and Lay."

Flowering Cherries.

Under the head of flowering cherries there are three well-known kinds in our gardens, the old Chinese double white, the Japanese double pink, and the weeping one, rosea pendula. The Chinese is known as sinensis; the Japanese is Sieboldi, and the weeper, as stated, is rosea pendula. To these is now to be added a new one, one of Veitch's introductions, and named after him, Cerasus japonica Veitchii.

C. rosea pendula stands without any competitors. It is a beautiful weeping tree, to say nothing of its charms as a flowering subject. It blooms early, the pink buds embellishing it the very first days of Spring, and when these buds are open the tree is like a cloud of snow. The appearance of the old double Chinese cherry is well known to all tree lovers. It is slightly pink before opening, and white afterward. The Japanese one, Sieboldi rubra plena, is well named. It is not only a fine red in the bud, but it maintains color all through until the flowers are about to fall, when they are almost white. Because of the color of its blossoms it is in great favor, and it certainly is very attractive when in bloom. The new one, Veitchii, which is now in cultivation here, appears to approach Sieboldi rubra plena a great deal, although this is the first season of its flowering. As in the other cherries, the flowers are borne in bunches of two to six or so, but the inflorescence appears more elongated. In addition to this, although it may be accidental, the flowers expand a week later than the others.

Excepting in the case of the weeping cherry mentioned, which is often grafted, budding is the method usually employed in propagating cherries. The common mazzard stock suits better than any other. Small seedlings set out in Spring become large enough to bud the same season. The weeping one needs tall stocks for working on. The one-sided growth which many grafted weepers make can be remedied to a great extent by watching the cion as soon as it commences to grow, directing the growth into a uniform shape by pruning or tying the growing shoots. Much of the discontent of customers over the one-sided growth of many weepers would not be formed were more attention given to the first growth of weeping, grafted trees. They are of but little use unless of well-rounded outline at the top.

JOSEPH MEEHAN.

When hot-water boilers are not in use, as during the Summer, it is considered advisable to draw off the water, clean the flues thoroughly, and pour a little machine oil between sections with the aid of a short length of pipe fitted with an elbow. This will prevent the accumulation of rust at these points of junction. Taking off the smoke pipe, shaking out the soot, and putting it away in a dry place, will prolong the life of this necessary appurtenance to the boiler.—Metal Worker.

WHITE HEATHER weddings are very common these days among the English nobility and gentry. At the marriage of a niece of Lady Aberdeen recently, this pretty emblem of good luck, with its "Bonny Gordons" associations, not only figured in the bride's bouquet and trimmings of her dress, but composed wreaths for the bridesmaids and the posies presented by two pretty girls to every one as he or she entered the church.

Hardy Heaths.

Perhaps one can only get a true conception of the beauty of the hardy heaths by viewing them in their native habitat, where they surface large tracts of hillside and moorland. The sight is one not easily forgotten, and even to those who are annually familiar with the sight it is a source of much pleasure.

Erica vagans, the Cornish heath, must be classed as one of the best of the dwarf-growing species, and a useful addition to our dwarf-flowering shrubs. Its value is heightened because of its flowering properties, beginning in July and lasting until October. Its flowers, which vary from quite a light pink to dark pink in color, are crowded in racemes four to six inches in length, while the dark-colored stamens protrude conspicuously from the corolla tube. This heath is a native of England, but is only found growing wild on a

small stretch of land overlooking the Atlantic Ocean in the southwest corner of England.

Erica vulgaris, or Calluna vulgaris, as it is now called, is the common heather of mountain, hill, and moor, and is very closely allied to the true heaths. It gives a display of pleasing pink flowers at the same time as E. vagans, and is the hardier of the two.

Another heath I would like to mention is Erica carnea, which is quite as hardy as the former two, and blooms at a time when there are but few things in flower, for from February to May this heath, under good conditions, is fairly smothered with bloom.

The uses of the heaths are many, but they should never be planted sparingly if striking effects are wanted. Heaths being social plants, they look more natural when planted in masses, choosing a sunny position, and where the soil is naturally of a moist character.

They may also be used with good effect as an approach, or belting, to higher growing shrubs, while they are of distinct value when used as a carpeting for the higher growing plants of the same natural order, such as half-standard rhododendrons.

The best and popular method of propagation is from cuttings, though they can be raised from seed. It is essential that the cuttings should have firm wood at the base, and to insure success, after inserting the cuttings into sand made very firm, air should be excluded from them as much as possible until they emit roots.

E. MATTHEWS.

Crimson Winter Rhubarb.

Mrs. Theodosia B. Shepherd, Ventura-by-the-Sea, Cal., has the following to say of the Crimson Winter Rhubarb in a recent issue of the Los Angeles Examiner:

"The Crimson Winter Rhubarb is literally eye-bearing. For raising this variety a well-drained, rich, sandy loam, or loamy soil, is best, and requires no fertilizer. The time of planting is from March to July, and the plants will begin bearing in December. This variety requires little water after it is once established. On March 10 I received a letter from one who is experimenting with this new vegetable. The writer said: 'I set out 1,200 young plants on the first of last July, and have been able to sell up to this time \$107 worth of cut rhubarb. As Mr. Burbank claims, this variety will produce marketable stalks abundantly six months earlier than any other kind.' The stalks are strong, of far more than average height, and thickly grown. The average is from 12 to 18 inches in length, and from 1 to 1 1/4 inches in diameter. The color is of a greenish crimson, which, when cooked, turns into a rich clear shade of crimson. As the Crimson Winter Rhubarb requires much less sugar and cooking than other varieties, I will give explicit directions how to cook it:

"To one quart of water add two cups of sugar, set on stove, and while boiling drop in 1 1/2 quarts of rhubarb, cut in cubes; move to back of stove allow to simmer for ten minutes, remove before the pulp is broken. I give these directions, as the cooking has much to do with the superior quality of the product. There are absolutely no strings to this variety, and no waste in using. This is the only vegetable grown that is so much like a fruit that it is practically a substitute.

"In my own experience I can report remarkable success. At present I have one acre of the bearing plants. This acre, since the middle of January to the first of March, has produced in actual weight three tons of marketable stems. The price has been from \$4.50 to \$5 per 100 pounds. If one could do his own work, the profits would be enormous on a few acres of rhubarb. 'The great question has been: 'Is this variety hard to grow?' My answer is, This product is the most easily produced of anything I have tried in my quarter of a century's experience with gardening."

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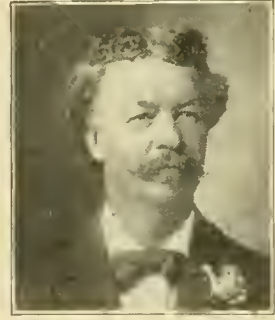
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10 to 12 ins. high, 2 yr. old, 3 tiers..... \$0.50
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The finest in existence. A magnificent glistening white, of great substance, long strong stems (2 ft.), of largest size and very fragrant, very prolific in both flower and bulbs, producing buds of immense size when well grown. Price, \$4.00 per 100; \$30.00 per 1000. Etc at 1000 rate. Discount on 5000 lots. Ready now. Cash with order, please.

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- 1000 Lady Bountiful \$7.00 \$60.00, 500 White Lawson 8.00 70.00, 200 General Maceo 3.00 25.00, 350 Lieutenant Peary 12.00

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From 2 1/2 in. and 3 in. pots. A. J. Balfour, G. W. Childs, Golden Wedding Miss Alice Byron, Dr. Englehard, Merza, Mayflower, W. H. Chadwick, Yellow Eaton. Price from 2 1/2 inch pots, \$4.00 per 100. Col. D. Appleton, H. L. Sunderbruch, Mrs. McArthur, Monrovia, Mrs. Barclay, Maud Dean, Mrs. T. L. Park, Mrs. Coombs, Nellie Pickett, Nagoya, Soleil d'Octobre, Superba, Silver Wedding, T. Carrington, White Bonafon, Western King, Vivand-Morel. Price from 2 1/2 inch pots, \$3.00 per 100; \$30.00 per 1000. Autumn Glory, Ada Spaulding, Collingfordii, Dorothy Devens, Glory Pacific, Golden Trophy, Harry May, Harry Parr, H. W. Reiman, J. E. Lager, J. H. Troy, Mrs. Jerome Jones, Meta, Minnie Wannmaker, Mrs. Baer, Mrs. S. T. Murdoch, Miss M. M. Johnson, Major Bonafon, Mrs. Humphrey, Mad. Fred Bergman, Niagara, Polly Rose, Pink Ivory, Rose Owen, Thomas H. Brown, Timothy Eaton, W. H. Lincoln, Xenia, Yanoma. Price, from 2 1/2 inch pots, \$3.00 per 100; \$30.00 per 1000.

The Beautiful Pink Carnation CANDACE

Dissemination 1898, \$2.00 per doz., \$12.00 per 100. \$100.00 per 1000. Early—commercial. Indianapolis Flower and Plant Co. and John Hartje, Indianapolis Ind. Mention the Florists' Exchange when writing.

NOTICE

Having purchased one of Minneapolis's finest old-fashioned residences, I will, on June 1, remove my business to it, where I shall be pleased to welcome my business friends. Having completely outgrown the capacity of the 6th St. store, I now have ample room to conduct my business. Please note my removal from 319 6th St. South to 602 10th St. South. (Miss) C. H. LIPPINCOTT, Minneapolis, Minn. 602 10th Street South Mention the Florists' Exchange when writing.

Own Root ROSES Fine Stock

Bride, Bridesmaid, Golden Gate, 2 1/2 in. pots \$4.00 per 100; \$35.00 per 1000. 3 in. pots, \$7.00 per 100; \$60.00 per 1000. Paris, Sunset, Sunrise, 2 1/2 inch, \$5.00; 3 inch, \$8.00 per 100.

CRAFTED FINE STOCK

Bride, Bridesmaid, Golden Gate, Carnot, Kaiserin, Testout, La France, Wootton, Watteville, Albany, from 2 1/2 inch pots, \$12.00 per 100.

MISCELLANEOUS PLANTS READY FOR IMMEDIATE SALES.

- Achyranthes Emersoni, etc 2 1/2 \$3.00, Alternanthera, red and blue, Princess 2 1/2 3.00, " Pauline 3 5.00, " Stella Gurney 2 1/2 3.00, Cuphea Platycentra 2 1/2 3.00, Celena, all leading varieties 3 4.00, Cannas, varieties as list 2 1/2 3.00, Feverfew, double white 2 1/2 3.00, Geraniums, d'ble and single strong 3 1/2 7.00, " special color or variety 3 1/2 8.00, " Ivy, fine varieties 3 1/2 8.00, Dracena Indivisa, fine stock 1/2 25.00, English Ivy 4 20.00, Fuchsia, white and blue, Princess 2 1/2 3.00, Fuchsia, double and single 3 1/2 7.00, Heliotrope, light and dark vars 2 1/2 3.00, Hydrangea Otaka, in bud 2 1/2 28.00, Ivy, German 2 1/2 3.00, Lantana, 12 best vars 2 1/2 4.00, Lobelia 2 1/2 3.00, Moonflower, white 2 1/2 4.00, Petunias, single 2 1/2 3.00, Salvia, Splendens and Bedman 2 1/2 3.00, Ivory, 3 1/2 6.00, Vinca Variegata and Elegans 3 1/2 4.00, Verbenas 3 1/2 10.00

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Makes three times as many fronds as any other Nephrolepis



THE only new NEPHROLEPIS that has really become popular as a commercial Fern, since the introduction of the Boston. Large and small growers everywhere are planting it in preference to any other Nephrolepis. A year's trial has demonstrated that it is the hardiest, most graceful and symmetrical Nephrolepis known. Unexcelled as a house plant; first choice of the retail florist and also of his customers. The New York and Philadelphia retail store men buy no other fern when Scottii is available. Has fully justified the high opinion formed of it by the judges who awarded it the following long list of prizes:

- Philadelphia, Pa.....SILVER MEDAL
- Newport, R. I.....SILVER MEDAL
- Boston.....SILVER MEDAL
- New York Florists' Club.....SILVER MEDAL
- S. A. F. St. Louis.....SILVER MEDAL
- American Institute, N. Y.....SILVER MEDAL
- New Orleans.....GOLD MEDAL
- St. Louis.....SHAW GOLD MEDAL
- World's Fair.....GOLD MEDAL

Highest Award at Chicago, Ottawa and Toronto
First Class Certificates and Testimonials from all over the country too numerous to mention

The Committee of Awards at the St. Louis World's Fair said of Nephrolepis Scottii: "A sturdy, Dwarf and compact form of Nephrolepis, very symmetrical and handsome, either in small plants or quite large ones. A great acquisition, with excellent qualities as a house plant. Worthy of Gold Medal."

Read Carefully the Best Report Ever Given by the New York Florists' Club for a New Plant:

The committee of award of the club visited the establishment of John Scott, of Flatbush, N. Y., on October 26, for the purpose of inspecting the stock of his new fern, NEPHROLEPIS SCOTTII. Seven members of the committee attended, also the president and vice-president of the club. The initial exhibit of this fern was made at the rooms of the club at the November meeting, 1903. The committee which examined it at that time was so favorably impressed by it that they unhesitatingly awarded it a certificate of merit, and did not ask to see it growing; a request to examine the stock was only recently sent to the club by the exhibitor. The committee made a thorough examination of the stock both in pots and on the bench, and character. It was growing in all sizes from plants in 4-inch pots up to specimen plants in tubs, and it was absolutely uniform, and were highly pleased at its condition form in all grades, the characteristics of the large specimen plants being evident in the smallest specimens on the place. The most careful scrutiny failed to discover any tendency whatsoever toward reversion, and it seems as if the character of the plant is absolutely and indelibly fixed. It is in essence a condensed form of the Boston fern, with valuable characteristics added, which are not evident in the parent. Your committee took an average plant in an 8-inch pot and found by actual count that there were 200 fronds in it, not counting the undeveloped and small ones which were in the center of the plant. The fronds of the plant in question averaged about 20 inches in length and three inches in width at the widest point; the pinnae are very closely set, so that they overlap, making a more finished frond than the parent. The plant in question had a spread of three feet. Plants in 4-inch pots showed a spread of 18 inches and a height of 10 to 12 inches. The committee was unanimously of the opinion that it is a most valuable introduction, and that it will become a plant for the florists to grow universally. It has a crispness and hardness about it which is superior to the parent, and which is one of its very valuable characteristics. It propagates very freely, and because of the fact that its character is established in the smallest size, it should find ready sale in all grades. After a thorough examination, your committee unanimously agreed that it was worthy of the highest award by the club and therefore voted that it be awarded the silver medal of the club, and herewith recommend same for your approval.

(Signed) PATRICK O'MARA, JOHN BIRNIE, ALFRED H. LANGJAHN, WM. H. SIEDRECHT, CHAS. LENKER, JOHN DOWSETT.

Scottii has received the highest awards whenever exhibited and for the past year has proven itself to be a **hardier house plant** than the Boston. **There is no comparison between this fern and any other variety for commercial use.**

Consult any grower, or retailer, who has bought Scottii, and they will tell you that it is as far ahead of the Boston as the Boston is ahead of all other introductions.

I sell plants, not apologies for plants. When you order of me, you can rest satisfied that **YOUR ORDER WILL BE FILLED.**

PRICES OF NEPHROLEPIS SCOTTII: 2 1/4 inch, \$2.00 per dozen; \$15.00 per 100; \$125.00 per 1000. 25 at 100 rate; 250 at 1000 rate.

JOHN SCOTT Keap Street Greenhouses
BROOKLYN, N. Y.

BRANCH: E. 45th St. and Rutland Rd., Flatbush

Telephone, 1207 Williamsburg

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FOUNDED IN 1888



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Seedmen and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 699.

News of the Week in Brief.

The French bulb growers are basing this year's prices on those in operation last year.

Chicago is still in the throes of strikes, and business continues to be hampered in consequence.

Hall is still getting in its fine work in the West, and the F. H. A. secretary is being kept busy.

On May 19 and 20 frosts in the vicinity of Montreal killed many flowering and vegetable plants.

The Shaw medal and other prizes will be offered at the Fall show of the St. Louis Florists' Club.

Indianapolis and Milwaukee craftsmen are making great preparations for their respective Fall exhibitions.

E. Sutermeister, a florist of Hyde Park, N. Y., was thrown from his wagon one day last week, sustaining severe injury.

Reports come from various parts of the country that the prevalent cool weather is retarding the work of planting of bedding stock.

A recipient of Government flower bulbs, from a New York Congressman, is reported to have used them in his soup, with subsequent stomach derangement.

The program of the convention of the American Seed Trade Association is given on page 696. The meeting will be held at Alexandria Bay, N. Y., June 20-22.

John M. Keller, the well-known plant grower, of Bay Ridge, N. Y., will retire from business June 1. The greenhouse establishment will be operated by the J. M. Keller Company.

The Board of Health has forbidden the use of vases or other receptacles for holding water in Greenwood Cemetery, Brooklyn, N. Y., on the ground that they are breeding places for mosquitoes.

A florist in San Francisco, Cal., has sued an ice company there for \$4,966.61, the appraised value of 11ly of the valley pips, alleged to have been improperly handled while in cold storage.

The Horticultural Society of New York holds a Summer show in the Museum Building, Botanical Garden, Bronx Park, June 14 and 15. Copies of the schedule can be obtained from Leonard Barron, secretary.

The body of Otto Kroeschell, boiler manufacturer, Chicago, who disappeared from his home on May 8, was found last week in the Chicago River. Mr. Kroeschell, his friends think, had been suffering from mental derangement.

Society of American Florists and Ornamental Horticulturists.

Railroad Rates.

The New England Passenger Association has authorized a rate of one and one-third fare on certificate plan, in co-operation with rate announced by Trunk Line Association, for persons attending the S. A. F. Convention, at Washington, D. C., August 15-18, 1905. WM. J. STEWART, Secretary.

THIS WEEK'S SUPPLEMENT.

Abies (Picea) Nordmanniana.

One of the most deservedly popular evergreens in this country is the one pictured—Abies Nordmanniana, the well-known Nordmann fir. Nurserymen are never afraid of being overstocked with this tree, for it not only sells itself, because of its good looks, but it is also one that transplants well, with ordinary care. It is nothing against some of our own species of firs—notably the concolor—to say the Nordmann is so popular. Concolor is also sought for by all planters, but the two are quite unlike in appearance, while perhaps equally as desirable and called for.

No doubt the extreme hardness of the Nordmann fir has much to do with its popularity. A native of the Crimea, snows and frosts have no terrors for it; and no matter how cold our Winters are, never a one has any effect whatever in abating in the slightest degree the lustrous green of its foliage. It is of just as beautiful a green in late Winter as it is in Summer, in which respect, though not alone, there are not many others of which this can be said. This character it appears to maintain from north to south. In the colder parts of our country it thrives; and look at the illustration and note how the tree thrives at Mt. Vernon, on the Potomac, the home of the illustrious Washington! It stands inside the walled-in garden, at the far corner from the mansion, and, as will be acknowledged, it is a lovely specimen, representing its natural growth. The Nordmann fir cannot be too highly recommended to all planters. It is one of the most satisfactory of evergreens.

Many other evergreens thrive at Mt. Vernon. The grounds are elevated, and on two sides slope to the Potomac. In addition to the fir already named, there are some of the best Abies pinsapo, or Spanish fir, growing there that we ever saw in this country. Mt. Vernon seems to be nearly the limit of its well-doing approaching North, as this fir does not seem at home even about Philadelphia. Near the tomb of Washington there grows one of the finest specimens of the Cephalonian silver fir one could wish to see, and there are more pinsapo there and other choice evergreens, all thriving.

As stated, the illustration shows the Nordmann fir in the walled-in garden. This garden is famed for its box-bordered gravel paths, its crepe myrtles, roses and other old-time flowers. And close to the tree illustrated will be seen an inviting looking little building, bearing the name "schoolroom." On the right of the specimen are to be noticed the branches of a rare tree, Sterculia platanifolia, bearing flowers; but as this tree has been photographed separately we shall make no further reference to it now.

Mt. Vernon is quickly reached from Washington by electric cars, or boat, and the whole route is interesting in historical places and in a horticultural way.

JOSEPH MEEHAN.

"Lighter Vein" Horticultural Literature.

The literary style affected by our so-called "high class" periodicals, devoted wholly or in part to horticultural interests, which have recently sprung up in the midst of us, is meeting with a share of adverse criticism by the more staid and sober class journals, the conductors of which have no use for airy notions, or the purveyance of the horticultural "meat that satisfieth not." The National Nurseryman, in a recent editorial, while commending the abundance of illustration, the good letter press and artistic make-up, deprecates the over-enthusiastic, almost hysterical methods of the newer periodicals in describing the commonplace, everyday operations in the garden and orchard, and condemns the florid, glowing accounts of success chronicled relative to gardening matters, which would lead one to infer that only a modicum of ability and a small amount of perseverance were necessary to obtain the wished-for results. And, adds our esteemed contemporary:

"One is almost led to believe that horticultural magazines are following the lead of some other journals of yellow hue in their eager search for the sensational and striking. We must confess to a strong preference for the sane and conservative methods of the older journals of this country and England, and we believe that we should hold fast to the sound and conservative, though less catchy and attractive, for in the long run such a policy will redound with most benefit to our patrons. The conservative policy, the careful method are the ones which will live and endure."

Commenting on the same matter, the Rural New Yorker says: "Every imaginable subject of garden cultivation is treated by ready writers, more or less familiar with the topic, and exemplified with kindergarten half-tones showing all phases of the work." The Rural also has a good word for the attractiveness of the newcomers: "but," it adds, "it can scarcely be denied their tone is that of airy certainty in dealing with vexed cultural problems. . . . Much good will flow from this increase of ornate suburban literature, but it cannot yet be claimed to touch the real interests of actual tillers of the soil."

If we are to judge by the evident and reported success of the journals in question, they are, as one publisher remarked concerning his magazine, also under criticism, "marketing what the market wants." We are said to be living in an age of superficiality. To meet the desires of that age, horticultural and other writings must needs be superficial. And it must be admitted, we think, the major portion of them, in new journals, and some old ones, too, well merit the

characterization. For the good the periodicals criticized are doing, however, let us give them credit; the harm that will result from their teachings will have its after beneficial effects as well. One thing is certain, they seem to have a temporary success far and away beyond that of the journals, deceased and alive, that have endeavored and are endeavoring to purvey the "sincere milk" of the horticultural "word."

A similar tendency is observable in many of the new books dealing with horticultural subjects appearing in the United States. Material of "lighter vein" seems to satisfy in their case, too. In a recent criticism of a new volume, appearing in Country Life in America, it is said: "It is easy for a professional to criticize a book by an amateur, and the standard of complaint is that books by amateurs are scattering and incomplete. On the other hand, professional gardeners, as a class, though practical, are dull, and, like other experts, they forget what beginners want." There is a good deal of truth in this assertion, yet it is doubtful whether a plethora of the veriest rudimentary detail, largely rehash from cyclopedias and similar works, elaborated and augmented by immaterial and irrelevant verbiage, has the value of the instruction, though lacking in a few minor essentials that the professional practical gardener turns out. Horticultural books written for the purpose of instructing should instruct; to be entertaining rather than informative robs them of their raison d'être, and, consequently, their usefulness.

It is observable, too, that even our trade papers are tending to degeneration in the character of their literary material. We all are inclined to furnish too much "patier;" some more so than others. The majority, if not all, of this class of reading has, of course, no permanent value, and, we sometimes think, but little present worth. To be informed that John Brown is sending into market some good geraniums is of as much benefit to the trade at large as to tell them that John Brown's tomcat goes out o' nights. The only conclusion to be drawn from an item of this kind is, that both John and his Thomas are normal creations, each in his respective class, the former as a gardener, the latter as a feline. If the facts were otherwise, they might or might not be interesting, in a measure.

We question very much whether this sort of trade journalism is not being carried to excess, and, while confessing to being delinquent in a degree along the lines mentioned, we should like to have an expression of opinion on the subject from our readers. As regards the really solid, practical material provided by our trade papers, we believe it averages up well, if it does not excel, the literature of similar periodicals published in other countries. Of that we feel somewhat confident, so far as The Florists' Exchange is concerned, judging by the numerous extracts from our columns appearing in our esteemed foreign contemporaries, and from the opinions of our paper that are vouchsafed us by those who are in a position to know what real merit is.

We Are National.

There is an erroneous impression abroad, how generated we are at a loss to understand, that The Florists' Exchange is merely an Eastern publication, circulating most largely in the Eastern States. While it is true that we have an exceedingly large clientele in the East, it is equally true that our paper is very extensively circulated and read in every other part of the United States where attention is being given to commercial horticultural pursuits, comparing favorably in this respect with the journals whose publication offices are located in a Western city. In proof of this statement we would refer our readers to our Question Box column this week, which contains inquiries from readers in Arkansas, Texas, Dakota, New York State, Massachusetts and other points. This not only proves the comprehensiveness of our circulation, but it as well exemplifies the valuable character of the information supplied by The Florists' Exchange, when readers, doubtless in need of quick response to their questions, come right to us for replies, in preference to going to other trade journals, published nearer to their homes.

We would respectfully ask advertisers in the West to make a note of this. It is our firm belief that The Florists' Exchange will be found equally advantageous as an advertising medium for Western folks; in fact, for the trade located in every part of the United States. You can prove this averment by a trial, and to that end, and for the good it will do you, we respectfully solicit your business.

Eckford Testimonial Fund.

Subscriptions acknowledged.

The Florists' Exchange.....	\$10
Burpee, W. Atlee & Co.....	10
Morse, Lester (of C. C. Morse & Co.) direct to secretary of National Sweet Pea Society, England, 25 Rowden, George, Wallingford, Conn.....	2



Obituary

Otto Kroeschell.

The body of Otto Kroeschell, the boiler manufacturer, who disappeared from his residence, 450 Dayton street, Chicago, May 8, was taken from the north branch of the Chicago River last week by a dredge at work widening the channel at Addison avenue. The condition of the body indicated that it had been in the water for nearly a week. No marks of violence were found other than those made by the scoop of the dredge, and it is supposed Mr. Kroeschell walked into the river while in a dazed condition due to mental derangement, which is ascribed by the family to the death of his brother, Albert Kroeschell, who succumbed to a stroke of apoplexy last Thanksgiving Day while bowling in the rooms of the Chicago Social Club.

Mr. Kroeschell was secretary and treasurer of the Kroeschell Bros. Company, manufacturers of boiler plate and steamfitting material, and treasurer of the Kroeschell Ice Machine Company, 29 to 55 Erie street, Chicago. He left his residence, apparently on his way to his place of business.

Aside from his business relations, Mr. Kroeschell had many acquaintances. He was a member of the Germania and Chicago Social clubs, and of the Royal Arcanum. He was born in Nashville, Tenn., in 1852. He was 10 years old when his parents moved to Chicago, and he attended the Franklin School. Mr. Kroeschell first engaged in business with his brother, Albert, in 1879. They started a steamfitting shop at 412 Michigan street. Five years later they were joined by the other two brothers, William and Charles, and the business has grown to large proportions.

Twenty years ago Mr. Kroeschell married Miss Theodora Sittig, of Chicago. Two children, Irma and Roy, are living.

BOOKS RECEIVED.

EXPERIMENTS WITH PLANTS. By W. J. V. Osterhout, Assistant Professor of Botany in the University of California. Publishers, the Macmillan Company, New York. Price, \$1.25.

This is an interesting volume, designed more particularly for the use of schools and colleges. It treats on such subjects as Seed Germination, the Work of Roots, of Leaves, of Stems, of Flowers, and of Fruits; tells how plants are influenced by their surroundings; and chapters are also devoted, respectively, to Fungus Plants and Plant Breeding. A number of inexpensive apparatuses for laboratory work are figured and described. There is much in the book that is of value to the practical horticulturist, especially the information given on how to make an analysis of soils. For its dominant purpose, however—a text book—the volume will be found invaluable. It is profusely illustrated.

HOW TO KNOW WILD FRUITS. By Maude Gridley Peterson. Publishers, the Macmillan Company, New York. Price, \$1.50.

The author, having observed the dearth of literature affording information that would enable one to readily identify many fruiting wild plants by their berries, etc., after the flowers had passed, has been prompted to publish this volume to meet in a measure this long-felt want. Approximately, 200 plants of the character mentioned, found in the northeastern section of the United States, are illustrated and described; these being classified according to their families and species, and treated on throughout the work under the headings of the color of the fruits. The whole furnishes a ready means of identification; information on the fruit, leaves, flowers, native habitat, etc., being provided. The illustrations are excellently executed; and a full glossary and indices add to the value of the volume.

INDEX FILICUM, by Carl Christensen. Publisher, H. Hagerups, Copenhagen, Denmark.—The first part of what promises to be a most useful work has been issued. The book, when completed, will be divided into three sections, one containing a systematic enumeration of the genera of ferns, based on the system of Engler and Prantl, "Die natürlichen Pflanzenfamilien;" section two, an alphabetical enumeration of the species and synonyms, which will embrace, as far as possible, all names and combinations of names published from 1753 till 1905, and will also comprise the names of garden ferns, especially of those appearing during the past thirty years. Section three will be devoted to an alphabetical catalogue of the literature on ferns—works and writings—wherein new genera and species are described or examined. Such a work, entailing, as it must, an immense amount of careful research, will be of incalculable value to all persons and institutions interested in the subject of pteridology.

FRAGRANT FLOWERS AND LEAVES. By Donald McDonald, A.R.H.S.

Frederick Warne & Co., New York, will publish immediately a book on this subject. It will contain notes on their history and utility, and interesting associations gathered from many sources, with an introduction by Wm. Robinson, author of "The English Flower Garden."

OUR READERS' VIEWS

Free Trees and College Competition.

Editor Florists' Exchange:

Surely every nurseryman will heartily agree with all Mr. Vaughan says regarding the free tree distribution, etc., by cities. But, it seems to me, if the shoe pinches me, that is another thing. Last year I complained in a Western trade paper about the Iowa State College at times selling cut flowers and plants ruinously cheap; but Professor Price, now in Ohio somewhere, said: "Better something than throw the stuff away." The present Professor Erwin follows the same plan. He defended his position by stating that the greenhouses of the State College are run on business principles. I asked him where the money came from? The first principle with a florist is to furnish his own money, and there is no State of Iowa to back him by buying coal, building houses, paying help, etc. He thought I was a "funny man." "What right," I said, "do you fellows have to ruin a citizen taxpayer with the aid of the taxes he pays?" No other florist in the broad land ever expressed himself on my remarks in the paper mentioned, probably because they all live at safe distances from the Ames State College. So the shoe does not pinch these gentlemen yet. There is another thing: Has the State College at Ames the right to supply the great Chicago & Northwestern Railroad system with bedding plants, etc.?

J. LOEHRER.

Boone, Iowa.

Training Peaches and Nectarines.

Editor Florists' Exchange:

In your issue of May 20 I was surprised to see Mr. Turner advocating that old, and what I presumed was dead and forgotten, system of training peach and nectarine trees, crosswise of the house in preference to what is known as the fan system. I am equally as much surprised when he says that they are easier to handle, and that they receive more benefit from the light than when grown under the usual system, which is certainly not my experience. Some years ago I had charge of a large fruit-growing establishment in the Channel Islands, where grapes were grown by the ton and peaches by the bushel. Something like two hundred and fifty peach and nectarine trees were grown under glass on the system Mr. Turner advocates, which proved to be so unsatisfactory that this style of training was done away with. I also had another experience with a house considerably over 200 feet long in England, with the same results; and have had others on a smaller scale. I would warn your readers against adopting this system without further investigation. I cannot for the life of me see how Mr. Turner is going to get as much light on the crosswise system as the other one, for if the fruits are properly thinned, all those underneath taken off, and only those on the upper side left, the leaves being carefully pulled underneath the fruit, as is done by most leading growers in England, I do not see how it is possible to give them more sun and light under any other system whatever. Neither can I agree with him that his system makes the house more attractive. When growers who have to make their living out of these fruits give up this system, men who have had years of experience and who have tried every possible system turn back to the old fan system or up to the glass, as Mr. Turner puts it, it is pretty good evidence as to which is the best.

Again, Mr. Turner says a great deal depends as regards the flavor of the fruit, on the treatment they receive from the time the fruit commences to color; but he fails to give this treatment. Perhaps he will oblige in your next issue. I will remember a good many years ago attending a fruit and flower show in England, where a well-known fruit grower was amongst the exhibitors. He was, as usual at this show, beaten by a man whom he considered greatly his inferior as a fruit grower. He made use of the remark: "We can always beat this man for size, color, and everything until it comes to flavor, and then we are simply not in it." There are but few who grow fruit under glass that understand the art of putting flavor into it, as this man did; and fruit without flavor is almost as good as a common turnip.

I have read, from time to time, with much interest, Mr. Turner's remarks on fruit culture under glass. Some time ago he referred to the bad setting properties of the Canon Hall Muscat grape. I would like to know his ideas in regard to overcoming this difficulty with this variety. I have had some little experience with it myself, having had a house 150 feet long devoted to its culture. I would also like to ask Mr. Turner if the bloom once taken off the berries can be replaced? If so, how? I heard an interesting discussion on this subject some time ago, and would like to have his opinion upon it.

H J CORFIELD.

Birmingham, Mich.

MORA, MINN.—A. W. Patten has decided to go into the nursery business here, and will devote his entire time to the growing and propagating of hardy fruit trees, small fruits and a general line of nursery stock.

Reflections on Current Topics.

MR. EDITOR:—In reference to that parroted proposition of yours, in issue of May 20, that the S. A. F. award its medals to men who have some noteworthy horticultural achievement to their credit, it seems to me you seek to impose upon the society a task more difficult of satisfactory consummation than the settlement of the "closer relations" wrangle. The cause of horticulture may be enhanced, or advanced, in so many ways. This may be done by the creation and introduction of novelties, as you suggest; then horticulture may be also advanced by scribbling, by talk, and such like means. I am led to make the latter remark because I once read that, at a banquet given to an honored horticulturist, one of the speakers said the guest of the evening "had done more for horticulture than any other one man;" yet, so far as I ever knew or heard, that same guest has not even a new carnation to his credit as a horticulturist. Then, at recent S. A. F. meetings, some of the essays were said to be the "best ever," doing more for the members, consequently for horticulture, than the big bunch of like literature that had gone before. I doubt not, too, but John Birnie believes he is an advancer, or enhancer, of horticulture, because he makes flippant remarks on how the New York wholesale cut flower business is conducted.

If the society should carry out the Burton proposition to its legitimate and logical conclusion, there should, I think, be medals of different and differing grades of merit, and as the list of recipients must necessarily be limited, I herewith append my selection of the dozen men whom I should like to see thus honored:

Wm. R. Smith, a gold medal and clasp, as the "Father of the S. A. F."

John Thorpe, a gold medal, simply for having once been the society's father.

Wm. J. Stewart, a gilt-edged silver medal, for long and meritorious society service, tenacity of purpose, etc.

Edwin Lonsdale, a silver medal, for exposing the Burbankian fallacies, and proving to his own satisfaction that the Wizard of California is not the only "bristle in the brush;" also for discovering that the American Beauty is a French rose, and that it has no "a" in its Gallic patronymic.

George C. Watson, a bronze medal, for perseverance in not proving that a committee is an association when peonies are concerned.

William Scott, a brass medal, for having more to say on the subject of horticulture than all other horticulturists, so-called, combined. He, with Paul Jones, deserves a monument, and, very likely—won't get it.

John G. Esler, a tin medal, for discovering that Rudd can be ranked in the same classification as Job, viz., in the mulish and asinine species. [P. S. Rudd has, in my opinion, done nothing for horticulture entitling him to a medal of any kind. J.]

John Birnie, a wooden medal, for introducing the bagpipes into horticulture. A suggestion is here made that this instrument be employed in the convention hall, when the various medals are pinned on the manly bosoms of the recipients, a procession formed, and these worthy men, in company with the "receivers" at the president's reception, marched round the hall for public approval and inspection.

The Poet Laureate, a leather medal, he being an example of the truth of the statement that the best horticultural poetry is made on an empty stomach; in other words, that viands in prospect inspire doggerel verses.

"Phil," a similar reward, as a generator of original ideas on horticultural advertising; also for egregious versifying on the style of his prototype, the laureate.

"The Traveler," a leather medal, for jarring the jelly jars, long-necked bottles and other misfit appendages at shows of "subsidized" horticultural societies; also as a peripatetic popularizer of the proverb, "Where ignorance is bliss, 'tis folly to be wise" on things horticultural.

W. N. Craig and J. W. Duncan, half of a leather medal each, for an excellent demonstration of the doggedness of horticultural controversialists.

On the waiting list I would place William Falconer, Patrick O'Mara, E. G. Hill, C. W. Ward, Fred. Dorner, Peter Fisher, all for gold medals; presidents of florists' clubs, secretaries of other societies, to be selected from afterward, for silver medals, and for a spare cowhide chest adornment, the champion bowler at the Washington convention, Carmody, Dr. Bunyon and

JOB.

NEWPORT, R. I.—The Rhode Island Nurseries report the season as being one of the very best; in fact, more orders than could be well taken care of some days. The demand for large stock increases every year, and it will take many years to catch up with the call for large specimens, as they take time to produce. At Wilson's nurseries the same story is told. In past years large specimen trees were hard to sell; now the question is to get some to sell at almost any reasonable price.

F. W.

The Cultivation of Peonies.

(Robert Tracy Jackson, Cambridge, Mass., before the Boston Gardeners and Florists' Club.)

(Concluded from page 676.)

Labeling.

Some method of keeping track of the names of peonies is a necessity to any careful gardener. When planted in rows or widely scattered, lists may suffice; but the best method is good labels, if supplemented by a list so much the better. Ordinary wooden labels six inches, or even a foot, long are practically worthless, being soon lost by decay or broken by garden operations. Heavy wooden labels, white pine, cypress or cedar, eighteen inches to two feet long, of seven-eighths inch stock, with the ends dipped in tar, or well soaked in linseed oil, then painted on both sides, reserving a space for writing, and the name painted or written on them, are excellent, but expensive and conspicuous.

A label that is cheaper, simpler to prepare and less conspicuous as far as that feature may be desired, is a zinc label attached to an iron rod. Such labels I have used for over twenty years with entire satisfaction.

Supports.

Unless supported in some way the larger, heavier peonies are apt to be beaten down when in bloom by wind and rain, and seriously injured. To obviate this difficulty some form of support is highly desirable. When planted in rows stakes may be driven into the

striking as garden flowers, and are of interest principally to the collector. They might, of course, be of value in hybridizing, to break the blood of cultivated forms.

The earliest peony to bloom is *Pæonia tenuifolia*, both the single and double forms, which appear in May. The flowers, though small, are of brilliant coloring, and well worth growing. Next in succession comes *Pæonia officinalis* var. *rubra*, the old-fashioned double red peony of our grandmother's garden. Its superb color, freedom of bloom and large size when well grown, render it one of the best of peonies, and indispensable in a garden. *Pæonia officinalis* var. *rosea*, a fine nearly cherry red variety of much merit, and var. *alba*, which is a delicate pink on opening, changing to white before fading, are important additions, both as being good peonies, and as coming early, and therefore extending the season of bloom. Other varieties of *officinalis* are listed in foreign catalogues, but I have not seen them.

Tree peonies, or *P. moutan* varieties, come with the *officinalis* and extend over to the season of the Chinese peonies. *Pæonia moutan*, according to authorities (Lynch), is not known in the wild state, being known only in cultivation, first in China and Japan, where it has been grown for a very long period of time. Professor Charles S. Sargent writes me that he does not know of it in the wild state, but believes that it will sooner or later turn up. It is a somewhat remarkable fact that a large growing shrubby species, and the only shrubby species of the genus, should be known only as a cultivated plant. Tree peonies are not as easy to grow as herbaceous peonies, are less hardy and more difficult to propagate; also it is not as easy to get really choice varieties. As far as known, all the tree peonies in the market are grafted on *moutan*,

best to bloom, but some double varieties are nearly as early. In the past two years the early Richardson seedling, George B. Sowerby, has been in full bloom on the fourth of June. The latest of the choice seedlings raised by Mr. John Richardson, named Milton Hill, this year had secondary blooms still left in July. We may therefore by selection, starting with *Pæonia tenuifolia*, get about six weeks or a little more of flowering season for peonies. It would be desirable for dealers in peonies in their catalogues to give more explicit statements of season of bloom, especially the earliest and latest varieties as an aid to purchasers.

The Qualities of a Peony.

In considering the qualities of a peony, color and form are of the first importance. Freedom of bloom is also an important feature, for some varieties while of good form and color are such shy bloomers that they are from this quality not desirable for the general cultivator with few varieties. Extra freedom of bloom, on the other hand, is a feature especially desirable. One other point of much importance is strength of stem. Many fine peonies have such weak stems that they flop over hopelessly from their own weight; others stand erect, thereby developing their flowers much better, and showing off to infinitely greater advantage in the garden. Lasting qualities, both on the plant and as cut blooms, are features of importance, especially to the dealer in cut blooms.

Flowering of Seedlings.

Seedlings of *Pæonia albiflora* varieties require four to six years to bloom. The seed should be planted as soon as ripe in rich, mellow soil; if protected by frames, so much the better. They are best left without disturbance until blooming, but if planted too thick, will have to be transplanted. Very double flowers rarely set seed, yet an occasional capsule will develop on an otherwise sterile plant. Harrison says that: "Seedlings will often bloom single for years and then turn double." I have never seen such a case. Doubtless seedlings may improve in size and quality with age, but as far as my experience has gone the first bloom, if strong, is a very close indication of what may be expected as the permanent character of a seedling.

It would be highly desirable for peony dealers to insert in their catalogues after the names of varieties the name of the originator. It is only fair credit, and adds much to the interest in these and other plants to know something of their history, who raised them and when. This is done somewhat, but rarely systematically, as it should be. Messrs. W. A. Peterson, of Chicago, and C. W. Ward, of the Cottage Gardens, Long Island, in their catalogues for 1904, note the originators of peonies very fully; also the Lemoines, of Nancy, France, do the same, though not as fully. On the other hand, the Kelways, of Langport, England, list their own seedlings, but ignore the names of other growers.

Work of American Peony Society.

The American Peony Society is studying the nomenclature and seeking to ascertain as far as possible when and by whom each variety was raised. The results of their inquiries are looked forward to with interest. Professor John Craig, of the Horticultural Department of Cornell University, at Ithaca, New York, in conjunction with the American Peony Society, is attempting to collect and grow all the known varieties of herbaceous peonies. By this means the synonymy can be straightened and the really best varieties ascertained. He has already gathered over six hundred varieties, which are to be grown in a fine piece of land well adapted for peony culture. Such experiments are of a high degree of value and interest, carried on by recognized experts, under auspices of an impersonal character, and where they can receive the benefit of a critical study best found in such a horticultural centre. Similar studies of other groups of cultivated plants, it is believed, would be productive of much good.

Another thing that might well be done by the American Peony Society, or by a horticultural society, or journal, is to prepare and publish a bibliography of the literature of the peony, including references to published figures of species and varieties. Such a bibliography could, to advantage, be annotated by the editor. Many short, but important, articles are apt to be overlooked, and a cultivator wishing to see a figure of a given variety, or species, may have a long search before finding it; or may take the trouble without reward, because no published figure may exist. Bibliographies of special topics are an important feature in scientific subjects, and it seems that no more important matter could be taken up for the advancement of horticulture than lists of published papers, or larger works, on our more important cultivated plants.

Carnation The Marquis at Easter.

The accompanying illustration shows a bench of The Marquis carnation at Easter, at the establishment of L. E. Marquisee, Syracuse, N. Y., demonstrating that with proper management it is still one of the "good things." J. B. B.



BENCH OF THE MARQUIS CARNATION, EASTER, 1905—GROWER L. E. MARQUISEE, SYRACUSE, N. Y.

ground at intervals, with a connecting wire run along the top; cross wires or light sticks secured to the connecting wires between plants are a material help. Another method, and one used by the late Mr. John Richardson, is to drive down two or three stakes around each plant, connecting them by a stiff wire stapled to the top of the stakes. Barrel hoops attached to stakes make very good supports, but are limited in size and are rather conspicuous. A most satisfactory support, the best I have seen, devised by W. C. Egan, with slight modifications of his description, is made as follows: Three iron rods, three feet long, are made of heavy wire one-quarter of an inch in diameter; an eyelet is bent in the top, and the rods are galvanized after they are cut and bent. A circular connecting wire of lighter weight, one-eighth of an inch in diameter and six feet six inches long, is passed through the eyelets and made secure by looping the free ends over the wire in such a manner that they will slip on the wire. Thus one can have the circular wire of full size or reduced to any smaller diameter desired, and held in the reduced size by tying one end. Such supports are very inconspicuous, being practically invisible in a well-grown plant, and have given satisfaction to several peony growers who have tried them. They are made by Morss & Whyte, a Boston wire-working firm, for three dollars a dozen. The supports as described by Mr. Egan are made of heavier wire, three-eighths inch in diameter, which seems unnecessarily heavy, and legs two and one-half feet long, which are too short for my peonies.

Number of Species.

According to Baker in his revision of the species, there are about two dozen species of peonies. He lists twenty-two species with their synonyms. Lynch lists and describes twenty-five species, and figures the foliage of many of the species. Excepting *P. tenuifolia* and perhaps *P. Wittmanniana* (which is somewhat difficult to grow), most of the species are said to be not

albiflora or *officinalis* stock. Auguste Dessert claims that they do best grown on *moutan* stock, although it is difficult to get roots of this stock large enough. He says that they use *sinensis* (a variety of *albiflora*) stock, and cut scions with two or more eyes and so disposed that at least one eye is beneath the surface of the ground. This eye greatly encourages the formation of roots in the graft. Kelway gives interesting notes on raising *moutan* seedlings, and in regard to grafting says: "First procure a sufficient quantity of tubers of *P. sinensis*; cut these into lengths of about six inches; then take grafts from the sorts you wish to increase and insert these into the upper end of the tuber in the ordinary way of side-grafting; tie securely and cover the junction with grafting wax so as to exclude the air. These should now be potted into five-inch pots, using a rich compost; the pots should be plunged into frames unheated; give a good watering, and cover the frames with a thin mat to partially exclude light. In the winter they should have an extra mat to protect them from severe frost. The best time to perform this operation is in the months of August and September." Tree peonies do well on *officinalis* stock as I know from experience. The Japanese, I believe, graft on *moutan* stock alone; but one difficulty with that is that shoots from the stock cannot be distinguished from shoots from the scion until blooming, whereas shoots from *albiflora* or *officinalis* stock are detected at once. Layering as suggested by some writers, though slow, would doubtless yield most satisfactory plants.

The Chinese peonies of the *Pæonia albiflora* stock come next in season of bloom. The varieties as known appear to be the results of variation of the stock, hybridization, or the crossing with other species, having entered in very little, if at all, as far as one can judge from the character of the foliage. They are in bloom about the first of June for the earlier varieties, and extend into July for the last blooms of the later varieties. The single varieties are usually amongst the ear-

Our London Letter.

BY A. HEMSLEY.

THE ROYAL HORTICULTURAL SOCIETY.—At the meeting held on April 26, though coming on Easter Tuesday, exhibitors turned out in goodly numbers, and during the afternoon the hall was thronged with visitors. Among the new plants, *Meconopsis integrifolia* was the centre of attraction. This hardy plant, which comes from Western China, grows about eighteen inches high, and produces several large, tulip-like flowers on a stout stem. They are of a soft, clear, pale yellow color, and droop over a little; the leaves are long, strap-shaped, and covered brown with hairs. It was shown by Messrs. Veitch & Sons (Ltd.), and was unanimously awarded a first-class certificate.

Another new scarlet carnation was shown named Elizabeth; a seedling raised from the variety America. The flowers, which are of a clear color, have a perfect calyx and large, broad petals, but hardly so full in the center as some varieties. An award of merit was given. It was shown by a private grower, but I understand it will be distributed by Messrs. George Paul & Son, Cheshunt. The above makes the fourth scarlet variety which has gained the distinction from the committee, the others being Adonis and Flamingo from America and General Kuroki from Messrs. Cutbush & Sons, Highgate. It would be interesting to see all these grown together and prove which is really the best. Harlowarden, the crimson from America, recently gained an award, and to me this seemed much like The President, which gained the same distinction some months ago. The best whites I have seen were The Belle and Lady Bountiful which Mr. Dutton had in the market recently. Of these the blooms were perfect.

Daffodils were again to the front and some new varieties were shown. Miss Willmott, V. M. H., was awarded a gold medal for a very choice collection, several of which were raised in Miss Willmott's own garden. Helen, Countess of Radnor, a grand variety of the Ajax type, received an award of merit. From Messrs. Bath (Ltd.), Wisbech, came two which secured the same distinction. They were Cornelia, a fine yellow, and Marie Hall, a fine bi-color. From a private source came Banzai, an improved Mme. De Graaff, and Countess Stamford, a pure white, which will prove a rival to Peter Barr. Messrs. Barr & Son had some fine seedlings of the same type, but these were unnamed.

Clematis in pots were well shown by Messrs. R. Smith & Co., Worcester, and William T. R. Russell, Richmond, also had a fine lot of well-flowered plants. These are now much appreciated for florists' work, but we do not often see them so well done as were those shown.

Sweet peas were splendidly shown by Mr. Engleman, Saffron Walden. They included all the best shades of color for market work. King Edward VII. was one of the best reds; Princess May, mauve, and Dorothy Eckford, the best white. Miss Willmott has no rival as a pink, and Hon. Mrs. Kenyon is the finest of the yellow shade. Mr. Engleman grows them in large, span-roofed houses, and has 4,000 feet of glass devoted to sweet peas. He has selected some which promise to give us a race of earlier flowering sorts.

Orchids continue to be prolific in new hybrid varieties. Several fine things gained first-class certificates. I think the certificated varieties are getting too numerous; every fortnightly meeting sees further additions made. Some years ago the run was on hardy ferns, and in the course of a few years about two hundred varieties of *Scolopendrium vulgare* were certificated, and about the same number of *Athyrium filix-femina*, and other hardy ferns received distinction; but it is now rarely that any of these are brought forward. Choice collections of exotic ferns are also out of fashion at present. It is only those likely to prove useful for market (or florists' work) that receive much attention. Even the market sorts do not seem to go quite so well as they did a few years ago.

Flowering plants are more in demand. Zonal pelargoniums are still much in favor, and have to a great extent taken the place of the show and regal sorts, but these are more to the front this season. Well flowered plants of the ivy-leaved sorts were not in quite so early, but they are now very good, and are likely to be much used for decorations, as well as for window box work. They work in well for making up the floral baskets which are now a great feature in most of the florists' windows.

ROSES.—These have never been so well supplied as we have had them this season, especially the large blooms on long stems. It would be a great surprise to some of the older growers to see what we now get in the market. Mme. Caroline Testout, La France, Mrs. Sharman-Crawford, Captain Hayward, Ulrich Brunner, Liberty, Kaiserin Augusta Victoria and Bridesmaid have been among the best. I must not omit Mme. Abel Chatenay; this has been exceptionally fine. I am afraid growers have been disappointed with the returns, for what with the extra large supplies and dull trade, if some have made good prices it has been impossible to clear at anything like remunerative figures.

THE SPENCER SEEDLESS APPLE.—Some time ago this was written up as a "great wonder," and fruits were sent from Colorado. These were offered at auction, and an enterprising firm of fruiterers and florists—Messrs. Shearn & Son—purchased them for the moderate sum of £3, and have since exhibited them. So

much having been written about them, great interest was created, and many have been anxious to secure trees of this phenomenon. However, the spell is now broken, for, in the presence of several representatives of the press, the apples were cut open May 2, and were found to have perfect seeds and a hard core, the core being more prominent than in other apples cut for comparison.

Ornamental Seeds.

At a recent meeting of the Barbados Natural History Society a paper was read by Mr. W. R. Buttenshaw, M. A., B. Sc., on "A West Indian Curiosity Shop, from a Botanical Point of View." Mr. Buttenshaw's account of ornamental seeds is reproduced here as it is likely to be of interest to our readers:

Among the wares of the West Indian curio shop a prominent place is always occupied by the rosaries, necklaces, bracelets and other ornaments made with seeds. There is in the West Indies a fairly large number of pretty and striking seeds suitable for this purpose. The following list includes, I think, most of the seeds employed in this way. From a botanical point of view, it is an interesting point to observe that the majority of the plants yielding seeds of this kind belong to the natural order Leguminosæ. We will deal with these first:

ABRUS PRECATORIUS.—The seeds known as "Crab's Eyes" are used for making necklaces, rosaries,

LEUCAENA GLAUCA.—The seeds of this tree, known as "wild tamarind," are used for fancy work in several of the islands, notably for baskets, work-hags, etc. In Barbados they are called "mlmosa seeds." In appearance they are flat and dark brown, with a shining surface.

ORMOSIA DASYCARPA.—This tree bears the true "jumbec" or "John Crow" beads. It is also known as the "West Indian bead tree" or "necklace tree." The seeds are somewhat varied in size, round and flattened, mostly scarlet with a black blotch at one end. The generic name is derived from the Greek word Ormos, a necklace. Not only are the seeds threaded into bracelets and necklaces, but are mounted in gold or silver for studs and buttons.

PITHECOLOBIUM UNGUIS-CATI (Bread and Cheese).—Black, shiny seeds, with rosy arillus, used for necklaces and bracelets.

Of non-leguminous seeds the following are used:

ANACARDIUM OCCIDENTALE (Cashew).—The kidney shaped nut is frequently mounted for pendants.

CANNA INDICA (Indian Shot).—I have not come across these seeds in any West Indian curio shop, but in India and East Africa they are used as beads and made into necklaces.

COIX LACHRYMA-JOBI (Job's Tears).—These are used for all sorts of ornamental purposes; not only for necklaces, bracelets, girdles, etc., but also for trimming ladies' dresses, etc. Mats are also frequently made of Job's tears.



Photo by John F. Johnston

ZINNIA ELEGANS

etc. In fact, the specific name "precatorius" shows at once the connection with "praying." In India they are used by goldsmiths as weights. These well-known scarlet seeds with their black eyes need no description.

ADENANTHERA PAVONIA (Circassian Seed Tree).—In Porto Rico it is known as "coral plant," since the seeds can be used in making scarfpins, etc., in the place of coral. It is also commonly used in making necklaces, etc. The seeds are of a uniformly bright, scarlet color, devoid of markings, somewhat lens-shaped, $\frac{1}{4}$ to $\frac{3}{4}$ inch in diameter; are particularly uniform in size and weight, and on account of this latter characteristic are, like "crab's eyes," used in India as weights.

ALBEZZIA LEBBEK.—The woman's tongue tree, or, as it is known here, Barbados ebony. These seeds are not in such common use as those already mentioned for ornamental work, although they are among those used in Barbados for necklaces, etc. They are of a pale brown color and are flat.

CAESALPINIA BONDUCELLA.—This is the horse nicker tree—bearing the gray nickers—common along our coasts, and therefore well known to you all. The seeds are used for making rosaries, necklaces, etc. These are rather large seeds—from $\frac{1}{2}$ to $\frac{3}{4}$ inch in diameter—and of a dull lead color.

CAESALPINIA BONDUC is the name of the tree that bears the yellow nicker seeds. The specific names of these two plants are derived from the Arabic, bondog, signifying a necklace.

CROTOLARIA RETRUSA (Rattle Bush, yellow).—Used for making necklaces, chains, etc.

ERYTHRINA CORALLODENDRON.—Various named the "red bean tree," "coral tree," "coral bear tree," "bead tree," etc. The last name in allusion to its seeds being strung as beads in chaplets. The seeds are scarlet with a little black spot.

SAPINDUS SAPONARIA (Soap Berry Plant).—These round black seeds were formerly exported to England for use as waistcoat buttons; they are now often strung as beads. The watery juice yielded by these seeds makes a lather with water, and therefore serves all the purposes of soap, but is liable to injure clothes. Used for rosaries in the West Indies.

THEVETIA NERIFOLIA.—This is an important plant from the curio dealer's point of view, as it yields the well-known "lucky seeds," or "lucky beans." In the Northern Islands it is known as "milk bush." This plant belongs to the Allamanda order (Apocynede), and has, indeed, a very similar yellow flower. The seeds are usually mounted as pendants.—Agricultural News, Barbados, W. I.

Zinnia Elegans.

This is the common species, from which most of the garden forms have originated. Zinnias, sometimes called "youth and old age," will always be great favorites with lovers of hardy flowers. They are hardy annuals and are among the most brilliant and showy of this class. Many distinct colors are to be found among zinnias, viz., white, yellow, orange, scarlet, crimson, lilac, magenta or purple. They are very floriferous plants, flowering continuously from early Summer till killed by hard frosts. When planted in large masses they prove very effective. The zinnia belongs to the composite family. For early flowering the seed can be sown in the greenhouse or hotbed, and the young seedlings afterward transplanted or sown later directly in the open ground.

Glen Cove, L. I.

JOHN F. JOHNSTON.

The corporation of Vienna, Austria, has decided to establish a phytopathological institute, or plant hospital, where the diseases of plants will be studied. Arrangements will be made whereby valuable sick plants may be sent to the institute for treatment.

CLUB AND SOCIETY DOINGS

LENOX (MASS.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held May 20. Committees were appointed for the Summer show, which is to be held June 22, 1905. C. O. D.

THE MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—A very well attended meeting of this society was held May 19, President Hale in the chair. The discussion of the evening was "Chrysanthemum Culture." President Hale presented the first prize winner for an essay on "Chrysanthemum Culture," H. A. Griffiths, with a beautiful silver cup. The second prize winner, Joseph Kennedy, received the society's certificate. Secretary Kettel announced the receipt of \$10 from Vaughan's Seed Store, as a premium for our Fall show. Wm. Turner exhibited a fine bunch of Black Hamburg grapes, beautifully colored, weighing 3½ pounds. It scored 93 points. B.

THE NEWPORT (R. I.) HORTICULTURAL SOCIETY on Wednesday last held its regular meeting. President Sullivan in the chair. The various committees in charge of the Rose and Strawberry Show next month are doing their very best to make this exhibition a grand success; many special prizes have already been offered by interested persons. A splendid massive solid silver cup has just been received from Miss Alice Keteltas, of New York, as her special prize at the show next month for the best gateway arrangement of plants. John K. M. L. Farquhar, chairman of the committee on prizes and exhibitions of the Massachusetts Horticultural Society at Boston, Mass., was a very welcome visitor; and while he was obliged early in the evening to leave us to catch the last Boston train, we did not let him go without his promise to come again soon and tell us about his recent trip to Europe. The next meeting occurs Wednesday evening, June 7. F. W.

DUTCH HORTICULTURAL AND BOTANICAL SOCIETY.—The floral committee of this society at its April meeting awarded first-class certificates to Odonoglossum Harryanum × crispum, from W. C. Baron von Boetschar at Maartensdyk; to Cypripedium × Felix Putheys, from H. C. Hacke, Baarn; to Lycaste Skinnerii Johanna Smit, from C. J. Kikhert, Haarlem; certificates of merit to Primula polyanthus Velvet Queen, as a new plant from A. M. C. von der Elst at Dedemsvaart; to Cypripedium Charles Canham aurea, from H. C. Hacke, Baarn; to Brassia Lælia Mrs. Gratrix, from H. C. Hacke, Baarn; to Pteris Wimsetti × tremula, as a new plant, from A. C. Dikker, De Steeg; to Ada aurantiaca Royal Prince, from F. G. von Tienhoven, Haarlem; to Primula acaulis Pompadour, from B. Ruys, Dedemsvaart. Honorable mention to Primula polyanthus Bruno, as a new plant, from A. M. C. von der Elst, Dedemsvaart; to Bellis perennis Alice, from B. Ruys, Dedemsvaart. A silver medal was awarded to a collection of 12 astilbes from G. F. Hemerik, Leyden, first prize, and a bronze medal to W. von Veen, Leyden, second prize.

New York Botanical Garden.

At a meeting of the Board of Managers of the New York Botanical Garden, held last week, it was voted to grant to the director-in-chief of the Garden, Dr. N. L. Britton, a leave of absence for six weeks, in order to attend the second international botanical congress, and to make a restudy of botanical gardens at Paris, Geneva, Vienna, Berlin, Kew and elsewhere in Europe. He will sail on May 27, and will go first to Paris.

The international congress will be held at Vienna from June 11 to June 13. The first congress of the kind was held at Paris at the time of the Exposition, in 1900, and was attended by about one hundred delegates from all parts of the world. This body will be composed of the Commission on Botanical Nomenclature, which was appointed by the first congress, and will make a report to this one; and of representatives of national governments, learned societies, academies and other institutions. Dr. Britton, who was a delegate to the first congress, is a member of the International Commission, and will not only be a delegate from the New York Garden and the Torrey Botanical Club, but has been designated by the State

Department to represent the United States Government. The only other delegate from this city is Prof. L. M. Underwood, of Columbia University, who will represent the New York Academy of Sciences. There will be about ten more American delegates, from various parts of the country.

In addition to the duties already mentioned, Dr. Britton, while abroad, will arrange for the purchase of books for the Garden's botanical library, in an effort to perfect it in the line of works by the older authors, which are constantly becoming more difficult to obtain, owing to the competition for rare works between libraries all over the world. This effort has been made possible partly by contributions from persons interested in the development of the Garden, and partly by an appropriation recently made for the purpose by the Board of Managers, from the regular income of the institution. It is hoped to expend not less than \$10,000 for this object within the next two or three years.

Another errand will be the purchase of certain rare and desirable living plants not to be procured in America, for which an appropriation has also been made. In connection with this, special attention will be given to perfecting the collection of living cacti, already very large, which it is designed to make the most complete in existence.

The publication, by the Garden, is announced of the first part of "North American Flora." This work, in its entirety, is designed to present descriptions of all plants growing wild in North America, using that term in its broadest sense; so as to include Greenland, on the north, and the republic of Panama and the West Indies, as far as Grenada, on the south. The work is to be completed in thirty volumes, and will engage the services of a large number of contributors, under the general charge of Dr. Britton and Prof. L. M. Underwood.

The managers voted that a part of the income of the Olivia E. and Caroline Phelps Stokes fund, for the preservation of native plants, be devoted this year to the payment of prizes for essays on the subject, with special reference to the local needs of New York City and its parks. These essays are to be submitted by November 1.

Much interest was expressed by the Board of Managers in the Garden's recent experiment of co-operation with the public schools of the Bronx in their nature-study work, and the continuance and expansion of this work were authorized, to such extent as may be practicable with available funds.

The Latest Scientific Process in Agriculture

BY BURNET LANDRETH.

(Extract from Landreth's New Book on Gardening.)

It was as far back as 1860, at the Polytechnic College of Philadelphia, when the students were instructed that some day electric currents would be profitably used in agricultural field operations, in stimulating plant growth; and six years later I looked over the field experiments of Alderman Mechl, on his farm, a few miles out of London, where he had installed apparatus for the purpose of forcing field crops of cabbage, turnips, mangolds and carrots, by the application to the soil of direct electric currents. His experiment, by reason of a then undeveloped knowledge of the subject, did not produce any practical results; consequently he did not pursue the experiments over two Summers, his relinquishment of the scheme, possibly, to a great extent being due to a very wide newspaper ridicule. But time has proved that he was more far-seeing than his critics, his efforts in their general scope being in a truly scientific direction, as has been lately demonstrated as practical by the marked success at several experimental stations in Germany, Sweden and England.

Every explorer in northern latitudes, especially in Polar regions, has been impressed with a vigor of growth of all the native plants, their extraordinary rapid budding, their productiveness, their brilliant coloring and high perfumes, all of which effects scientists now attribute to the influences of electric currents passing to or from the atmosphere and earth. In Northern Sweden, Finland and other extreme northern countries where agriculture is pursued the harvests are always best after seasons of many auras, electric currents proving a most important factor in stimulating and sustaining plant life. Artificially produced electric currents have been proved by numerous experiments made principally in Germany, Sweden and England to be decidedly advantageous where tracts of a size equal to ten acres have been treated with electric air currents, the results being an increase of from 20 to 80 per cent. in the productive capacity of crops of oats, beans, carrots, potatoes and strawberries.

In 1855 Professor S. Lemstrom, of Helsingfors, first made experiments in illustration of his idea that electric currents favorably influenced the growth of plants, and he has since continued to experiment, until now he has arrived at what may be considered a practical application of the system.

The influences of electric air currents in forcing vegetables, according to his theory, are the production of ozone and nitric compounds, and in influencing an increased rapidity of sap movement at those times when the current is ascending. In other words, the augmentation of energy of circulation, the results being an increase in grain seeds of digestible, nitrogenous matter; an increase of sugar in sugar beets; an increase of sweetness in berries, as well as their earlier ripening.



FLOWERING ALMOND DOUBLE WHITE

Photo by J. F. Johnston

The manner of making an application of these electric currents is by the installation of an electric machine, driven by a small hot air or gasolene motor. A wire is run from the negative pole to a zinc plate sunk in damp earth, and a second wire from the positive pole to a movable and well-insulated wire netting, supported, one foot high, by legs, the netting placed directly over the surface of the ground of the crop to be treated. This netting may be many feet in length and breadth, according to the power of the electric machine, the operation being to pass air currents to or from in either direction between the netting and the earth. The result is ineffectual on a wet or cloudy day, and during very dry periods it is positively harmful. Some vegetables, as peas, carrots and cabbage, will not endure the electric treatment unless the soil is in damp condition.

The expense of installation for a field of ten acres is estimated by Professor Lemstrom at \$500 for the electric machine and motor and \$150 per annum for labor.

It would seem this system of forcing plants by electric air currents is especially applicable to under-glass culture, where, certainly, many of the difficulties in the open field would not prevail; as, for example, too much moisture, or too much heat, or the greater difficulty in operations covering acres in extent.

What will be the next scientific process?

Weigela Rosea.

Weigelas are beautiful Spring flowering shrubs bearing numerous flowers, while occasional ones continue to expand through the Summer. W. rosea is probably the most cultivated species, the flowers being funnel-shaped, pink or rose-colored.

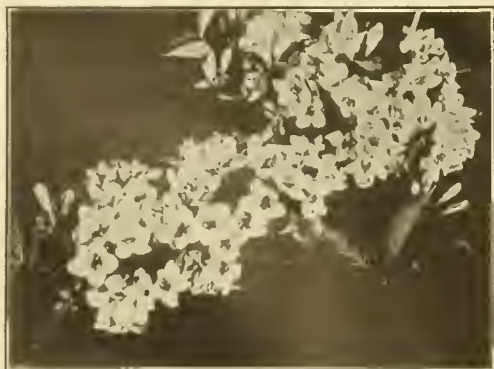
Flowering Almond

(Prunus Japonica or Amygdalus Nana).

Flowering almonds are very attractive during May, with their great profusion of dainty blossoms, which are double, and in colors usually rose, pink or white. These flowering shrubs prove useful subjects for enlivening shrubberies. The illustration represents a flowering branch of the white variety.

Glen Cove, L. I.

JOHN F. JOHNSTON.



SPRAY OF WEIGELA ROSEA

Photo by J. F. Johnston

A recent issue of the New York Press has a word about the wages of rose specialists. This is what is recorded:

"An uptown florist who advertised for a rose specialist a few days ago was bewailing his inability to find one. 'It is like advertising for good hotel help in the city when the Summer resort season opens,' he said. 'Everybody worth hiring has a job. The rose season in New York is brief, but it needs an expert to handle them while they last, if he is to supply a high-priced trade. I mean by that a business in which customers do not hesitate to pay \$1 each for fine roses. It is not every grower that can be depended upon to produce flowers radiant and rich in color, and with long, strong stems. When a florist finds a man like that he has a prize. Four thousand dollars a year is not at all a big salary for him, and for seven months of that time he has a sinecure. A man like that is paid not so much for what he does as for what he knows.' Now we know what a good man is worth for only knowing it all.

Fruit Culture Under Glass.

(Prize essay by Percy E. Hicks, read before the Monmouth County, N. J., Horticultural Society.)

Grapes.

HOUSES.—Houses most suitable for growing grapes are span-roofed houses running north and south, with ventilation both top and bottom. A lean-to house facing south is good for early grapes, as it is more sheltered. Houses are best built away from plant houses. If outside borders are needed the foundation should be built in arches about two feet wide and two feet between them.

BORDERS.—Different kinds of borders can be used—inside, outside, raised and sunk borders. Raised borders are preferable if the houses are on low ground, as they would drain better; but in the majority of cases an inside border about fifteen feet wide is best. For late grapes, it is best to have an inside and outside border, especially if the rods are intended to stay in for any length of time. A small outside border about six feet wide will be all that is necessary for quite a few years. Some means should be used to keep the roots from going astray and the roots of other trees coming in. I do not believe in large outside borders, for I think if you can keep the roots in a limited space you have a better chance of feeding and looking after them. For a sunk inside border the soil should be dug out about 3½ feet deep, the bottom should be cemented over and a proper drain made to take the water away. Put in about nine inches of drainage material; broken bricks and tiles will do. Good drainage is most important.

SOIL FOR BORDERS should be a good fibrous loam, a top spit from an old pasture. It can be cut and used right away, laying it grass downward. Put a layer of turf, then some rough bone and a little rough lime rubble; keep doing that until you get near the top. Then the soil should be chopped a little, and fine bone used. Each layer should be firmed as put on. It is not advisable to make the border too rich, as the vines will go away too rank at the start. When they do need feeding all that is necessary can be supplied from the top of the border. I think it is a good plan to make the border up a little, say, about six feet the first year, then add every year until it is filled in. I don't mean to say that this is necessary, as good results can be obtained by making the whole border at once. But with the other way it gives them new soil to work in when they are working well.

YOUNG VINES are raised from vine eyes taken from hard wood. The majority of private growers do not trouble to raise their own, but buy in canes about one or two years old for planting.

PLANTING.—Before planting, all the soil should be washed from the roots, spread the roots out well and cover with soil. Plant about three to four feet apart and about a foot from the wall. After planting, cut down to about eighteen inches from the bottom, so as to insure good strong rods from the start. When they start into growth the top shoot should be trained to the top of the house. In the Winter they should be taken down and covered over with straw to protect them from the frost and sun. In the Spring they should be uncovered and cut back to about a third of last year's growth. No hard and fast rule can be made as to how much should be cut off every year until they are established to the top of the house; it depends on the strength of the rod. But nothing is gained by bringing them up too quickly, especially if rods are intended to stay in for any length of time. If they reach the top of the house in four or five years they ought to be all right. The second year train the leading shoot to the top of the house the same as before; pinch and thin the side shoots out to about six inches apart, and tie down to the wires alternately on each side of the rod. Pinch so that they (the shoots) of each rod meet. The second year they can carry about two bunches of fruit, carrying a few more every year until the rod is at the top of the house. They should then be able to carry 12 or 14 bunches.

Details of Work for the Year.

PRUNING.—In the Winter, when the rod has had a good rest and before starting, the last season's side shoots should be cut back to one good eye. Cut with a sharp knife. It is well to put a little shellac over the cut, as this helps to keep it from bleeding.

CLEANING.—If there is any pest on the rods, bug or spider, all the loose bark should be scraped off, cleaning well around the eyes, taking care not to damage the eyes. Then wash with whale-oil soap, Gishurst Compound or some other insecticide. Go over them with wood alcohol. All loose soil must be cleaned off the border. If there are no roots near the top, an inch or two of soil could be taken off. Then thoroughly wash the house.

STARTING.—If early grapes are needed, the house should be started about the second week in December. The fruit should be ready to cut about the beginning of June. Before starting, prick the border lightly with a fork, taking care not to break the roots; give a sprinkling of crushed bone and wood ashes, and a top dressing of chopped loam and cow manure, about two parts of loam to one manure. Tie down the rods in some manner so as to stop the sap from rushing to the top of the rod at the start. Turn on heat and give the border a thorough soaking with water.

TEMPERATURE.—Start at a night temperature of forty-five degrees, raising five degrees on every dark day and ten degrees on light days with fire heat and

fifteen degrees with sun heat. Raise the temperature about five degrees every two weeks, so as to give a night temperature of sixty degrees when the buds are soft, sixty-five degrees when the shoots are growing, and seventy degrees when they are thinned; of course, raise fifteen degrees with sunheat in each instance, with plenty of air.

DISBUDDING, STOPPING AND TYING.—Take the strongest shoots and bring them down gradually to the wires. Don't be in any hurry in doing this, for if you bring them down at once they will probably snap out. As long as they do not touch the glass they will be all right. Leave enough to cover the house nicely, but do not crowd, and rub out those that are not wanted. Stop so that the shoots from each rod meet. If there are any strong shoots coming away and robbing the others, it is well to stop them about two eyes from the bunch, then let the lateral shoot come as far as you want it. If the foliage is thick at the time the grapes start to color, a little of it should be taken out so as to give them light and air. Don't take too much out at a time, or this will give them a check. Stop lateral shoots at first leaf.

FLOWERING.—When in flower syringing must be stopped so as to keep the house fairly dry. Dampen down the border and walk once a day, on bright days, about the middle of the day or when you have the most air on. The rods should have a gentle tap about the middle of the day, so as to distribute the pollen to set them. The Muscat family is rather shy to set, so it is advisable to go over them with a camel's hair brush, or to tap each individual bunch.

(To be Continued)

appear. The Blue Gum (*Eucalyptus globulus*), seen as a young plant, has leaves of quite a different form to those seen on flowering branches.

Another form of variation is due entirely to cultural conditions. I can give no better example than *Aralia Veitchii*, and its variety *gracillima*. As it is usually seen in slender, graceful plants for table decoration, it is due entirely to artificial conditions. If instead of being potted in light, peaty soil, a richer, loamy soil is used, and less heat, the plants will gradually increase in strength. I have found plants of moderate size take on the vigorous form of growth; and I have also seen plants from fifteen to twenty feet high which could hardly be identified with the slender pot plants usually seen; and I may add that when once they get into the coarser habit, they still retain it when grafted from tops or from the stem with one leaf and bud. When I first had *A. Veitchii* run out, I attributed it to *Aralia Guilfoylei*, instead of *Aralia reticulata* being used for grafting on, but though the latter is perhaps the best stock, I found the same results with this. *Aralia elegantissima*, and *Aralia leptophylla* may also be grown quite out of the light slender character.

There has been a good deal of controversy concerning *Asparagus plumosus nanus*. In one of the earliest batches of seedling plants that I handled I found some variations. Generally the seedlings under good culture form strong crowns, and each succeeding growth will be stronger and attain to a greater length; but some plants form more tufted crowns, and may be divided. These, if worked on (that is, kept for divisions), and potted in a light, peaty compost, or any ordinary soil that is not too rich, will retain the dwarf habit; and practically maintain the true character of *nanus*,



DIANTHUS FETTES MOUNT IN ROCK GARDEN, ROYAL BOTANIC GARDENS, EDINBURGH, SCOTLAND

Photo by W. H. Waite

Plant Variations.

The most remarkable instance of plant variation, or, rather, change of character, that has come under my notice, occurs with *Ficus repens*. Most readers will be familiar with this as a climbing or trailing plant, but there may be some who have not seen it with a stout stem and large, oval leaves. Some years ago I saw a fine specimen at Pendell Court. I could hardly believe it was the same plant, but on examination found both the slender small-leaved growths, and the strong erect shoots with large leaves on the same plant, or, rather, tree, and it is only on the strong erect growths that the figs are produced. In *Ficus radicans variegata* two distinct forms of growth occur in comparatively young plants, and it is worthy of note that either the form with the long, slender growths, or that with thicker stems and larger leaves, will keep to character when struck from cuttings; that is, for some time, of course; but they do run out eventually. Much the same thing occurs with the ivies. "Argus" attributes the change to the fact that it can no longer climb; and other writers suggest the same cause; yet, as a matter of fact, it is not until a strong stem has been made and the plant is of sufficient strength to become fertile (or produce seeds). It is only after this tree-like growth is made that the ivy flowers. It is, however, known that when this tree-like growth is grafted, or even from cuttings it may retain the character; but what I would convey is that the change in growth does not occur until the plant has arrived at maturity. And it is quite as natural for the ivy to change in character before flowering as it is for the *Poinsettia pulcherrima* to produce the scarlet leaves (or bracts) before the flowers

which is not applicable to most of the stock sold as such. I may add, that there is a great difference in regard to seeding. I have known the same plants to give a good crop of seed successively year after year, while others under similar conditions have failed as regularly. It is not always that when a plant flowers profusely that seed is produced. A slight irregularity in temperature, etc., may cause the whole of the flowers to drop off. I never could be quite sure of the cause, but I think a London fog would be most certain to cause failure if this came at the critical time.—Horticultural Advertiser.

Dianthus Fettes Mount.

When well grown, the hardy pinks are objects of great beauty. The accompanying illustration shows the effect of massing, which I mentioned in a previous note. This is a hybrid pink of remarkable quality. The flowers are of a pleasing pink, something like those of the Marquis carnation. Its floriferousness will be readily seen from the picture, which was not faked for the camera. Some of the hybrid pinks are difficult to keep in stock, owing to their blooming propensities—they usually flower themselves to death—but the subject of this note, while a bloomer par excellence, is also a good grower, making plenty of grass from which to propagate. It is also perfectly hardy, but I find it is best to propagate it annually, leaving the young plants in frames all Winter, and planting out as early as possible.

W. H. WAITE.



PLANTS FOR NAME.—C. Adams, Arkansas.—The name of the plant with the white flower is *Euphorbia marginata*. It would be of no use commercially. The other plant is evidently one of the sedums, but we would prefer to have it forwarded to us when in flower, so that we could identify it positively.

To Kill Poison Ivy.

(164) Is there anything that can be used to kill poison ivy? I have lots of it growing around the fences, and I cannot touch it with impunity. H. B.

—The best way to get rid of the poison ivy would be to go over the fence line carefully, and with a spade dig out every growing piece. A pair of gloves should be worn to prevent the hands from touching the leaves, though it should not be necessary to pull away the plants at all. Just dig out the roots, chop up the stems, and either burn the roots or leave them where the sun will kill them.

Sheep Manure for a Lawn.

(167) Is sheep manure a good fertilizer for a newly-seeded lawn? The ground is quite poor. Can the fertilizer be sown on top of the seed? N. F.

—Sheep manure makes a good fertilizer for the lawn, but it should have been worked into the soil before the grass seed was sown. The best thing to do now is to wait until the grass has got a good start, then mix the sheep manure with an equal part of good soil, thoroughly pulverize the whole, and spread it over the grass.

Books, Propagation of Shrubs, Etc.

(171) What literature can I get, written by a good practical man, that will inform me how to propagate and graft conifers, also deciduous stock; in fact, general all around nursery stock? What book can I get that will help me to familiarize myself with the different varieties of trees? How can I tell abies from pines? When is the best time to transplant *Larix europæus*? I am told it is hard to transplant.

Can deciduous shrubs be propagated in Summer time, or must the work be done in Winter? Should it be done in frames or in houses?

Can conifers be propagated in Summer? Do they require houses?

How should *Azalea amoenia* be propagated and handled the first year? X. Y. Z.

—“Propagation of Plants,” by Fuller, is a very good work; so is the Nursery Book, by Bailey.

“Our Native Trees,” by Keller, and “Familiar Trees and their Leaves,” by Matthews, are good.

The botanical distinctions are too intricate to describe here, but if you have large trees before you, you will find the cones of the abies are erect on the branches, while those of the picea are drooping.

Early Spring or early Autumn. Either in Summer, in greenhouse, from young wood, or in Spring, out doors, from one-year shoots.

Yes, the books above named on propagation will inform you fully.

By cuttings made in early Winter to be rooted in greenhouse. J. M.

Fertilizer for Asters.

(172) What do you consider the best fertilizer for asters? We learn that stable manure is injurious. In order to enrich the soil what had we better use? A. B.

New Jersey.

—Asters like a good rich soil, and we would prefer well decomposed stable or barnyard manure to any other fertilizer.

Water Temperature for Carnations.

(173) Would water from a well, at a temperature of about 48 degrees, be too cold for carnations? J. W. C.

Pennsylvania.

—Water at a temperature of 48 degrees will not injure carnations, either used as a spray or for watering the roots.

Caterpillars on Asparagus and Ferns.

(174) What will destroy caterpillars on *Asparagus plumosus* and Boston fern? The insects eat the young shoots of the plants. C. H. K. Texas.

—If the caterpillars are so numerous that they cannot be picked off by hand and destroyed, we would recommend the use of Hammond's Slug Shot. Dust this over the foliage with a powder distributor. One or two applications will, no doubt, clean out the caterpillars.

Thompson's Manure.

(175) Please give me the address of the manufacturers of Thompson's manure, recommended for chrysanthemums in the article by P. Griffiths in a recent issue. I have made inquiries here, but our local dealers don't know it. E. H.

Maryland.

—The manufacturer of Thompson's vine manure is Thompson, of Clovenfords, Scotland. This fertilizer can be obtained at any of the seed stores advertising in *The Florists' Exchange*. N. B.

Heating.

(176) Please let me know how many runs of 3½-inch pipe will be required to heat two houses 18 x 100, one 12 x 100, and one 10 x 100 feet, glass partitions between houses; also two feet on south sides. I have three Hitchings boilers, one No. 15, and two No. 16. H. B. McK.

—Assuming that you mean 3½-inch pipe in this case to be regular standard 4-inch outside diameter cast-iron pipe, would advise as follows: Rose house, eight runs; palm house, nine runs; carnation house, six runs; fern house, six runs. This will give you the required temperature for each house. We have not included the amount of radiation required for the office, for you do not give the dimensions of same. The maximum capacity of the three boilers you now have is 2,600 feet of 4-inch pipe, or its equivalent. We would advise, in your case, having a boiler capacity of 3,500 feet of 4-inch pipe. You will have to be very careful in laying out the mains for this work, being sure to have them of ample size to carry the houses properly. We would advise a separate flow and return main running through the palm house below grade, to properly take care of the rose and carnation houses. The various circulations should be properly valved, so that each house could be controlled. This job really requires the attention of some experienced greenhouse heating engineer. We advise this even if it is only a matter of consultation, for it will save possibly much trouble to you, if you propose to do the work yourself. U. G. SCOLLAY.

(1) How many hot water pipes would be needed to heat a house 100 feet long and 20 feet wide, 12 feet 6 inches to ridge, three-quarter span, one end for American Beauty, the other half for Bride and Bridesmaid roses? (2) How many pipes would be needed for a carnation house 100 feet long, 18 feet wide, even span, 11 feet to ridge? (3) How many pipes would be needed for a violet and mignonette house 100 feet long, 10 feet wide, 8 feet 6 inches to ridge? (4) How many pipes would be needed to heat a house 10 feet long, 10 feet to ridge, 14 feet wide, to maintain a temperature of 56 degrees in zero weather.

SUBSCRIBER.

—Answering your inquiry according to numbers of questions: (1) Presuming you will place a partition in the middle of house I would suggest the American Beauty section to have nine lines of 4-inch pipe, or 12-inch. Bride section, eight 4-inch pipes, or twelve 2-inch. (2) Providing this house has no glass on the sides, seven 4-inch, or eleven 2-inch pipes will do. (3) This house is much higher than is usual for this purpose; consequently, you have more glass to heat. I would recommend three 4-inch pipes, or five 2-inch. (4) In this house, to maintain 56 degrees, in zero weather, I would advise six 4-inch, or nine 2-inch pipes. U. G. SCOLLAY.

Growth of Tree Trunk.

(177) How much does a tree trunk grow? If the head is started, say, five feet from the ground, how much higher or longer will the trunk be in twenty years? INQUIRER.

—Tree trunks do not elongate. If a branch starts at, say, five feet from the ground, it is always at the same height, no higher nor lower. This question comes up now and again; but scientists and observers both agree that there is no elongation of the trunks of trees. J. M.

Chrysanthemums for Thanksgiving.

(178) Kindly give us full directions for making sure of a good supply of chrysanthemums at Thanksgiving. We have Ivory, Major Bonaffon, Wm. H. Chadwick, Mlle. Marie Liger and Col. Appleton. They are now growing in two-inch pots. When is the proper time to bench them? What buds shall we take, and when is the time to commence saving them? We also have cuttings now rooting in sand; would the late cuttings come later? N. & T. South Dakota.

—While the plants now growing in two-inch pots may by proper handling be made to produce good flowers for Thanksgiving, I would prefer to take the cuttings that are now rooting for this late flowering period. The kinds mentioned, namely Ivory, Major Bonaffon, W. H. Chadwick, Mlle. Marie Liger and Col. Appleton, are not all suitable for growing for late flowers, as it is difficult to hold Ivory, Liger and Appleton after November 1 to 10. A good selection for late flowering would be about as follows: White—Timothy Eaton, W. H. Chadwick and Christmas Eve. Pink—Superba, W. S. Allen and the old Maud Dean. Yellow—Major Bonaffon, Yellow Eaton, W. H. Lincoln and H. W. Rieman. These are old standard kinds, and can be bought for a song from the men who handle that line of goods.

A few notes on culture are here given: Cuttings may be rooted as late as the end of July for late flowering, the only trouble with late propagation being the fact that it is not so easy to root chrysanthemums after the hot weather sets in. A very cool shady place with lots of moisture is essential, the cuttings requiring copious spraying to keep them from wilting. When the young plants are in shape, they may be benched and should then be encouraged to continue in growth as long as possible. For this reason they should be planted in a house apart from the early and midseason varieties, so that during September and October they may be kept very cool, with lots of air on both night and day. The terminal bud only should be used, because it will show much later and also because it will develop just as well in a very cool temperature, where the crown bud will not. The aim should be to hold the flowers just as long as possible in the undeveloped stage by a little shade and a low temperature, so that they need not be kept so long after they are fully open. If the flowers are fully open before the middle of November, it would probably be best to cut them and store them in a cold cellar with the stems in a barrel of water. They may be kept for two weeks, or longer, in this manner easily enough. N. & T. know their own market best, of course; but experience has taught us that here in the East there is little call for late chrysanthemums, every one seeming thankful if they are out of the market before Thanksgiving.

CHARLES H. TOTTY.

FISHKILL-ON-HUDSON, N. Y.—Hammond's Paint and Slug Shot factory, situated on the Long Dock at Fishkill Landing, N. Y., is now surrounded by a park made by the Ramsdell estate. The factory itself has had an additional building erected; new sheds for storage are going up; and the grinding department is being refitted with larger mills. The area covered by this plant is nearly one acre. Viewed from the New York Central trains it looks much smaller than the works really are, as the grade makes the street entrance at the second floor. Last January Mr. Hammond sent out to his patrons over 2,000 daries, and in each placed an invitation to come to Fishkill and go to the top of the Incline Railway, 1,500 feet above the Hudson River.

CANADIAN NEWS

OTTAWA.—We are having very cold weather, therefore a backward Spring; so much so that plants are moving very slowly, pansies not an exception. The stock of bedding plants is extensive, the always popular geranium being grown in larger quantities than ever before. The demand for veranda boxes is increasing, and hanging baskets, “to the florists' annoyance,” are still in lively demand. The cut flower trade has been fairly good; carnations and roses are plentiful.

Carnations are all planted, i. e., those in the field, and have had plenty of moisture and cool weather, which has given them a good start. C. Scrim is early at planting roses. He has one house planted, and is going right along with the work.

It was a great pleasure, the other day, to hear J. Graham's voice over the telephone; he has had a very tough time, and, though out, is yet anything but strong.

The Ottawa Horticultural Society held its first monthly show on Tuesday; there was a very fine display of tulips and narcissus. An address by President Black and a paper on “Arrangement of Color in Bedding Plants” were both useful and entertaining.

Our Canadian florist paper seems to be quite a thing of the past. Whatever its merits were, we miss it. It is to be hoped that in the near future we shall make a third attempt and succeed. As the convention season approaches we shall miss it as a medium of convention gossip, for to get the greatest enthusiasm aroused it is necessary to keep the matter before the public so that they may the more surely persuade themselves that they have to be in attendance. And in the worry and work of Spring business it is a sort of stimulus to look forward to the pleasant rest in Montreal in August. The arrangement of the local committee to have two days devoted to straight business and two to sight-seeing, is good. Montreal is a large city, with large suburbs, and there are so many points of interest to the florists and visitors which it would be impossible to see in one day. To attempt it would possibly interfere with the attendance at the sessions, and as, in Canada, the distances between our large cities are great, this keeps the most of us from making many visits to our fellow craftsmen, so that it is well to make the most of our time when we do move.

LONDON, ONT.—There is not much life in the cut flower trade at present, but there are signs of a revival during June. Stock of all kinds is plentiful, and will continue to be so for some time. Carnations are keeping up their quality splendidly, the moderately dull and cool weather just suiting them. Outside stock is growing very slowly indeed; in fact, all the very early sown plants, both flowers and vegetables, were badly cut by frost on the nights of May 19 and 20. Early strawberries are killed, as also are early grapes; but the orchard fruit seems to have escaped. On account of the cold weather very little indeed is being done in the bedding line, but orders are plentiful and stock is good. The last week in May and the first week of June will see this work in full swing. As was expected, many more bedding plants will be used this year than usual, everyone wishing to have their grounds looking their best for a big reunion to be held in August. Palms, araucarias, etc., are now arriving; the plants have stood the journey well, and are generally in excellent condition. Young chrysanthemum plants are now demanding a good deal of attention. At Gammage & Son's, the stock intended for exhibition blooms is looking fine; this is especially noticeable in many of the new varieties. FRED BENNETT.

ST. THOMAS, ONT.—Last week some vandals tore up many of the tulip plants in front of Ralph Crocker's greenhouses, trampling down the balance. The arrest of the guilty parties is looked for. Reports of flower thieves in all parts of the city have been quite numerous of late. Criminals of this class are so mean that they even go so far as to steal flowers from the graves in the cemetery.

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of the very finest kinds, including Cheltoni, Guy Hamilton, W. Duckham, Donald McLeod, and many others. Why not write me? I can save you money on Chrysanthemums.

CHARLES H. TOTTY, Madison, N. J.

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For \$5.00 I will send you 100 assorted **CHRYSANTHEMUMS**

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Grown for our own planting. The stock was all early propagated, is in 2 in. and 2 1/2 in. pots, and in best of condition. We offer at price of rooted cuttings:

700 Harlowarden.....	\$4.00
100 Mrs. Patten.....	4.00
400 Neptune, Dorner's New Yellow.....	5.00
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Make us an offer on the lot.

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American Beauty, globular, dark pink; Dr. Enguehard, \$4.00 per 100. Merry Monarch, white and yellow; Willowbrook, Polly Rose, Pacific, R. Halliday, Ivory, Robinson, Nellie Pockett, Bonaffon, Maud Dean, Merry Christmas, \$1.50 per 100; \$12.50 per 1000. Cash with order, please.

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50,000

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Kaiserin, La Franco, Perle, Hermosa, Clothilde Souper, Cochet (pink and white), Ivory, 3 in. pote, \$4.50 per 100; \$40.00 per 1000.

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3-in. pots, \$5.00 per 100; 2 1/2-in., \$3.50 per 100.

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\$2.50 per 100; \$20.00 per 1000

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CRUSADER.....	5.00	45.00	MORNING GLORY.....	1.50	12.50
INDIANAPOLIS.....	5.00	45.00	HIGHBOTHAM.....	1.00	9.00
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500 Mrs. Lawson.....	Per 100
900 Encl antrees.....	\$2.50
200 White Lawson.....	3.50
	5.00

R. D. KIMBALL, Waban, Mass.
Mention the Florists' Exchange when writing.

J. D. THOMPSON
CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty
Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists

RICHMOND, ILL.
Mention the Florists' Exchange when writing.

CARNATIONS

ROOTED CUTTINGS

Last Offer

2500 Enchantress.....	1000	\$30.00
2500 Lawson.....	15.00	15.00
1000 Prosperity.....	15.00	15.00
500 Bradt.....	15.00	15.00

GRAFTED BRIDE AND BRIDESMAID ROSES

\$10.00 per 100; \$100.00 per 1000.

Review of the Market

NEW YORK.—We see no improvement in the cut flower business yet, though in some quarters supplies have diminished and clearances have been easier accomplished, though no advance in prices has resulted. The near approach of Memorial Day has not, as yet, had any effect toward stiffening the market, and with the unusually heavy supply of outdoor flowers available, greenhouse-grown stock will be somewhat at a disadvantage, and advanced rates are hardly looked for.

So far as roses go, the variety Killarney is holding up its price better than any other kind, and as there is quite a lot of this rose being planted, we expect to see it in much heavier quantities next season. Carnations have not had to be cleared out at such low figures as obtained a week ago; that is, it has not been necessary to offer large lots at \$3 and \$4 per 1,000, in order to get rid of them; and while the prices have not changed materially, where small lots are concerned, the average returns will, no doubt, make a better showing.

The supply of lilac is shortening, but this is more than made up by other outside flowers. Iris, both blue and yellow, are plentiful, and the supply of peonies is growing larger day by day. Gladiolus are quite plentiful; and there is an abundant stock of lilies. The supply of good cornflowers is somewhat limited. Some of the sweet peas have advanced in value, more particularly the lavender-colored variety. Gardenias, at \$3 per dozen, have sold fairly well, and the demand for cattleyas has been slightly better. Lily of the valley has not moved fast enough, and prices are easier. Smilax is going very poorly, and prices have a downward tendency. The same remark applies to asparagus in bunches; we see little of this material in long strings nowadays.

BOSTON.—Quite a change has taken place in the wholesale trade from a week ago. Material is becoming scarce, or is being held back prior to the days immediately preceding the holiday. Roses have advanced in price, especially the shorter stemmed sorts which are more in demand for this occasion than any other during the year. Roses, which sold at \$1 per \$100, or even less, a week ago, readily bring twice that amount to-day. American Beauty have also stiffened somewhat, although \$3 per dozen is about the average price for long-stemmed flowers. All colored sorts seem to have the preference. Carnations have advanced, the prices ranging now being \$2, \$2.50 and \$3 per 100, or about double last week's quotations. Lilies are selling better than they were, although \$8 per 100 is about the highest price. Sweet peas are rather scarce and of inferior quality. Gladiolus are now plentiful at \$1.50 per dozen for the best grades. Candytuft of fine quality is coming in at 50c. per bunch. Lilies sell well at 50c. per bunch. Pond lilies have made their appearance, but the demand for them is not heavy. J. W. D.

CHICAGO. Trade during the past week has undergone no material change since last report. The supply of stock, in some lines, has shortened up to a great extent, while in others there has been an increase, but not sufficient to greatly affect the market. The local demand continues very light, and from appearances will remain so until after a settlement of the strike. Some of the retailers incline to the belief that trade will not divert itself into natural channels until after the Summer vacation season is ended.

American Beauty roses have shortened up in supply considerably. Medium grade stock is next to impossible to obtain in any quantities. Prices have remained firm; quotations for long-stem flowers are from \$4 to \$5 per 100; medium, \$1.50 to \$2.50 per dozen; other grades, \$2 to \$3 per 100. These quotations will not hold good for Decoration Day, when values will be somewhat higher. Bride and Bridesmaid are in sufficient quantities to meet all demands, and these have remained at the same prices as last week. Liberty has increased in quantity, and the quality is really very good; prices on these are from \$4 to \$15 per 100, the latter for extra fancy.

Carnations are coming in very freely, and while no great over-supply is noticeable, at the end of the day's business some stock is always to be found left over. A good call from out-of-town buyers helps to stimulate prices; these are softer than during the past week, ranging from \$1 to \$3 per 100, with off-grade stock going lower.

Peonies, while not moving as freely as in former years, find a fairly good demand; prices on these range from 35c. to \$1 per bunch of 12, but very few selling at the latter figure. Lilies are not so plentiful as they were; in fact, they can be said to be becoming scarce, and prices have stiffened somewhat.

Sweet peas are coming in quite freely, and values have dropped to from 40c. to \$1 per 100. Lilac is not so plentiful as last week, the home supply being nearly exhausted. R. J.

INDIANAPOLIS.—May so far has proved to be a very satisfactory month for the florists. Funeral work during the past week has been plentiful. Quite a little decorating is being done, and counter trade has been unusually heavy. The growers all seem well satisfied with the amount of planting on hand. Bedding plants are not any too plentiful this year, and a firm price is being asked for them. Window boxes are being sold in unusual numbers, many customers preferring them to flower beds or vases.

The supply of cut flower stock is equal to the demand in most lines. Select Bridesmaid, Bride and Golden Gate wholesale at \$6 to \$7 per 100. Mme. Abel Chatenay, Souvenir du President Carnot and La France are of unusual quality, and sell at \$8 to \$9 per 100 for select stock. American Beauty are below the standard, the best 36-inch stems bring \$25; 20 to 24-inch, \$150; and shorts \$5 per 100. Carnations are not so plentiful as they were, and a shortage is anticipated by Decoration Day. Fancy grades bring \$2.50; medium grades, \$1.50 to \$2 per 100. Sweet peas are plentiful, and sell well at 75c. to \$1 per 100; 25c. per bunch of fifteen is the customary retail price. Lavender and white candytuft are a great aid to the maker-up, at \$1 per 100 sprays. The local crop of peonies is being cut. A large number of them are grown here, so the supply for Memorial Day will be practically inexhaustible; \$4 to \$5 per 100 is quoted on the better grades. Yellow and purple iris are being cut, but the sale is limited.

Tomlinson Hall Market reports a very satisfactory business, both wholesale and retail. The stands there are filled to overflowing with bedding plants, and the "basket brigade," as the customers are termed, is a large one. I. B.

ST. LOUIS.—The past week our wholesalers were still struggling with the disposal of the large amount of stock coming in, and job-lot prices had to be put in force in order to unload. Not much extra business for Decoration Day is expected. This week, so far, trade seems somewhat better. This, we hope, will put a stop to the cheap prices which prevail among the downtown retailers. Report has it that a large number of weddings will take place early next month; these, with school commencements, should make June a busy month for the local craftsmen.

The roses coming in are of good quality in all varieties, especially Souvenir du President Carnot and Bridesmaid. The top price on these is \$5 per 100. American Beauty bring \$3 per dozen for extra long.

Carnations in all varieties are plentiful, white selling best at from 50c. to \$2 per 100; \$5 for fancy in 1,000 lots, and \$2.50 for common. White and pink peonies average \$2 per 100. Cape jasmine brings 75c. per 100 for the best. Sweet peas, at 35c. and 50c., sell fairly well. Enough green goods are in the market for all demands, at the usual prices. ST. PATRICK.

CINCINNATI.—Business is looking up and prices are advancing a little. American Beauty are in brisk demand, and \$3 to \$4 per dozen is now the price for the best. Shorter stem stock averages about \$1 per foot per dozen. Carnations are moving fairly well; so are tea roses. Smilax is still scarce in this market, but other green goods are plentiful. Peonies are making their appearance, and sell at 3c. to 4c., but there is no rapid demand for them. Martin Reukauf was in town recently on his way West.

W. H. Partridge has the decorations for the Commercial Club dinner. Buckeye and oak foliage will be used in some of the decorations, while magnolia blossoms will be employed in others. June weddings and commencements are now calling for certain lines of flowers—sweet peas, American Beauty roses, lily of the valley and stocks. I hope we shall have enough to fill the orders. E. G. GILLET.

WASHINGTON, D. C.—Business has been fairly good this week, the commencement season having opened, which will be the principal standby for the next few weeks. American Beauty are still coming in of a fairly good quality, selling at from \$3 to \$6 per dozen. Kaiserin Augusta Victoria, Souvenir du President Carnot, Ivory, Golden Gate, Bride and Bridesmaid, Meteor and Liberty bring from \$1 to \$1.50 per dozen. Carnations are showing the effects of the weather and are small; any of the choicer sorts can be had for 35c. to 75c. per dozen. Sweet peas sell at 15c. to 35c. per bunch; gladiolus, 75c. to \$1; peonies, \$1 to \$2 per dozen; galliardias, 25c. and Harrisli lilies, \$1.25 per dozen flowers.

The bowling team will hold its weekly meeting at the Rathskeller on Wednesday night, which will be the commencement of the training season for the convention prizes, a number of which the team hopes to capture. M. C.

CLEVELAND, O.—For the last two weeks the weather has been so unpropitious that greenhouse flowers have gone up a notch. Roses are selling at from \$8 to \$10.50; carnations, \$1.50 to \$2.50 per 100. Sweet peas are cheap and plentiful. There is a big demand for all sorts of plants this year. O. G.

NEWPORT, R. I.—Spring at last has come, and we are enjoying some delightful warm, growing days. It certainly looks now like a good season here. The Summer people are opening their houses, and already the Casino is going. Both seedsmen and florists are very busy with orders for Decoration Day. F. W.

BUSINESS DIFFICULTIES.

BUFFALO, N. Y.—The Courier of May 17 contains the following item: "Papers were filed yesterday with the County Clerk in the supplementary proceedings instituted by William F. Kasting against Joseph H. Rebstock, a Buffalo florist. On March 11 last Kasting secured a judgment against Rebstock for \$1,698, which was returned unsatisfied. Rebstock stated in the proceedings that he lives at No. 521 Lafayette avenue and works for the J. H. Rebstock Company. He also enumerated a number of small and large accounts which aggregated a considerable amount of money due him for flowers by prominent Buffalo people. The papers are part of the proceedings to have a receiver appointed for Rebstock's property."

CHANGES IN BUSINESS.

(Items for this column are respectfully solicited from readers.)

GARDNER, MASS.—Charles L. Pierce will again enter the greenhouse business here.

GRAND RAPIDS, MICH.—Chadwick has opened a flower store in Monroe street.

ASBURY PARK, N. J.—M. H. Kruschka, of Elberon, N. J., will open a branch store here, on West Asbury avenue.

IERKIMER, N. Y.—Florist James Barclay, who recently purchased the Rhode Island greenhouses at Pawtucket, R. I., and moved to that city, has sold his greenhouse in this village to H. A. Maxtner, of Williamsport, Pa., who took possession Monday, May 15. A. P. Barclay, who has had charge of the greenhouse here, will join his brother at Pawtucket.

FIRMS WHO ARE BUILDING

WILMINGTON, DEL.—W. H. Vance is building a new greenhouse, 150 x 20 feet.

RHINEBECK, N. Y.—Grove Smith is erecting a violet house, 24 x 150 feet.

SILVERDALE, PA.—William Allaback is making an addition to his greenhouse plant.

PIERCETON, IND.—E. A. Knoll is doubling his present greenhouse capacity, and installing a 100-barrel steel supply water tank.

MISHAWAKA, IND.—C. Powell has been making improvements on his plant, and will soon begin the erection of a new greenhouse for carnations.

BALTIMORE, MD.—Halliday Bros. have obtained a permit to construct a greenhouse at North avenue and Pulaski street, Fred Bahr will be the builder.

COMING EXHIBITIONS.

RED BANK, N. J.—The Monmouth County Horticultural Society will hold its eighth annual exhibition in Town Hall November 1 and 2 next. The premium list has been issued. Copies can be obtained from Secretary H. A. Kettel, Fairhaven, N. J.

New York.

The Week's News.

Memorial Day, which comes on Tuesday next, will see no dearth of outdoor flowers, much to the advantage of suburban florists, who generally find that day one of, if not the busiest of the year. In this vicinity there will be an abundance of such stock as weigelas, viburnums, iris, peonies, spiraea, deutzia, etc., all of which will no doubt attract seriously the sales of roses and carnations, of which there is at present a very ample supply.

The firm of John A. Scollay, Brooklyn, are at present engaged on a contract for the city of New York, installing steam boilers having an aggregate capacity of 80,000 square feet of direct steam radiation. They are also doing extensive work in other parts of the city buildings.

The Horticultural Society of New York will hold an exhibition in the Museum Building, Botanical Garden, Bronx Park, on June 14 and 15. Prizes are offered for roses, cut flowers of trees and shrubs, peonies, iris, perennials, etc., and separate classes are provided for the professional and private grower. An exhibition of Fall fruits and flowers will be held in connection with the meeting October 11 and 12.

Notwithstanding the enormous stock of Nephrolepis Scottii, in plants running from 4-inch to large specimens in

tubs, which the introducer, John Scott, had on hand last Fall, so great has been the demand for this popular fern that he now has only stock in small sizes to offer. Not a retailer handling it but admits that Scottii possesses every point claimed for it by the introducer.

Ralph M. Ward & Co., bulb merchants, have a whole floor at their new quarters, 12 West Broadway, and are much more centrally located than when at 17 Battery place. This firm is fast building up a big business in the importing and distributing of bulbs of all kinds, being ably assisted by W. A. Prosser, who represents them on the road.

The Board of Health has forbidden the use of any flower vase or other receptacle that holds water in Greenwood Cemetery. This action has been taken on the ground that devices containing water form a breeding place for mosquitoes.

Over at Cypress Hills Cemetery, the florists, S. H. Powell, M. C. Hall and Louis Neukert, are very busy catching up with their work, which has been much delayed on account of the cool weather this month.

A. L. Miller, Jamaica avenue, Brooklyn, is developing extensive nurseries at both his home place and his Jamaica property. Standard weigelas, standard forsythias and standard deutzias are among his specialties, of which he carries a choice variety. He has also a rare strain of pansies of his own saving and selecting, and has marketed over 40,000 so far this season. Trepel & Co. is the name of a new retail firm located at Broadway and Willoughby avenue, Brooklyn. They have a nice corner store, with extensive show windows, and, as the neighborhood is a busy one, they should do a thriving business.

The greenhouses of W. L. Jones Nutley, N. J., were broken into last Sunday night, and palms and other decorative plants to the value of \$200 stolen. No trace of the thieves has been discovered as yet.

J. M. Keller, wholesale grower of Bay Ridge, Brooklyn, will retire from business on June 1, and will take a trip to Europe. Mr. Keller has turned his business over to his son-in-law Max Jordan, and to his foreman, J. Appel, who will continue it under the firm name of the J. M. Keller Company.

A very pretty sentiment was woven into the last rites over the remains of the late Kirke La Shelle, author and impresario, whose funeral occurred a few days ago at Bellport, L. I., the country home of the deceased. On the estate were three apple trees, which had been specially cared for by Mr. La Shelle, and with him the trees were great favorites. Indeed, the trees were in full blossom at the time of his death and Mrs. La Shelle had the flowers gathered and woven into a hugeasket cover. H. Hoffmeier, of Broadway and Eighty-third street, had charge of the floral work.

Daniel B. Long, Buffalo, was in the city this week. He reports a very satisfactory business along his varied lines of trade activity.

J. F. Sullivan, Detroit, Mich., was also a visitor.

The New York Bowling Club will roll at Thum's Alleys, Broadway and Thirtieth street, every Friday evening until further notice.

PAINESVILLE, O.—C. F. Lewis, lately an employee of Smith & Fetters, florists, of Cleveland, has taken charge of Hagenburger's store on North St. Clair street. Frank Riley, formerly in charge, has resigned.

Advertising is to business what good blood is to the human body. It is the life and strength of every successful institution.

GET OUR BOOKLET

THIS MAILED FREE AND TELLS HOW TO KILL

ALL APHIS

IN A HOUSE 100 X 25 FOR 10 CENTS

H. A. STOOHOFF CO.

118 West St., New York City



CLASSIFIED ADVERTISEMENTS

Cash with Order

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), ad sold, without display. Display advertisements in these columns 15 cents per line; count 14 lines to the inch.

No advertisement taken for less than 50 cents (35 words), except Situations Wanted.

[If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.]

STOCK FOR SALE

ASTERS—Queen of the Market, from 2 1/2-in. pots, red, white, blue and pink, nice plants; having more than we have room for, we will let them go for \$1.25 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

ASTERS—Sample's Queen of the Market and Comet, 5 colors, mixed, \$2.50 per 1000. Sample's separate colors, white, pink, rose, purple and lavender, \$3.00 per 1000. All field-grown, ready to plant. Cash with order. A. & C. Koshach, Pemberton, N. J.

CRATONS, fine plants, wide or narrow leaved, \$3, \$5, \$10 per 100. 200 English Ivy, 3 to 6 ft., cheap. Wanted Bignonia Venusta. F. C. Belden Co., West Palm Beach, Fla.

DRACAENA INDIVISA, out of 7-in. pots, \$40.00 per 100; out of 6-in. pots, \$30.00 per 100; out of 5-in. pots, \$20.00 per 100. George Walwright, 627 Princeton Ave., Trenton, N. J.

FUNKIAS.—Variegated day lily, strong pipe, \$4.50 per 100; \$40 per 1,000; clumps from 8 to 12 pipes, \$25 per 100. Cash. Chas. Hornacker, Box 31, Springfield, N. J.

PELAGONIUMS—Something new; something naty; seedling varieties never before offered for sale; standard varieties; the largest and best collection in America. Descriptive price list on application. J. Gammas & Sons, London, Canada.

ROSES, good clean stock, 3-inch, 5,000 Brides, 5,000 Bridemaid, 1,200 Kaiserin. Write for prices. F. & H. Mergenthaler, E. Washington Lane, Germantown, Phila., Pa.

ROSE PLANTS—Write for prices on hybrid perpetuals, hybrid teas, Climbers, Ramblers, etc. C. M. Niuffer, Springfield, Ohio.

VEGETABLE PLANTS—Transplanted, greenhouse grown, now ready for field. Tomatoes, Matchless, Stone, \$3.00 per 1000. Celery, White Plume, Golden Self Blanching, \$4.00 per 1000. Mangoes, \$4.00 per 1000. D. W. Davis, Zion's Grove, Pa.

VERBENAS—Vaughan's best mixture, 2 1/2-in. pots, \$2 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

STOCK WANTED

WANTED—ALL KINDS OF SUMMER FLOWERS, SUCH AS PAEONIES, ASTERS, DAHLIAS, GLADIOLUS, SWEET PEAS, STOCK, ETC. WE WISH TO RECEIVE SHIPMENTS ON CONSIGNMENT, AND CAN HANDLE GOOD STOCK TO ADVANTAGE. SETTLEMENTS WEEKLY. A. L. YOUNG & CO., 54 WEST 28TH ST., NEW YORK.

SITUATIONS WANTED

SITUATION WANTED by a good rose grower, for a section. Address U. D., care Florists' Exchange.

SITUATION wanted by first-class grower of roses, carnations, chrysanthemums, and general stock; roses a specialty; No. 1 references. Address W. C., care Florists' Exchange.

SITUATION wanted by florist, 31, German, 18 years' experience; honest, sober and reliable; willing worker for employer's interest. Please state wages. Gus, 158 Orange Road, Moulton, N. J.

SITUATION wanted by good all around grower; American, married, 35 years old. Can prove himself competent and reliable. Good references. Address W. F., care Florists' Exchange.

YOUNG MAN would like to secure position at outside work; private or commercial; four years' experience, three on present place; desires change; state wages. Address W. A., care Florists' Exchange.

HELP WANTED

WANTED—FIRST-CLASS GROWER OF ROSES, CARNATIONS, VIOLETS, ETC. W. C. GOODRICH, WATERVILLE, N. Y.

WANTED—A sober, industrious, all around man on a commercial place of 7,000 sq. ft. of glass. Steady place for the right man. G. E. Felch, Ayer, Mass.

WANTED—At once, a good fern grower; give references, experience and wages expected; steady position to the right man. Address W. B., care Florists' Exchange.

HELP WANTED

WANTED—At once, a good man for pot plants; must be a good potter. State wages. Herman Scholze, New Durhsm, N. J.

AN EXPERIENCED section man wanted in rose house, at once. Apply to Edgar C. Hopping, Florham Park, near Madison, N. J.

WANTED—June 1, sober, married man, for general greenhouse work; steady position for a hustler. Joseph Wood, Spring Valley, N. Y.

WANTED—Catalogue man who is familiar with the "get up" of a seed, plant and bulb catalogue. Livingston Seed Co., Columbus, Ohio.

WANTED—Working foreman, 15,000 feet glass, where cut flowers, bedding plants and general greenhouse stock is grown. S. S. Peckham, New Bedford, Mass.

WANTED—Florist; one who can invest \$500 to \$1,000; take full charge of about 10,000 feet of glass; mainly carnations. Write Stafford Floral Co., Sitsford Springs, Conn.

WANTED—Florist to run place on shares, or would rent; well stocked with carnations; 12,000 ft. glass. Chester County, Pa. Address W. E., care Florists' Exchange.

WANTED—By June 1, a first-class grower of roses and carnations; must be sober, reliable, and able to grow AI stock. Wages, \$65 per month. Place permanent. Address U. C., care Florists' Exchange.

WANTED—A working foreman; roses, carnations and general stock. State wages expected, and give references. Also an assistant who worked successfully on roses. John Beck & Son, Bridgeport, Conn.

WANTED—A man for a small commercial place; one who understands growing carnations and general greenhouse plants; steady work the year round; single man preferred. Address Box 55, Port Jervis, N. Y.

HELP WANTED—At once, good, sober AI grower and propagator of roses, carnations, and general stock and bedding plants. Good wages; permanent situation to right man. State wages and references, etc. Address W. D., care The Florists' Exchange.

WANTED—At my branch establishment, Fort Hamilton Ave., a married man as foreman; a good grower of roses, carnations, and general stock; only a steady and experienced man need apply. Give references, and state wages expected. Address R. Shannon & Son, 341-9 Greene Ave., Brooklyn, N. Y.

WANTED—A competent bookkeeper and office man familiar with the trade and plant business; good opportunity and permanent place for a man not afraid of work, and who wishes to advance. References required. Also a nurseryman of good habits; young, energetic man preferred. Fancher Creek Nurseries, Inc., Fresno, Cal.

BUSINESS OPPORTUNITIES

FOR RENT—SMALL PLACE, ABOUT 4,000 FT. OF GLASS. ADDRESS A. AKERS & CO., JOHNSTOWN, PA.

TO RENT—In Greater New York, 25,000 feet of glass, 3 acres of ground, dwelling house and barn. Address P. M., care Florists' Exchange.

GREENHOUSE, stocked with ferns, near New York, for sale to the right party; only people who mean business need apply. Address R. G., care Florists' Exchange.

FOR SALE OR RENT—11 greenhouses, Hitchcock and Gurney heated; 4-inch pipe; coal cheap; good water; will give a bargain to the right person. Apply Jos. H. De Frehn, 300 S. 2nd St., Pottsville, Pa.

\$5,000 will buy twelve thousand six hundred feet of glass, all heated by steam, with two acres, or more, if wanted; three new houses, three in good condition; terms to suit. Apply W. G., care Florists' Exchange.

FOR SALE—Four violet houses, capacity 25,000 violets; cuttings already set out; all present filled with tomato plants. Living house, four rooms; 2 acres land; near depot. For particulars address W. B. Goodeenow, Stoughton, Mass.

FOR LEASE—Near Jamaica, Long Island, two greenhouses, each about 20x120 ft., heated by hot water; all just put in good condition; small dwelling with about one-half acre land rests with greenhouses. Apply to Winthrop & Stimson, 32 Liberty St., New York.

FOR SALE or to let, five greenhouses, heated by hot water; half acre of land; village water; good dwelling of seven rooms; in the village of North Tarrytown; one mile from station; twelve years' established. Address E. B. J., Box 77, North Tarrytown, N. Y.

FOR SALE—The florist plant and business of the late Edward H. Howland, Holyoke, Mass. This plant consists of 31,860 square feet of land in the center of the city, with a complete and modern greenhouse equipment. The business is a wholesale and retail business, and is the leading establishment in a city of 50,000 people. For particulars apply to N. P. Avery, Administrator, No. 24 Dwight street, Holyoke, Mass.

FOR SALE—Our entire plot, 10 greenhouses, about 25,000 ft. glass, nearly all 16x24 ins. In size, and double thick. Iron and cedar posts, cypress bars; business established over 30 years, but entirely rebuilt in last 10 years; heating, hot water under pressure. A large percentage of income is from cut flowers and floral work; entire products sold retail. Receipts all right, books open. Terms easy. We are only 20 miles from Massachusetts State line, with some of N. H. fine summer resorts near us. Address Ellis Bros., Keene, N. H.

BUSINESS OPPORTUNITIES

FOR SALE or lease, well equipped plant with seven acres, located in good town and fine country; 20,000 ft. glass; cut flowers and plants can sell twice what we can produce; reasons given for wanting to sell. Part cash, balance at purchaser's own time. Address T. F., care Florists' Exchange.

For Sale or Rent

Ten thousand feet of glass; three acres of ground at Narbeth Station, main line Pennsylvania railroad; houses well stocked with spring plants, carnations and chrysanthemums; terms reasonable.

CHARLES F. KRUEGER, Reading Terminal Flower Stand. PHILADELPHIA.

MISCELLANEOUS WANTS

WANTED—To rent or buy, a small greenhouse plant in good order, near New York; Long Island preferred. Address W., Room 95 Cotton Exchange, New York City.

WANTED TO PURCHASE, GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLORISTS' EXCHANGE.

WANTED—To lease or rent, greenhouses in lively town doing a retail business, with from 6,000 to 10,000 square feet. Must be in good running order, and well heated. In Mass., Vt., N. H. or Maine. Address P. A., 161 Pleasant St., Lowell, Mass.

WANTED TO BUY greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange.

MISCELLANEOUS

FOR SALE—Hot-water boiler, in good condition; will handle 2,500 feet glass. Price, \$30.00. E. S. Blauevelt, Wholesale Florist, Coeymans, N. Y.

PUMPS Rider-Erleson. Second-hand, from \$40.00 up; all repairs; other makes; new; cheap.

BOILERS New and second-hand, 2 second-hand steam; first-class condition; will heat 1000 sq. ft. glass, at \$35.00 each.

PIPE Good serviceable second-hand, with Threads: 2-in., 7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 3 1/2 cts.; 1-in., 3 cts.; 3/4-in., 2 1/2 cts. New 2-in. Standard, full lengths, with couplings, 6 1/2 cts. ft. Old and new fittings and valves.

STOCKS and DIES New Economy, best made. No. 1 Threads, 3/4-in., 3/4-in., 1-in. pipe, \$3.00. No. 2 Threads, 1 1/4-in., 1 1/2-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New Saunders Pattern. No. 1 cuts 3/4-in.-1-in. pipe, \$1.00. No. 2 cuts 1-in.-2-in. pipe, \$1.30.

STILLSON WRENCHES New. 18-in., grips 1/4 in.-2-in. pipe, \$1.65; 24-in., grips 1/2-in.-2 1/2-in. pipe, \$2.40; 36-in., grips 3/4-in.-3 1/2-in. pipe, \$4.75.

PIPE VISES New, No. 1 Hinged, grips 1/4-in.-2 in. pipe, \$2.25.

GARDEN HOSE New. 3/4-in., guaranteed 100-lbs. pressure, 7 1/2 cts. per ft.; 1/2-in., not guaranteed, 4 1/2 cts. per ft.

HOT-BED SASH New. Cypress, 3-ft. x 8 ft., from 70 cts. up; glazed, complete, from \$1.60 up. Second-hand, as good as new, complete, at \$1.25 each.

GLASS New American, 50 sq. ft. to the box. 10x12, B, Single, at \$1.40; 10x12-12x12, B, Double, at \$2.40; 12x14-12x14-12x14-14x16-14x16-16x18-16x18, B, Double, at \$2.60; 16x20-16x24, B, Double, at \$2.85.

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News Items.

Decoration Day, from the cut flower standpoint, will without doubt see an abundance of flowers on the market. A shortage of certain kinds may exist, as is always the case at a holiday time when runs are made on particular kinds; but in general there will be plenty of stock to meet all demands. Orders from out-of-town buyers are coming in in goodly numbers, and from appearances this trade will be as good as in former years. Just how local business will develop is hard to determine at present. From reports from plantmen their trade has not suffered to such an extent as cut flowers; but, from appearances, when the end of the season comes, this branch will be found to have lost to a larger extent than a great many realize.

A strike, or lockout, by the different lumber and box manufacturers, has put a different phase on the difficulty, and without doubt all union teamsters will be called out before the end of the week, when new complications will arise.

C. W. Scott, of Vaughan's Seed Store, has returned from a prolonged Western trip.

Mrs. A. L. Glaser, of Dubuque, Ia., was calling on the trade last week, and incidentally looking up Decoration Day stock.

The funeral of Otto Kroeschell took place on Friday of last week, interment being in Graceland Cemetery.

Eugene Brennam, a landscape gardener, formerly of Evanston, has been arrested on a charge of passing a worthless check for \$120 on the cashier of Vaughan's Seed Store.

ROBERT JOHNSTONE.

New Orleans, La.

Richard Eichling, chairman; Paul Abele and M. M. Lapouyade, the committee appointed by the New Orleans Horticultural Society to take charge of its sixth annual outing reported, at the monthly meeting May 18, that they had chosen Grand Isle as the place and July 8 to 11 as the time of the outing. The recommendations of the committee were accepted by the members.

The committee on an emblem submitted a design, but action on the matter was deferred until the next meeting. A communication was received from the Louisiana division of the Sunshine Society, promising its co-operation in the chrysanthemum show to be held in this city during the month of November.

Richard Eichling, with U. J. Virgin, exhibited several specimens of Brassovola Digbyana; Harry Papworth, president of the society, also representing the Metairie Ridge Nursery, exhibited Gardenia florida grandiflora; J. A. Newsham showed Tritoma Pfizeri; G. M. Wichers, of Gretna, exhibited several fine specimens of Egyptian lotus. W. C. Wichers, Richard Eilers, and Fred Zeigler were elected members of the society.

American Rose Society.

A meeting of the executive committee of the American Rose Society will be held at Hartford, Conn., on Monday, June 19. The rose garden in Elizabeth Park will be in full glory at that date and a visit of inspection under the guidance of Superintendent Wirth and the members of the Hartford Florists' Club will form a part of the program. Important business concerning the welfare of the society will also have attention. Communications for the committee should be addressed to the secretary's office, 11 Hamilton place, Boston. W. M. J. STEWART, Secretary.

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PITTSBURG, PA.—T. P. McCormick is no longer with the Pittsburg Florists' Exchange. E. J. McCallum now being in charge.

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Verachaffeltii, Golden Bedder and others, 2 in. pots, \$1.50 per 100; \$15.00 per 1000. Ageratum, Pauline and Garney, 2 in. pots, \$1.50 per 100. Marguerite Carnations, 2 in. pots, \$1.50 per 100. Antera, Verbenas, Plixos, 2 in. pots, \$1.00 per 100. Salvia, Heliotrope, Vinca Variegata, Alyssum, 2 in. pots, \$2.00 per 100; 3 in. pots, \$3.00 per 100. Alternanthera, P. Major, and A. Nana, 2 in. pots, \$1.50 per 100; \$15.00 per 1000. Geraniums, S. A. Nutt and Double White, 2 in. pots, \$2.50 per 100; 3 in. pots, \$3.50 per 100. Faney Plants, in bloom, 75c. per 100; \$5.00 per 1000. CASH WITH ORDER

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4 in., 2 plants in a pot, \$7.00; 2 1/4 in., \$2.50; 2 in., \$2.00. English Ivy Variegated, 2 1/4 in., \$2.00. Vinca Var. Major, 2 in., \$1.75. Rooted cuttings, 75c. Mms. Sallerol Geraniums, 2 in., \$2.00. German Ivy, 2 in., \$2.00. Glechoma, 2 in., \$2.00. Sweet William, 2 1/2 in., \$2.00. SEED-LINGS. Gaillardia, gr fl., mixed; Sweet William, double mixed; Cosmos, tall mixed; Hollyhock, mammoth; extra choice mixed; Panay, extra choice mixed; Aster, Imp. Victoria, blue; Aster, Imp. Victoria, white, 25c. per 100. Cash on O. G. P. J. H. DANN & SON, Westfield, N. Y. Mention the Florists' Exchange when writing.

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Timme's Timely Teachings. Memorial Day. Memorial day proper is but a single day of harvest for the raiser and purveyor of cut flowers, but it means a long period of profitable trafficking in all kinds of plants, especially those in bloom. The cemetery trade begins long before and lasts for weeks after the thirtieth of May. With the retailer it is a continuous, steady run of cash transactions, most of them small in volume, but totally amounting to something worth hustling for. Any and all kinds of plants, fit for planting out, suitable and otherwise, are finding ready sales. Plants in bloom of whatever description, are the chief bringers of money. Small purchases are the rule, but store and greenhouses are crowded with buyers all day long, keeping all hands busy from early morning till late at night. The greatest part of all the stock sold is carried away by the purchasers in baskets, buggies, carriages and wagons. This enables us to work our way rapidly through a lot of business turmoil.

Advice to Customers. While there are fewer questions asked as to the proper treatment of the plants bought for cemetery use than is usual when the regular bedding plant trade is in full swing, there still is a class of Decoration Day customers that is grossly ignorant as to the nature of plants, the number and kind required in each particular case and the way they should be planted. The florist, of course, is looked up to as the infallible authority in all these matters, and much of our time is taken up in giving the needed information. Here I will say, that the florist in general is not quite as infallible as he is supposed to be. While most plants, if rightly planted and afterward well taken care of, will thrive and do finely in the soil of a cemetery, this being generally a decomposed very sandy sod, a good many kinds, although having proved good growers and bloomers on our grounds, quickly fade and perish in the cemetery. Especially should we be careful in recommending plants as perfectly hardy, in particular some of the roses, daisies, box, bellis, hardy primulas, chrysanthemums and pinks and many other good things for a grave, which we have been taught to regard as hardy, but which often fail to show up the second season.

Many Ways of Decoration. No uniformity prevails, no strict rule is observed in the use of flowers and plants on graves, and this, I claim, is good, and is probably the reason why some people find our cemeteries more attractive than our parks. But the strictly formal style of bedding has, after all, found its way into cemeteries, and those who bedeck the graves of their departed with a gaudily wrought design, believe it to be proper and all right. And so it is, as far as their goodwill and benign intentions and the florists' trade are concerned. Orders for this style of planting are quite frequent. An idea how such work will look when completed is best conveyed by displaying a few designs of this kind on a bench—in extenso and en natura—life size, as it were, placing the potted plants at proper distances and in lines producing the desired color effect. Here your patrons can make their choice. This plan also works admirably with bedding plants of any kind, plainly demonstrating the effect created by various combinations, showing the comparative height and the harmony in color and habit. It saves time, brings trade and turns many of the sales, originally small, into big orders. Anything to please your customers, which at the same time is inexpensive and sure to promote trade, is justifiable.

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Silverspot and Bedman, fine big plants, \$2.00 per 100; medium size, \$1.00 per 100.

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In bud and bloom. S. A. Nutt, Beante Poitevine, Alphonse Ricard, double white, 4 in. pots, \$5.50 per 100; \$50.00 per 1000.

DOUBLE PETUNIA 4 in. pots, \$8.00 per 100.

COLEUS Verschaffeltii and Golden Bedder, 2 1/2 pots, \$2.50 per 100; \$20.00 per 1000.

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Timme's Timely Teachings.

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Memorial day proper is but a single day of harvest for the raiser and purveyor of cut flowers, but it means a long period of profitable trafficking in all kinds of plants, especially those in bloom. The cemetery trade begins long before and lasts for weeks after the thirtieth of May. With the retailer it is a continuous, steady run of cash transactions, most of them small in volume, but totally amounting to something worth hustling for. Any and all kinds of plants, fit for planting out, suitable and otherwise, are finding ready sales. Plants in bloom of whatever description, are the chief bringers of money. Small purchases are the rule, but store and greenhouses are crowded with buyers all day long, keeping all hands busy from early morning till late at night. The greatest part of all the stock sold is carried away by the purchasers in baskets, buggies, carriages and wagons. This enables us to work our way rapidly through a lot of business turmoil.

Advice to Customers.

While there are fewer questions asked as to the proper treatment of the plants bought for cemetery use than is usual when the regular bedding plant trade is in full swing, there still is a class of Decoration Day customers that is grossly ignorant as to the nature of plants, the number and kind required in each particular case and the way they should be planted. The florist, of course, is looked up to as the infallible authority in all these matters, and much of our time is taken up in giving the needed information. Here I will say, that the florist in general is not quite as infallible as he is supposed to be. While most plants, if rightly planted and afterward well taken care of, will thrive and do finely in the soil of a cemetery, this being generally a decomposed very sandy sod, a good many kinds, although having proved good growers and bloomers on our grounds, quickly fade and perish in the cemetery. Especially should we be careful in recommending plants as perfectly hardy, in particular some of the roses, daisies, box, bellis, hardy primulas, chrysanthemums and pinks and many other good things for a grave, which we have been taught to regard as hardy, but which often fail to show up the second season.

Many Ways of Decoration.

No uniformity prevails, no strict rule is observed in the use of flowers and plants on graves, and this, I claim, is good, and is probably the reason why some people find our cemeteries more attractive than our parks. But the strictly formal style of bedding has, after all, found its way into cemeteries, and those who bedeck the graves of their departed with a gaudily wrought design, believe it to be proper and all right. And so it is, as far as their goodwill and benign intentions and the florists' trade are concerned. Orders for this style of planting are quite frequent. An idea how such work will look when completed is best conveyed by displaying a few designs of this kind on a bench—in extenso and en natura—life size, as it were, placing the potted plants at proper distances and in lines producing the desired color effect. Here your patrons can make their choice. This plan also works admirably with bedding plants of any kind, plainly demonstrating the effect created by various combinations, showing the comparative height and the harmony in color and habit. It saves time, brings trade and turns many of the sales, originally small, into big orders. Anything to please your customers, which at the same time is inexpensive and sure to promote trade, is justifiable.

ASTER PLANTS

Queen of the Market, Semple's Branching, fine plants, 40 cts. per 100; 300 for \$1.00; \$2.50 per 1000.

J. C. SCHMIDT CO., Bristol, Pa. Mention the Florists' Exchange when writing.

ENGLISH IVY

Fine plants, out of 6 in. pots, 25c. Out of 4 in. pots, 10c.

FORGET-ME-NOT \$4.00 per 100 DAISSIES 2.00 " PANSIES 2.00 "

Please send cash with order. Chas. Zimmer, West Collingswood, Near Phila. N. J.

DAHLIA Kaiserin Augusta Victoria

THE BEST WHITE DAHLIA IN EXISTENCE. My own importation. I control the entire stock of it. Flowers double, of the purest white, 4 to 5 in. in diameter; a wonderful bloomer, stems 12 to 13 in. long; plants 3 to 3 1/2 feet high. The finest plants obtained from cuttings. Good strong stock from 2 1/2 in. pots, \$3.00 per dozen \$20.00 per 100. Delivery May 1st. Orders filled in rotation. Early booking suggested. Highly commended by the American Institute and the New York Florists' Club.

A. L. MILLER, Jamaica Avenue, Brooklyn, N. Y. Mention the Florists' Exchange when writing.

100,000 Alternantheras

Strong rooted cuttings, P. Major, red, 50c. per 100; \$1.00 per 1000. A. Nana, yellow, 50c. per 100; \$4.00 per 1000. Red and yellow, from 2 in. pots, \$1.50 per 100. Special prices on 5000 or more.

DAVIS BROS., Morrison, Ill.

Mention the Florists' Exchange when writing.

GERANIUMS

S. A. Nutt, John Doyle, Mme. Buchner, Miss F. Perkins, 3 3/4 and 4 in. pots, \$5.00, \$6.00 and \$7.00 per 100. J. Viand, 3 in. and 3 1/2 in. pots, \$5.00 and \$6.00 per 100. J. J. Harrison, 3 1/2 in. pots, \$5.00 per 100. Mme. Sallerol, 2 1/2 in. pots, \$3.00 per 100; extra strong.

Cannas, from pots, \$5.00 per 100. We also have a large line of Bedding Plants and Hardy Perennials. Cash with order.

J. B. SHURTLEFF & SON Cushman Av. REVERE, MASS. Mention the Florists' Exchange when writing.

GERANIUMS

S. A. Nutt, Ricard, Poitevine, Double Gen. Grant, 2 1/2 in., \$20.00 per 1000. Rooted Cuttings, Nutt, Ricard, Poitevine, Double Gen. Grant, Buchner, Bruanti, \$10.00 per 1000.

CASH WITH ORDER. PETER BROWN, Lancaster, Pa. Mention the Florists' Exchange when writing.

ASTERS Pot Crown

Giant Purity, Hohenzollern, Creamos and dark blue, Semple's white, pink and purple, 2 in. pots \$1.00 \$3.00

Aster, from seed bed, by mail \$0.40 \$2.50 Purity, Semple, 3 colors, Hohenzollern, 3 colors; Truffaut, 3 colors; Victoria, 3 colors.

Moonvine, 2 in. \$2.50 Cobaea Scandens, 2 in. \$2.50

Dracena Indivisa, 3 and 4 in., 16 to 18 in. \$4.00 and 6.00

Asparagus Sprenger, 2 in. \$2.50 Salvia, dwarf and tall, 2 in. \$2.00

Cosmos, early dwarf and giant-flowering, 2 in. \$1.00 Zinnias, finest double, 2 in. \$1.00

Nicotiana Sandera, 2 in., 75c. per doz. OASH with order, please.

GEORGE J. HUGHES, Berlin, N. Y. Mention the Florists' Exchange when writing.

Carnations, Cannas, etc. SPEAK QUICK

20,000 fine, strong Carnation Plants, from flats, ready to plant, now hardened off outside: Queen Louise, \$20.00 per 1000; Jocoet, \$15.00 per 1000; Prosperity, \$2.00 per 100. 100 or over at 1000 rates.

10,000 fine potted Cannas, well established, price, \$1.00 per doz.; \$6.00 per 100. Shenandoah, David Harum, Crimson Bedder, Mme. Crozy, Florence Vaughan, Pennsylvania, Chas. Henderson, Duke Marlborough, Souv. de A. Crozy, Roemer Pink, Alsace, and Gloriosa, 2 1/2 ft.; Gift Edge, for outside row; Black Beauty, 8c.

Dormant Cannas for massing, not named, \$1.50 per 100.

1000 Boston Feros, 2 1/2 in., 4c. 100 Scottii, 5 in., \$1.00 each; 2 1/2 in., 20c.

1000 Piersoni, 3 in., 10c. 1000 Geraniums, assorted colors, 3 1/2 in., 5c.; 2 1/2 in., \$2.50 per 100.

1000 Heliotrope, dark and light, 2 1/2 c. 2000 Verbenas, pot 2c.; 5ata 1c. 1000 Shasta Daisy, Scarlet Sage, and Ageratum, 2 1/2 in., 2c.

1000 Clematis Paniculata, 3 year, 10c. 500 English Ivy, field-grown, long tips, 8c. 1000 Ampelopsis Veitchii, 2 year, field-grown, 8c.

1000 Ampelopsis Veitchii, pot-grown, dormant, long tips, 4c. 1000 Vinca major, var., 4 in., 8c.; 2 1/2 in., 3c.

1000 Honeysuckle Halleana and Golden, field-stock, 6c. 5000 Chrysanthemums, Dr. Enguehard and Duckham, 5c.

Pacific, Polly Rose, Eaton, Appleton, etc., \$2.25 per 100. Cash, please, or O. O. D.

BENJ. CONNELL, West Grove, Pa. Mention the Florists' Exchange when writing.

SWEET WILLIAM

Fine plants, in bud and bloom, 3 in. pots, 4c. Coreopsis Lanceolata Grandiflora. 2 1/2 in. pots, 4c. Canterbury Bell, 3 in. strong plants, 4c. Foxglove, 3 in. pots, assorted colors, 4c. Hardy Chrysanthemums, extra fine plants in 3 in. pots, pink, white, red, yellow, etc., 6c. Holly Ferns, Cyrtomium Falcatum, nice stock, 2 in., 8c.

Cash, please

R. G. HANFORD, Norwalk, Conn.
Mention the Florists' Exchange when writing.

GERANIUMS
In Bud and Bloom

R. A. Nutt, Beaute Poltevine, La Favorite, Brunel, E. Best, several other varieties, \$3.00 per 100; \$5.00 per 1000.
Fuchsias, in bloom, 4 in. pots, \$3.00 per 100.
Heliotrope, in bloom, \$6.00 per 100.
Salvia, in variety, \$5.00 per 100.
Cannas, Queen Charlotte, green leaved, and robusta, red leaved, \$8.00 per 100.
English Ivy, 3 in. pots, \$3.00 per 100; 4 in. stock, \$4.00 per 100.
Blue Lobelia, 2 1/2 in. pots, \$2.50 per 100.
Double Petunias, 4 in. pots, \$8.00 per 100.
Hydrangeas, 4 in. pots, \$8.00 per 100.
Coleus, rooted cuttings, Golden Bedder and Verschaefeltii, 80c. per 100; \$5.00 per 1000; 2 1/2 in. pots, \$2.00 per 100.

At above prices the selection to remain with us. Cash must accompany the order.

J. E. FELTHOUSEN, Schenectady, N. Y.
Mention the Florists' Exchange when writing.

PLANTS
for Vases and Baskets

ASPARAGUS SPRENGERI. Large, bushy plants with many long vines, from 3-in. pots, \$5.00 per 100; extra fine, from 4-in. pots, \$8.00 per 100.
CAREX JAPONICA VARIEGATA. A most useful grass for filling. From 2 1/2-in. pots, \$3.00 per 100.
COLEA SCANDENS. From 3-in. pots, staked, \$1.00 per 100.
CYPERUS ALTERNIFOLIUS (Umbrella Plant). Excellent stock from 2 1/2-in. pots; \$2.50 per 100.
GLECHOMA VARIEGATA. We have a large, healthy lot of this most useful vine in 2 1/2-in. pots, \$3.00 per 100.
GERANIUM (Ivy-Leaved). Strong plants in 2 1/2-in. pots, in bud and bloom, three standard varieties and colors, \$3.00 per 100.
HONEYSUCKLE (Japanese) Halleana and Golden-Leaved. Do not forget this useful vine in your spring work. Two-year-old field clumps, \$9.00 per 100.
LOBELIA GRACILIS. Strong, bushy plants, from 2 1/2-in. pots, in bloom, \$2.50 per 100.
MAURANDIA VINE (Alba). Thrifty stock in 2 1/2-in. pots, in bud and bloom, \$3.00 per 100.
OTHONNA CRASSIFOLIA. An indispensable vine for filling. Extra strong plants in 2 1/2-in. and 2 1/4-in. pots, \$3.00 per 100.
PETUNIAS (Double). Three of the best varieties, 2 1/2-in. pots, \$2.50 per 100.

We still have all the best Hardy Perennials in stock. Write for special prices.

NATHAN SMITH & SON
ADRIAN, MICH.
Mention the Florists' Exchange when writing.

SMILAX SPRENGERI

Well grown carefully packed plants in any quantity.

\$1.50 per 100; \$12.50 per 1000

150,000 TO SELECT YOUR ORDER FROM

Plumosus-Deflexus-Decumbens-Pansles-Geraniums
SEND FOR SUMMER PRICE LIST
ALBERT M. HERR, Lancaster, Pa.
Mention the Florists' Exchange when writing.

GERANIUMS

10 Var., fine plants, my selection, 3 in. pots \$5.00
Alternantheras, red and yellow..... 2.00
Plumosus Seedlings..... 1.50
Sprengeri, ready July 1st..... 1.25
Smilax, ready in June..... 1.25
Pansy Seed, ready in July, \$1.00 the oz.
Asparagus Plumosus, 2 1/2 in. pots..... 2.00
Sprengeri, 2 1/2 in. pots..... 2.00

CASH OR O. O. D.
JOSEPH H. CUNNINGHAM, Delaware, Ohio
Mention the Florists' Exchange when writing.

Shipping and Packing.

Many of the plants bought for Decoration Day have to be shipped to distant points; many also are delivered at a certain time and place. In the shipping and making up of orders much care must be exercised to avoid blunders, to have the plants arrive in good condition and at the time specified. Where the boxes have to be made expressly, and by hand, so as to fit the bulk of the order to be shipped, good judgment is required, but a year's experience in this line will wonderfully reduce the number of errors made in sizing up an order. To make the weight as light as possible, consistent with safe carriage and the welfare of the contents, is the great trick in packing and a duty to our patrons. The foliage of plants to be shipped must not be wet, and if the ball of earth around their roots is soaked with water, it will make bad packing, but is better than sending them in a too dry condition. Every plant coming out of a 3-inch pot, or larger, should separately be wrapped in paper, leaving most of the foliage free. At this time of the year all plants of a soft growth should be stood upright in the box, either in single or double tier, and the box should be closed with narrow boards, several inches apart, so as to admit air to the plants inside. These upper strips should be nailed down securely, for it must be borne in mind that every teamster or expressman is sure to take a hold right there in lifting the box, no matter how heavy it may be.

Watering.

In the rush of business, occasioned by Memorial Day trade, much necessary work is often neglected. This, indeed, can hardly be helped. Watering, however, should never be neglected, or done in a haphazard way, or be delayed, when the plants are showing signs of suffering for the want of this their life element. Now when the days are long, the sun's rays fierce under glass, the ventilators wide open and most of the plants in full bloom and pot bound at their roots, watering all around is no easy job. But it will not do to have some of your stock go to ruin now, after all the pains have been taken to raise it. Give your plants now all the water they want and as often as they want it. It is the principal means of keeping them in good form. Especially should the smaller retail grower, he who conducts a so-called basket trade, see to it that none of the plants sold and usually taken out of the pot is thoroughly dry at the roots when it leaves his place. A few dozen plants, being taken to the cemetery in baskets, are easily protected against a too rapid drying out by moss, or paper, and should be so protected, where long journeys to the cemetery have to be made. Last year's Decoration Day was a failure—the only one for many years. The weather was truly awful. It was a most dismal, disagreeable and forbidding day, causing a loss of thousands of dollars to the minor class of florists. It is to be fervently hoped that the day to be observed as Decoration Day this year will turn out to be as balmy and fine as usual, for the sake of all and everyone.

FRED W. TIMME.

ROOTED CUTTINGS

LAST CALL

Strong stock, prepaid.

Ageratum, Onray, 50c. per 100. Giant Marguerite Daisies, white, 75c. per 100. Alternanthera, best red, 2 in., 15c. Salvia Splendens and Bonfire, 2 in., 15c. Cash.

BYER FLORAL CO., Shippensburg, Pa.
Mention the Florists' Exchange when writing.

Cyclamen Plants Seed of only selected flowers and well built stock. None better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000.
C. WINTERICH, DEFIANCE, OHIO
Mention the Florists' Exchange when writing.

COLEUS

Five best bedding varieties, large, bushy, 3 in. plants, \$4.00 per 100.
CASH WITH ORDER

E. WICKERSHAM & CO., Pottstown, Pa.
Mention the Florists' Exchange when writing.

25,000 GERANIUMS

Extra fine plants, S. A. Nutt, A. Ricard, Poltevine, Ombre de France, and other good varieties, 3 1/2 in. pots, \$5.00 per 100; 4 in. pots \$7.00 per 100.

Cash with order.

W. C. STICKEL,

Magoun St., NORTH CAMBRIDGE, MASS.
Mention the Florists' Exchange when writing.

YOUR OPPORTUNITY

Nice Double Geraniums, 4 in. pots, \$7.00 per 100. Vinca Variegata, 4 in. pots, \$10.00 per 100. Best varieties of double Asters, mammoth Verbenas and Salvia, in soil, 14 plants in box, \$15.00 per 100 boxes. Large field-grown Panicles, bud or bloom, elegant collection, \$1.25 per 100, \$10.00 per 1000. Cash with order.

C. S. CHASE, Dighton, Mass.
Mention the Florists' Exchange when writing.

Variegated Funkias

Clumps from field, \$10.00 per 100; Only a few left. Dracena Indivisa, From 15 cts. up to 30c. each. Double White Geraniums, with 2 and 3 blooms large bushy plants, \$10.00 per 100; 1 bloom, \$8.00 per 100. Single and double Petunias, in bloom, \$1.00 per doz.

K. E. JUUL, 27 Broad St., Elizabeth, N. J.
Mention the Florists' Exchange when writing.

EXTRA FINE PLANTS
WRITE FOR PRICES

DRACENA INDIVISA 4-in., 5-in. and 6-in. pots.

HELIOTROPE 3 1/2-in. pots.

GUPHEA 2 1/2 in. pots.

SWEET ALYSSUM Double, 2 1/2-in. pots.

COLEUS Verschaefeltii, yellow, mixed, 2 1/2-in. pots.

VINCA MAJOR 4 ft. long, 4-in. and 5-in. pots.

AGERATUM Blue and white, 2 1/2-in. and 3 1/2-in. pots.

PAUL J. BURGEVIN, Port Chester, N. Y.

Mention the Florists' Exchange when writing.

SURPLUS STOCK OF

Shasta Daisies

Have a few thousand fine plants left. They are divisions of selected Stock, all are strong plants and will give a good crop of flowers this season, besides making fine stock plants for next season. While they last, \$2.00 per 100; \$15.00 per 1000.

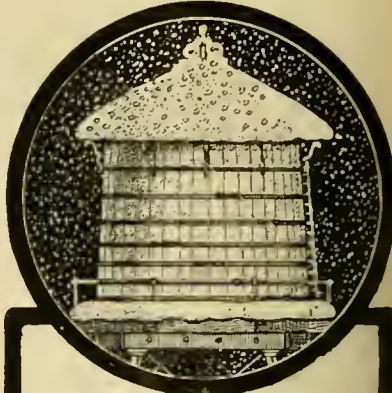
WM. A. FINGER, Hicksville, L.I., N.Y.

Mention the Florists' Exchange when writing.

BEDDING PLANTS

	Per 100	1000
Salvia, 2 1/2 in.....	\$2.50	\$20.00
Heliotrope, 2 1/2 in.....	2.50	20.00
" 4 in. in bloom.....	7.00	60.00
Single Petunias, 2 1/2 in.....	2.00	18.00
Tuberous Begonias, extra fine plants from 4 in. pots, \$10.00 per 100.		

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LARCHMONT, N. Y.
Mention the Florists' Exchange when writing.



"Absolutely Safe and Reliable." Ask your friends.
THEY COME AND GO.
The other builders of
TANKS AND TOWERS
but the
W. E. CALDWELL COMPANY
has gone on building tanks and towers for twenty-five years. The worst of the business is that Caldwell Tanks and Towers never wear out. Those erected a quarter of century ago are still standing.
THE W. E. CALDWELL CO., LOUISVILLE, KY.

TRADE PAPER ADV AGENCY, N. Y. NO. 583
Mention the Florists' Exchange when writing.

GERANIUMS 4 in. pots, \$8.00 per 100. Salvia Splendens and Bonfire, 3 1/2 in. pots, \$4.00; 2 1/2 in. pots, \$2.00 per 100. Centaurea Candidissima, 2 1/2 in. pots, \$3.00 per 100. Achyranthus, 2 1/2 in. pots, \$3.00 per 100. Primula varia, strong clumps, \$8.00 per 100. Funkia variegata, 3 to 4 pipe to clump, \$8.00 per 100. Blue Hydrangeas, from 6 in. pots to 12 in. tubs for Summer flowering. Prices on application. English Ivy, 5 to 8 ft. 4 1/2 in. pots \$15.00. 4 ft. 4 in. pots, \$12.00. 2 and 3 ft. 2 1/2 in. pots, \$3.00 per 100.
JOHN RECK & SON, Bridgeport, Conn.
Mention the Florists' Exchange when writing.

GERANIUMS

Fine plants, mixed colors, from 3 1/2 in. pots, \$8.50 per 100. Cash with order.
LEONARD GOUSINS, JR., CONCORD JUNCTION, MASS.

Mention the Florists' Exchange when writing.

VERSCHAFFELTII COLEUS

2 in. and 2 1/2 in. pots, \$2.00 per 100; \$18.00 per 1000; rooted cuttings, 60c. per 100. Golden Bedder Coleus, 2 in. and 2 1/2 in., \$2.00 per 100; rooted cuttings, 80c. per 100. Assorted Coleus, 2 1/2 in., \$1.60 per 100. S. A. Nutt Geraniums, 2 1/2 in., \$3.00 per 100. Mme. Salleron Geraniums, 3 in., \$5.00 per 100. Assorted Geraniums, 3 in., \$4.50 per 100. German Ivy, 2 1/2 in., \$1.50 per 100. English Ivy, 2 1/2 in., 3c.; 3 1/2 in., 6c. each. Ampelopsis Veltchii, 2 1/2 in., \$4.00 per 100. OASH, PLEASE.

R. I. HART, Hackettstown, N. J.
Mention the Florists' Exchange when writing.

GERANIUMS

IN BUD AND BLOOM

A. Ricard, S. A. Nutt, M. Chevellerre, F. Perkins, Marvel, Mrs. Landry, Jean Vaud, etc., 4 in. plants, \$3.00 per 100. Trego and M. De Castellane, \$10.00 per 100. Mme. Salleron, 2 1/2 in., \$3.00 per 100. Coleus, 2 1/2 in., \$2.50 per 100; 3 in., \$5.00 per 100. Vinca Variegata, 2 1/2 in., \$2.50 per 100. Salvia, 2 1/2 in., \$2.50 per 100. Sweet Alyssum, 3 in., \$3.00 per 100. Ivy Geranium, 3 in., \$6.00 per 100; 4 in., \$8.00 per 100. German Ivy, 2 1/2 in., \$3.00 per 100. Cannas, \$8.00 and \$10.00 per 100. 400 Meteor, 2 1/2 in., \$3.00 per 100. Pelargonium, double white, 5 in., 20c.; 6 in., 30c.

CHRYSANTHEMUMS

Lord Hopstoun, Ben Wells, Et. Bonnefond, Cecil Oatts, Vivand-Morel, Wm. Dnckham, Silver Queen, Mrs. Longly, Lilly Montford, Kimberly, Percy Plumridge, Thirkell, White Bonaffon, Mrs. Chamberlain, O. H. Diederich, Dr. Enguehard, Chelton, Ida Barwood, S. T. Wright, Chevrant. Rooted cuttings, \$2.60; 2 1/2 in., \$3.50.
Major Bonaffon, Mrs. Jerome Jones, Yellow Jones, Mrs. Robinson, F. S. Vallis, Mrs. Coombes, Clnna, Mrs. T. M. Pickett, Marie Liger, M. Donillet, Paul Sahnt, Daiskov, Ivory, Boccassa, Col. Powell, Mayflower, O. J. Salter, Whitefield Dean, Moonier. Rooted cuttings, \$1.60; 2 1/2 in., \$2.50.

Cash, or C. G. D.
W. J. & M. S. VESEY, Fort Wayne, Ind.
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 Prompt Payments.
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 Open every Morning at Six o'clock for the Sale of
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Always ready to receive Fine Stock
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 Violets, Roses, Carnations, Orchids
 ESTABLISHED 1888.

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 To be disseminated 1906. Also a complete line
 of choicest flowers.

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 Beauties, Meteors, Brides and Bridesmaids are the leaders.
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
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55 and 57 West 26th Street, NEW YORK
 SPECIALTIES - Violets, Carnations and Roses
 Shipping orders receive prompt attention. Consign-
 ments Solicited.
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 Receivers and Shippers of
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Wholesale Prices of Cut Flowers, New York, May 26, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	10.00 to 15.00	(Inf'r grades, all colors.....	.50 to .75	
	extra	8.00 to 10.00	STANDARD	{ White.....	.50 to 1.00
	No. 1	6.00 to 8.00	VARIEITIES	{ Pink.....	.50 to 1.00
	No. 2	4.00 to 5.00		{ Red.....	.50 to 1.00
	No. 3	1.00 to 2.00	"FANCY—	{ White.....	1.00 to 2.00
	Bride, 'Maid, (fancy—spe)	2.00 to 4.00	(*The highest	{ Pink.....	1.00 to 2.00
	extra	1.00 to 2.00	grades of	{ Red.....	1.00 to 2.00
	No. 1	.50 to 1.00	standard var.)	{ Red.....	1.00 to 2.00
	No. 2	.50 to 1.00	(NOVELTIES.....	{ Yel. & Var.	1.00 to 2.00
	No. 3	.50 to 1.00		{ Yel. & Var.	1.00 to 2.00
	Golden Gate.....	1.00 to 4.00	LILIES.....		1.00 to 2.50
	Liberty.....	3.00 to 15.00	LILY OF THE VALLEY.....		2.00 to 5.00
	Meteor.....	1.00 to 4.00	MINONETTE, ordinary.....		.50 to 2.00
	Mme. Abel Chatenay.....	1.00 to 4.00	lancy.....		.25 to .50
ADIANTUM		.50 to .75	PANSIES, per dozen bunches.....		2.00 to 3.00
CROWNEANUM		.50 to 1.50	PEONIES.....		4.00 to 6.00
AEPHARAGUS	Sprengerl. bunches	25.00 to 50.00	SMILAX.....		8.00 to 10.00
CALLAS		6.00 to 10.00	STOCKS, per bunch.....		.25 to .35
CATTLEYS		3.00 to 4.00	SWEET PEAS.....		.50 to .75
DAISIES		20.00 to 50.00			
GLADIOLUS		.35 to .50			
IRIS		4.00 to 6.00			
LILAC, per bunch		1.50 to 2.00			
		.15 to .35			

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 Madison Square
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 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

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 Meteor, Lily of the Valley, Carnations
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Edw. C. Horan Wholesale Florist

55 West 28th St., NEW YORK
 TELEPHONE, 1462-1463 MADISON SQUARE
 CUT FLOWERS AT WHOLESALE

Boston.
News of the Week.
 E. Sutermeister, of Hyde Park, met with a rather serious accident one day last week. While delivering a load of plants in Taunton, his horse got frightened at an automobile, and Mr. Sutermeister was thrown from his seat, sustaining two ribs broken and other bruises. It is to be hoped that at this busy season he will have a speedy recovery.

The forthcoming ball game at the picnic of the flower markets is causing considerable excitement among devotees of the sport. Charles Evans is manager and E. Crowley captain of the Park street market team, and James Rough is manager and Thomas Mathews captain of the Music Hall market team.

Joseph Galvin, manager of Galvin's Back Bay store, whose illness was noted several weeks ago, is, we are pleased to hear, able to get down to the store for a short time daily.

The executive committee of the American Rose Society has been invited by Superintendent Theodore Wirth, of the Hartford parks, to visit his rose garden in Elizabeth Park, on June 19 next. It is quite probable that Boston will have a good representation.

Galvin's Back Bay store had the decorations for the luncheon of De Molay Commandery and dinner of Grand Commandery Knights Templar, both at the Somerset, on Wednesday.

John K. M. L. Farquhar has been confined to his home for several days with a severe cold.

J. W. DUNCAN. Philadelphia.

News Notes.
 With an abundance of flowers coming in and only a fair business going on, there is not a great deal to say about cut flower business. The already crowded market is being added to daily by outdoor stock. Peonies are now arriving in quantity; there will be lots of them for Memorial Day.

All the Spring plant growers are very busy, and stock is clearing up well. Geraniums in flower are scarce this week; all those who sold below \$8 per 100 are cleaned out, and growers who held for \$8 and \$10 per 100 have very few left.

Jacob Becker reports a very good season in pot roses. He has sold everything that was in shape, and has realized good prices. Some time ago he turned one house into a retail department, and has found this a great success, as the locality from Fifty-second and Market streets, west, is rapidly being built up.

J. F. Sullivan, Detroit, was a visitor this week. He is a native of Chester county, this State, and was summoned to Avondale, Pa., a few days ago, his father, who is 82 years of age, being very ill. The old gentleman has surprised everyone, and is now about again.

DAVID RUST. Indianapolis.

Flower Show Preparations.

Preparations for a large flower show this Fall are going steadily on. Subscriptions are being received in large numbers, and nothing, it is stated by the management, will be left undone to make the show of Indianapolis second to none in the country. This exhibition is to be extensively advertised, and a liberal guaranteed premium list is offered. Address, Irwin Bertermann, Indianapolis, Ind., secretary.

INDIANAPOLIS, IND.—The wholesale seed house of W. S. Gilbreath is having a big run on sorghum cane seed. The growing of sorghum cane is an important industry in some parts of Indiana and in the middle Western States. The Gilbreath people are filling orders for Illinois, Missouri and other Western States. The demand for seed corn continues fairly active. The busy season for seed dealers has passed, trade in clover and timothy seed having been cared for, and the rush of wholesale trade in seed corn is over. They are still selling some millet.

Full of Information.

Enclosed find one dollar to pay for The Florists' Exchange for another year. Your paper is always full of information, and I would not like to be without it.
 J. M. YOUNG.
 Pennsylvania.

SAMUEL S. PENNOCK { THE Wholesale Florist of Philadelphia } **WILD SMILAX** \$6.00 Per Case
 PLUMOSUS STRINGS, extra heavy, \$40.00 per 100.
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PEONIES THE PHILADELPHIA CUT FLOWER CO.
 CARNATIONS, ROSES, Etc. 1516 and 1518 Sansom St., Philadelphia, Pa.
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FOR JUNE COMMENCEMENTS AND WEDDINGS Philadelphia Wholesale Flower Market
 we have SMILAX, ASPARAGUS, and the finest American Beauty Roses. Also everything else in seasonable flowers.
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FANCY CARNATIONS AND ROSES PITTSBURG CUT FLOWER CO., Ltd.
 504 Liberty Ave., PITTSBURG, PA.

NEW CROP FANCY and DAGGER FERNS Special Quantity Prices on Application
 READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.
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Sphagnum Moss and Cedar Poles
 Moss, 5-barrel bale, fresh and clean, \$1.25; 3 bales, \$3.25; 5 bales, \$5.00. Poles, 2 in. to 5 in. at butt, any length required.
 H. R. AKERS, CHATSWORTH, N. J.
 Mention the Florists' Exchange when writing.

Oyster Shell Lime
 The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

Sheep Manure
 Pulverized. Free from all Adulteration. In Bag, \$18.00 per Ton. Special price on car load lots in bulk.
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 Manufacturers of ONLY OYSTER SHELL LIME
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 Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery
 New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.
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SPHAGNUM MOSS \$1.50 per 8-bbl. bale; in burlap, \$2.00
PEAT \$1.00 per 1-bbl. bag.
 F. O. B., New York City. Cash with all orders.
E. R. BAKER, Flor 34 N. R. NEW YORK CITY

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SUPPLY COMPANY Importers and Manufacturers of ALL FLORISTS' SUPPLIES, RIBBONS and CHIFFONS
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USE **KRICK'S FLORISTS'** Immortelle Letters, Inscriptions, &c.
 Highest Awards Wherever Exhibited

JAPANESE MOSS
 Packed in paper cartons. "Moss and nothing out Moss"; no sticks or dirt. Less than half the price of German Moss.
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TILE DRAINED LAND IS MORE PRODUCTIVE Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Round Drain Tile meets every requirement. We also make Sewer Pipe, Red and Fire Brick, Chimney Tops, Encaustic Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 50 Third Ave., Albany, N. Y.
ROUND TILE
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R These Letters and Designs are made of the best Immortelles, wired on wooden frames, having holes drilled in them to insert tooth-picks by which they are fastened in the design. Give them a trial. You will find these Letters to be superior to any in the market.
 1 1/4-inch Letters and Figures.....per 100, \$2.50
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 2 1/4-inch Letters....." 3.00
 Add 10c. per 100 on 2 and 2 1/4-in. Letters if by mail
W. C. KRICK, 1164-66 Brooklyn, N.Y.

MICHIGAN CUT FLOWER EXCHANGE
 WM. DILGER, Manager
 FANCY FERNS, \$1.50 per 1000.
 DAGGER FERNS, \$1.50 per 1000.
 38-40 Miami Ave., Detroit, Mich.

MEMORIAL DAY

Hardy Dagger Ferns \$1.50 and \$2.00 per 1000.
Bronze and Green Galax \$1.00 per 1000
Bouquet Green \$7.00 per 100 lbs.
Laurel Festooning 5 cts. and 6 cts. per yard.
Leucothoe Sprays \$1.00 per 100.

Sphagnum Moss 50 cts. per bag; \$1.00 per bbl.; \$2.50 per bale.
Green Moss \$1.00 per bbl.
Laurel Wreaths Extra heavy, \$3.00 and \$4.00 per doz.
New Decorative Green Alabama Huckleberry, branch better than Smilax for May and June Decorations, \$7.00 per case.

Florists' Supplies of all kinds, such as MILKWEEDS, CAPE FLOWERS, IMMORTELLES, CYCAS LEAVES, RIBBONS, CUT WIRE and WIRE DESIGNS, and all kinds of LETTERS.
 Order early. Owing to late Spring the supply of FERNS will be limited.

H. M. ROBINSON & CO., 8 and 11 Province St., Boston, Mass.
 Mention the Florists' Exchange when writing.

SOUTHERN SMILAX
 Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.
GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.
LEUCOTHOE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.
Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.50. All kinds of Florists' Supplies.
L. J. Kreshover, 112 West 27th Street, New York, Tel. 697 Madison Sq.

NEW CROP DAGGER FERNS
\$1.50 per 1000.
 They are the finest and largest Ferns ever sold. FANCY FERNS, \$1.50 per 1000.
Bouquet Green \$7.00 per 100 lbs.
BOUQUET GREEN WREATHS and **AUREL WREATHS**, all sizes and prices.
Laurel Festooning, extra fine and full, yard, and made fresh daily from the woods. Send for sample Laurel Wreaths for Memorial Day use.
 Send us your orders for Memorial Day now and you will get the best to be had and at rock bottom prices. Satisfaction guaranteed. No matter how large or small the order it will be filled promptly and with the best and freshest stock right from the woods.

Tell us your wants; we will do the rest. Telephone and telegraph orders will receive immediate attention.

MILLINGTON NEW MASS. 3
 Telegraph Office: New Salem, Mass. 4
 Mention the Florists' Exchange when writing.

St. Louis.

News Notes.

E. W. Guy and Dr. A. S. Halsted, of Belleville, called the past week; they report a good plant trade this Spring.

Otto Koelg has gone to St. Joseph, Mo., for a few days on fraternal business.

John Kalish will leave next week for a four weeks' trip West. The Portland Exposition is the main object of his trip.

H. Loyat has opened a flower branch in Judge & Dolph's drug store at 515 Olive street.

Fred H. Weber had two of his delivery wagons smashed a week ago by careless driving.

Max Herzog has sold his place to the St. Louis & San Francisco Railroad. The deal had hung fire for the past 13 months. He is now offering the glass and plants for sale.

Frank Ellis has been elected first vice-president of the American Chocolate Culture Company. The company has plantations in Panama, and 2,000 acres have already been planted.

C. Young & Sons Company report a heavy plant, seed and bulb trade so far this Spring.

Another week will about wind up the planting season, which the growers report has been a very busy one.

The Henry Shaw medal, which the board of trustees of the Missouri Botanical Garden founded in 1893, valued at \$25, will be offered this year again at the Fall flower show; also \$475 in premiums, making \$500 in all. These will be known as the Shaw premiums, all of which have been accepted by the executive committee of the club.

At the funeral of Peter Busch, son of Adolph Busch, the millionaire brewer, a number of very fine and large funeral designs were seen.

Fred Foster is again sporting a fine horse, which took first prize at the horse show in East St. Louis last week.

The florist bowlers divided into two teams, rolling four games on Monday night. The team captained by Beneke won the match by 14 pins. The following scores were made, in total: Beneke, 677; Miller, 571; F. Meinhardt, 534; Ed. Gerlach, 562; total, 2,344. Kuehn, 664; Beyer, 503; R. Meinhardt, 660; Henry Lohrenz, 503; total, 2,330. F. C. Weber was present, but was unable to roll, owing to a bad foot, and Frank Ellis came in too late to take part in the games.

ST. PATRICK.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY

W. J. COWEE, Berlin, N. Y.

Samples free. For sale by dealers.

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WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS.

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Headquarters in Western New York

For ROSES, CARNATIONS and all kinds of Seasonable Flowers.



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GIVE US A TRIAL WE CAN PLEASE YOU

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Wholesale Florist

1432 S. Penn Square, PHILADELPHIA, PA. Seasonable Cut Flowers Fine Quality

Both 'phones.

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Carnations a Specialty No. 1305 Filbert St., Philadelphia

Bell and Keystone 'Phones.

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1235-37 FILBERT STREET

"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.

Bell and Keystone 'Phones.

We can see more CHOICE SWEET PEAS and EARLY ASTERS.

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Bet. Market and Chestnut Streets

Choicest Stock Always on Hand

Telephone 1-12-26-A.

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A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty. Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

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Successor to Illinois Cut Flower Co.

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CHOICE AMERICAN BEAUTY ROSES

We will take care of your orders at reasonable price. Prompt attention.

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WIETOR BROS.

Wholesale Growers of

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All telegraph and telephone orders given prompt attention.

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VAUGHAN & SPERRY

58-60 Wabash Ave. CHICAGO

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All Cut Flowers at Ruling Market Prices.

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Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, and St. Louis. Rows include various flower types like A. Beauty, Roses, Carnations, and Orchids.

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Long Distance 'Phone, 1435 Court.

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228 DIAMOND STREET

Send for weekly price list and prices on large orders. Pittsburg, Pa.

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BOSTON, MASS.

Asparagus Plumosus Mignonette Chrysanthemums Lily Martini Brides, 'Mails American Beauties

WELCH BROS.

PROPRIETORS

CITY HALL CUT FLOWER MARKET

15 PROVINCE ST.—9 CHAPMAN PL.

Kaiserins Violets Carnots Orchids Valley Carnations

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6287 and 6288

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Manufacturers of Wire designs.

457 Milwaukee Street, MILWAUKEE, WIS.

'Phone, Main 874. P. O. Box 103.

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CYPRESS
Is FAR MORE DURABLE THAN PINE
CYPRESS
SASH BARS
UP TO 32 FEET OR LONGER.
GREENHOUSE
AND OTHER BUILDING MATERIAL,
MEN FURNISHED TO SUPERINTEND
ERECTION WHEN DESIRED.
Send for our Circulars.
THE A. T. STEARNS LUMBER CO.,
NEPONSET, BOSTON, MASS.

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We are the makers of the
MODEL GLAZING POINT
MODEL TOMATO SUPPORT
Write for booklet of prices.
PARKER-BRUEN MFG. COMPANY, Inc.
1135 Broadway, New York,
Factory - - HARRISON, N. J.
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Evans Improved Challenge
Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGER the most perfect apparatus in the market.
Write for catalogue and prices before placing your orders elsewhere.
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THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS
DILLER, CASKEY & CO. Successors to **JENNINGS BROS.**
S. W. CORNER SIXTH AND BERK STS., PHILADELPHIA, PA.
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Greenhouse Material



Hot Bed Sash

of Louisiana Cypress and Washington Red Cedar
OUR FACILITIES INCREASED OUR PRICES RIGHT
OUR GRADES INVARIABLY THE BEST

Write for Catalogue and Estimate, when figuring on your new houses.
A. DIETSCH CO., 615 to 621 Sheffield Avenue, CHICAGO, ILL.
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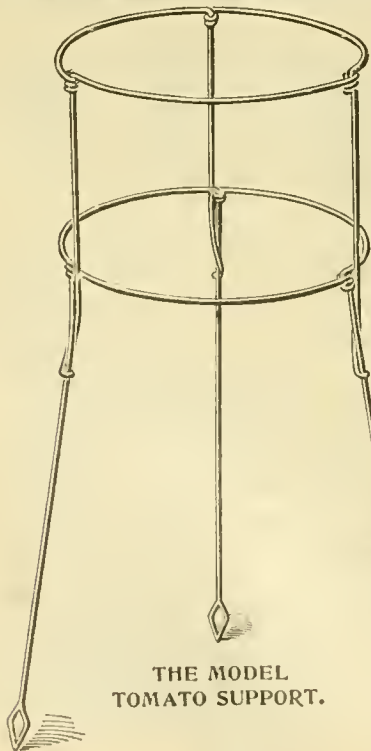
GREENHOUSE MATERIALS

The Best Quality and Work Guaranteed.

CYPRESS SASH BARS
Absolutely clear, sun dried; cut to exact size.
TENN. RED CEDAR POSTS
In lengths as wanted.
PECKY CYPRESS BENCHES
Economical and lasting. Coming into general use.
HOT-BED SASH and FRAMES
Various styles and sizes. Ready for prompt shipment.
VENTILATING APPARATUS
It works like a charm.
PIPE, FITTINGS, GUTTERS, GLASS
And all supplies needed in new or reconstruction work.

Get our Estimates, Plans and Suggestions on Structures Proposed. Illustrated Catalogue sent postpaid.
FOLEY MFG. CO., 471 W. 22nd St., CHICAGO.

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THE MODEL TOMATO SUPPORT.

Mention the Florists' Exchange when writing.

The Only
Perfect Tomato
and
Plant Support

Made of Heavy Galvanized Wire and will not rust.

Height, complete, 34 inches.
Height of bottom section, 24 inches.
Height of top section, 12 inches.
Diameter of circle, 14 inches.

Model Carnation Supports
Galvanized Rose Stakes
and Tying Wire

IGOE BROS.
226 North 9th Street
BROOKLYN, N. Y.

San Francisco.

News Items.

Quiescent is the word descriptive of what florists say of the business status this third week of May. A good Memorial Day trade is predicted.

At this week's meeting of the California State Floral Society preparatory plans for exhibitions the coming year were discussed and committees appointed.

F. A. Miller, proprietor of Hayes Valley Nursery, held an auction sale of plants May 18. Next day Mr. Miller left for the Springs on a health-recreating trip. He has been under a physician's treatment the last three months.

Schwerin Bros., prominent San Francisco flower growers, brought suit this week against the National Ice Company for \$4,966.61, the appraised value of 116,600 lily of the valley pips which, it is alleged, were placed with the company for storage and not properly kept.

During the last nine years Miss Rose Mann has been a prominent factor as a decorative artist in connection with the flower store of her brother, Alex Mann, Jr. She has now opened a floral store in the block next to that in which Mr. Mann is located. ALVIN.

Milwaukee.

News Items.

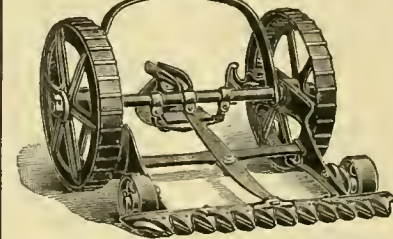
At a special meeting of the Milwaukee Florist Club, held May 16, it was decided to hold a Fall flower show. The club will put in \$500 toward the premium list, and a guarantee fund of \$1,000 will be backed up by the members.

Business has not been encouraging mainly due to the unfavorable weather. There is an abundance of Spring plants in the market, but it is impossible to do any outdoor planting owing to frequent heavy rains.

The Greeks seem to control the business on the principal streets just now, there being several stands in every block; and carnations are offered at pretty low prices. C. C. P.

LAPEER, MICH.—Florist Watson, who was recently appointed on the Park Board, proposes to give \$100 worth of plants each year to beautify the city.

Clipper The MOWER
Lawn Mower Co. DIXON ILL.
that will Kill all the Weeds in your Lawn. If you keep the weeds out so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-in. Mower, \$5.00; No. 2—16-in. Mower, \$6; No. 3—18-in. Mower, \$7; No. 4—21-in. Mower, \$8. Send draft, money order or reg. letter.
Mention the Florists' Exchange when writing.

GLASS

For Greenhouses, Graperies, Hotbeds, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

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392-94 W. Broadway, NEW YORK.
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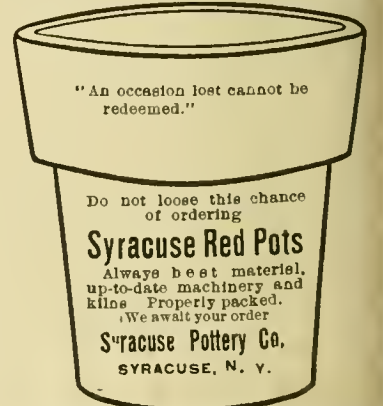
HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
10 Desbrosses St., New York
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STANDARD FLOWER POTS

Packed in small crates, easy to handle.
Price per crate
1500 2 1/2 in. pots in crate, \$4.88, 120 7 in. pots in crate, \$4.20
1500 2 1/4 " " " 5.25 60 8 " " 5.00
1500 2 1/2 " " " 5.00 HAND MADE.
1000 8 " " " 5.00 48 9 in. pots in crate, \$3.60
800 8 1/2 " " " 5.80 48 10 " " " 4.80
600 4 " " " 4.50 24 11 " " " 4.80
820 6 " " " 4.51 12 14 " " " 4.50
144 6 " " " 3.18 6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.
HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Bolker & Sons, Agts. 81 Barclay St., N. Y. City
Mention the Florists' Exchange when writing.



Mention the Florists' Exchange when writing.



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STANDARD FLOWER POTS

THE WHILLDIN POTTERY COMPANY

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Are for sale by all the leading Seedsmen this season. Be sure to specify **COLUMBIA TUBS** when you order if you want the best plant tub made. Manufactured by

INVALID APPLIANCE CO. 629-631 N. Halsted St. Chicago, Ill.
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GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.

Buy "BURNHAM" Boilers

Send to-day to our New York Office
For our Catalogue Illustrating

ROUND "BURNHAM" BOILERS

and large sectional boilers. The former are adapted for Greenhouses of moderate size. **Cast in one piece above base.** No joints to leak. Work Economically, Easily, Efficiently. Save money by buying them.

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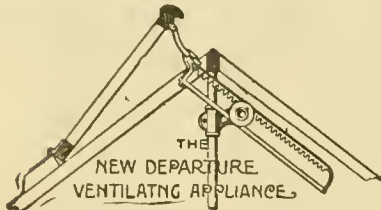
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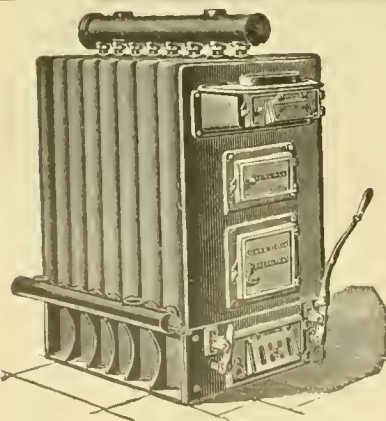
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Plate 100

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

Vol. XIX. No. 22

NEW YORK, JUNE 3, 1905

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EXCEPTIONALLY STRONG
HEALTHY PLANTS OF

Bride, Bridesmaid
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In 2½ Inch and
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I can also supply extra fine
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All my stock is clean and
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True. Greenhouse grown. Late harvested. \$2.50 per 1000; 5,000 for \$12.00; 10,000 for \$20.00. Germination guaranteed.

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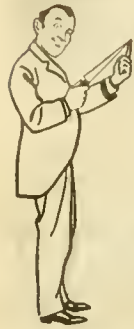
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	100	1000	100	1000
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7 x 9 "	65.00 " 8.00 "
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100	1000	Brenchleyensis, scarlet.....	100	1000
1.50	\$13.00	White and light.....	1.40	12.00
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Flowers of a rich golden yellow, each plant bearing as many as 120 to 175 blossoms. **EASIEST** of cultivation on blocks or in baskets. **Try this; it will pay.**

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In separate colors. Pkt. 500 seeds. Pure white Boule de Neige, 50c. Azure blue, 50c. Dazzling crimson 50c. **NEW sort:** Old rose color Magnificent, 100 seeds, 25c. All colors mixed, pkt. 25c.; 5 pkts., \$1.00. **Cineraria Grandiflora Max**, pkt., 25c.; 5 pkts., \$1.10.

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100	1000	5000
A. Plumosus Nanus.....	\$0.30	\$2.00 \$3.00
A. Sprengeri, NEW CROP.....	.15	1.00 4.00

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for staking Roses, Lilies, Chrysanthemums, Geraniums, Dahlias, etc., Durable

3/4 ft.....	100, \$1.50	1000, \$3.00	2000, \$5.00
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1905 Crop, equal to greenhouse-grown, \$1.50 per 1000 seeds.

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GIGANTEUM MULTIFL.

Best strains of European specialists. Blood red, white rose, pure white, white with carmine eye, mixed. Above 75c. per 100; \$8.00 per 1000 seeds. Daybreak, color, \$2.00 per 100 seeds. Papiilo, mixed, \$1.00 per 100 seeds.

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Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

A good opportunity to engage in the seed business in the West is offered on page 737 under heading "Fine Business Opportunity."—Adv.

HAMILTON, ONT.—Thomas Mitchell Bruce, of the firm of John A. Bruce & Co., seed merchants, died at his home May 12 of heart disease. Deceased was the son of Frank C. Bruce, ex-member of Parliament, and was born in this city. He was 34 years of age.

FRENCH BULB CROPS.—The crop of Narcissus Paper White grandiflora will be abundant. The bulbs have not suffered from dryness and the plants in all the gardens are looking healthy. On account of the sharp frosts during December and January, the leaves of Roman hyacinths were more or less injured. A superabundance of rainfall has also rotted many of the bulbs; still, there will be a sufficient supply of good stock to meet all demands. Trumpet major is looking quite fresh, and there will be a satisfactory supply of these bulbs. The freesia crop is a failure; the demand exceeds the quantity produced for sale. Prices will be considerably higher. Alliums are satisfactory.


ATE GOVERNMENT BULBS.—Even the thriftiest member of Congress no longer sells his supply of seeds from the Department of Agriculture to dealers, and once more the farmers and truck gardeners get a share, and experiment with strange plantings. The city representative has no easy task in arranging for the distribution of his allowance, as he cannot take the trouble to learn who among his constituents has a garden. To a German supporter Representative Ryan, of New York, sent a supply of flower bulbs—tulips and the like—and the result was sudden sickness in the family. The recipient supposed the bulbs were Bermuda onions, and they served his table as soup, with nearly fatal results.—Brooklyn (N. Y.) Eagle.

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Now ready, a large stock of stout, healthy plants. **CEDARVILLE**, an improvement of Yellow Nansmond. An abundant bearer of handsome, rich, yellow tubers of medium size and comely shape, \$1.00 per 1000.

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These plants are timed to bloom in July and August and are admirably suited for planting in large tubs or pots, or fancy receivers.

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The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

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PEONIES

Wholesale and retail catalogues ready for distribution. Sent free on application. All stock guaranteed true to name. Send your orders in early to be assured of a good collection for Fall planting.

PETERSON NURSERY
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Degrees of Hardiness in Peonies

Editor Florists' Exchange:
People often complain that their peonies do not bloom when a close inspection will show that the flowers have been nipped in the bud by late frosts. The buds of most of the tree peonies are almost invariably killed in this way. There are some very choice varieties, like Lady Curzon, which I notice are full of dead buds. Many of Kelway's fine ones are very sensitive. On the other hand, two of Rosenfield's famous ones, Floral Treasure and Golden Harvest, seem to "glory in tribulation." Two years ago, my peonies, when 13 inches tall, were frozen solid in sleet for two days. When they thawed out they were in a sad plight, looking water-soaked and dead. Some seemed so grieved by this treatment they never gave a bloom. Festiva maxima resented it, and gave no flowers. Many of our hardy sorts stopped right there, and were covered with dead buds, but the two above-named went right on and did their very best. Floral Treasure was a hemisphere of glory, 6 inches across, and Golden Harvest was enveloped in a flood of bloom. The former had such immense double flowers it bore no seed. Last season was very favorable, but the flowers were not so large, and I gathered quite a lot of seed from them and have now quite a lot of promising plants.

I think we should note this fact very carefully. Calls for peonies come in from Montana and Wyoming. There is a complaint of their not blooming. Especial attention should be paid to the selection of those that can resist the late frosts, and when we come down to the matter some of our choicest ones must take a back seat, because they are not hardy enough to give us flowers every year. Full and continuous bloomers that can be depended on are what we need. C. S. HARRISON.
York, Neb.

LOS ANGELES, CAL.—Horticulturists and florists, local and visitors, were the guests of J. C. Vaughan, president of the Society of American Florists, at a dinner at Union League May 18. The meeting was held for the purpose of enabling those present to learn something of the object and scope of the national organization, and in that way interest them in a society which will soon be perfected here. Delegates from the horticultural centers of the State were present. A number of prominent florists of San Francisco were at the dinner and read addresses on subjects of interest to those in attendance. Another meeting will be held soon, at which organization of the local society will be perfected. The speakers were: J. C. Vaughan, H. Platt, of San Francisco; Capt. F. Edward Gray, Henry Albers, Frank Pelicano, Ernest Braunton, and Superintendent Morley of the City Park Department. The members of the committee who made arrangements for the dinner were: Morris Goldenson, Captain Gray, O. C. Saakes, A. F. Borden, and Thomas Wright.

FIRES.

CONCORDVILLE, PA.—On May 26 a fire in the greenhouses of Pennock E. Sharpless, did damage to the extent of \$10,000.

NEW LONDON, CONN.—In the store of Pratt & Giger, on May 25; damage \$14,600.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

SPRINGFIELD, MASS.—Messrs. Adams & Co., nurserymen, this year filled a large order for mountain laurel from an estate in Scotland.

Situation for the Laburnum.

Visitors to Europe, especially those who reach the British Isles in Spring, return with tales of the wondrous beauty of the laburnum, and often do they express the wish that this shrub, or small tree, would thrive here. Many think it is not hardy, but so far as the Middle States are concerned this is an error. In Pennsylvania it is perfectly hardy. The reason it is not seen oftener is that it dislikes our hot sun and dry climate; that is, dry alongside that of England. The subject was brought to mind to-day by seeing two lovely specimens in full flower. They had been planted between other shrubs and to the east of several tall growing shrubs and trees, so that they were fairly well screened from the sun, and, being in grass as well, the roots were cool. The specimens were very good; and, had the situation been a rather damp one, which it was not, they would have been better still. They were in perfection of bloom May 15. An ideal place for the laburnum would be the eastern side of a building, or some similar object, where the sun would reach it but a few hours of a morning, and the soil should be of a moist nature. In such a place charming specimens and flowers could be looked for.

The greater number of the readers of The Florists' Exchange know all about the laburnum anyway, but these notes may serve to call attention to the fact that it need not be the uncommon plant in collections it is. And they all know how easily it is raised from seeds, and how quickly the plants grow and become of a flowering size when growing where suited.

This good old subject is almost universally known as Cytisus Laburnum, but authorities say it should be Laburnum vulgare. There are many varieties of it—golden leaved, curled leaved, and some with longer racemes than common; but to the majority of us the old kind is more endearing.

Rhododendron Catawbiense.

Among the many hardy hybrid rhododendrons our collections contain, a great many are indebted to the native one, *R. catawbiense*, for their beautiful foliage and hardy character. *Catawbiense* is good enough for cultivation just as it is from its wild state, and the wonder is that it is not oftener found in collections than it is. Its flowers are of a pink or bluish purple, just as good as those of many of the hybrids which are met with in collections. And it is among the hardiest of all rhododendrons, coming from the highest summits of the Alleghenies, in Virginia and North Carolina. Also, what is a considerable merit, some will consider, is the fact that, as it flowers at the same time as the majority of the hybrids, it can take its place in a bed of them.

The hybridizing of *R. catawbiense* and *R. maximum* with the foreign sorts *R. indicum*, *arboreum* and *poncticum*, is what has given us the beautiful sorts we have in our collections of to-day. And it is the hardy blood of our own species, incorporated in the more tender sorts, that makes possible the growing of the beautiful hardy collection that can now be possessed.

R. maximum, the other hardy species referred to with *R. catawbiense*, is a late flowering one, not blooming until July. This makes it desirable for forming groups by itself, as no other one flowers with it, not even any of the hybrids that appear in collections. There is some diversity of color in this one, even in its wild state; some are light pink, others white, and there are still other slight differences in the flowers. It is no wonder that collectors find such a demand for large plants of these two hardy species.

Pavia Rubra and Varieties.

What old botanics listed as *Aesculus Pavia* and later ones as *Pavia rubra*, is a native shrub, rarely met with in collections. It is a beautiful shrub and one which, were it better known, would be in great demand, as in addition to its merits as a flowering shrub, it is of a character no other Spring-blooming shrub approaches. It flowers when the horse chestnut tree does, in early Spring, and being but a small shrub it is very ornamental.

The normal color of its flowers is red; but it is a singular thing that a bushel of seeds obtained from Kentucky some years ago gave plants varying greatly in color from red to greenish white. The seeds were supposed to have come from wild bushes, and, if so, the seedlings indicate a great variation in color of those in a natural state. The foliage, too, as well as the flowers, differs, some being much more glabrous than others. There is a great difference, also, in the appearance of the panicles in the arrangement of the flowers. While a few have the blooms much scattered, like the figure in Nicholson's Dictionary, the most of them have densely crowded panicles, the flowers touching one another. There should be something in

this dwarf pavia for our nurserymen, and some of the Kentucky or Tennessee seedsmen should be able to supply the seeds. The only other dwarf horse chestnut we have is the one called *parviflora—alba*, properly—and this one flowers in Midsummer; *rubra* blooms in May.

Huckleberries and Cranberries.

Last Summer when visiting a friend's grounds a wood was passed through from which nearly all the underbrush had been cleared away, leaving but a few huckleberries here and there. These had done so well and had borne so much fruit that the owner suggested the procuring of some seeds and sowing them in patches here and there, to get more plants of them. I advised him that he would be far better satisfied to get several hundred plants and set them where he wanted them, instead of trying seeds. Out of the wood, along its border, the same party had a bog, swampy enough in fact that sphagnum moss flourished in it. In this bog he thought to sow cranberry seed, and again I advised him to set plants instead.



VIEWS IN GOLDEN GATE PARK, SAN FRANCISCO, CAL.

To the expert nurserymen there is no great art in raising the cranberry and the huckleberry from seed; but there are certain conditions required to gain success which one not a nurseryman would not understand or be able to fill. The seeds are sown in damp, mossy soil, in closed frames, and require the closest kind of watching from the time of sowing until the seedlings are well above ground, to be sure that the moisture, air, shade and other conditions are just right. To sow such seeds broadcast would be to have a few plants spring up here and there, for the fruit of which one might wait a dozen years. Better by far get plants from some nurseryman. If huckleberries are not grown, they can be dug up in some wood, and if cut down half way to the base, they will grow very well, and be the better for the cutting back. To the nurseryman who has not a supply of these fruits it would be to his profit to get a lot in stock. The tall growing one, *Vaccinium corymbosum*, is not only good for fruit, but also for its pretty flowers in Spring and its lovely crimson foliage in Autumn.

Abies Arizona.

A reader of The Florists' Exchange writes to me as under:

Whenever The Florists' Exchange comes in I always look at your articles first, no matter how busy I am. And this time I was very much pleased with what you say of *Abies arizonica*. We got a plant of it, also, some years ago, and we find it perfectly hardy here, and a very beautiful little specimen it has grown to be. But the growth is not more than three inches a year. The introducers claim it to be a more rapid grower, and we sent there (Pinehurst Nurseries) this Spring for it, but judging from the two plants received we should say there is no more growth in them. We have tried it from seed, and found it very difficult to get them to grow, but believe it can be propagated by grafting, and then wait many years to get a small specimen.

WM. F. JEFFREY.

It is pleasant to get letters like this from readers of The Exchange, and this one is much appreciated.

Regarding the slowness of growth, it must be remembered that all recently transplanted firs are slow of recovery. Add this to the *Abies arizonica* coming from the mountains of Arizona, and a rapid growth could not be looked for. The growth will be more rapid as the young trees gain strength, no doubt; but that it has grown slowly in Arizona is apparent from the fact that the little block, mentioned in my former notes on this fir, though but three inches in diameter, has over twenty rings of growth showing in it.

Propagating Hardy Shrubbery.

David A. Robinson, Everett, Mass., writes: "Kindly advise me the best method of propagating all kinds of hardy shrubbery." The propagation of shrubs is something of great interest to all nurserymen and florists, and this leads the writer to give hints on the subject in almost every issue of The Florists' Exchange. At the present time preparations for layering are going on in almost all nurseries. As soon as the new shoots are of sufficient length to layer, the work should proceed, as the sooner they are in the ground the better they root. Almost all shrubs can be increased by layers, but some root much easier than others. Every day shrubs, such as snowballs, hydrangeas, spiraeas, weigelas, and the like are easily layer rooted. Layering may be continued until Midsummer, but in the case of sorts which do not root readily the work should be done early.

In addition to layering, green wood cuttings, in a greenhouse, offer a way of getting up a stock. Half-ripened wood is used; and all florists and nurserymen know how to proceed to root cuttings indoors. Light boxes are best to use for receiving the cuttings, as they can be shipped about as desired. The same can be said of cuttings as of layers; some root much easier than others. Trials will teach which they are, while space will not permit of particularizing them here.

Next to layering and soft wood cuttings the hard wood cuttings are the most particular. These are made in the Winter season from well-ripened shoots of the Summer passed. Every kind of shrub may be tried, and nearly all will succeed. The cuttings are made into lengths of about six to seven inches, labeled, tied in bundles, and buried in sand, in a cool cellar, there to remain until Spring, when they are set out in nursery rows the first day suitable for the work.

Seed sowing, inarching and grafting are all methods to be employed at times. Seed sowing requires experience to be very successful in raising seedlings; when well understood, nurserymen raise their supplies of many sorts nearly altogether by seeds, sown either in Fall or Spring. Inarching of rare maples, stuartias, and shrubs hard to increase in other ways, is sometimes employed.

It is hoped these hints will help this correspondent. There is nothing like a little practice to gain experience, but much of use could be gleaned by the perusal of a work on propagation, say Fuller's "Propagation of Plants," [which can be obtained from The Florists' Exchange, price \$1.50.—Ed.]

JOSEPH MEEHAN.

Golden Gate Park, San Francisco.

To visit San Francisco without visiting Golden Gate Park would be like visiting France without making a stop in Paris. Golden Gate Park is conceded by experts to be one of the leading parks of the world, and the development of this magnificent specimen of landscape work is but in its infancy, for the plans which are made for the completion of a park system have been carried out only in part. This park now comprises 1,040 acres of land and will be much larger when the plans of the Park Commissioners have been culminated.

It is situated at the great entrance to the western part of the United States, and the natural advantages which come from climate and surroundings are very great. Some thirty odd years ago it was practically one big sand hill, and to-day it stands as a marvel of landscape gardening; and there is perhaps no more interesting spot in California for the lover of plants and shrubs.

The absence of frost and the fact that the park is always, at any season, a spot of beauty and a mass of growing shrubs and flowers, adds to its usefulness. The immense playgrounds for the children and the walks and drives make it the center of attraction at all times.

Connected with the park is the Memorial Museum with a valuable as well as an instructive collection of artistic and also historical specimens. The statuary about the grounds are objects of beauty, and the list of these is growing rapidly.

In the conservatory there is a very large collection of plants, too numerous to name, and many very valuable. This large conservatory is used for nothing but the collection of plants, and the ferns are, perhaps, the more numerous. Orchids also receive a great deal of attention and the specimens are numerous and varied.

One must see such a park as this to appreciate it, and such a park can be seen only where there is a climate which will permit of the handling of plants and shrubs as they are handled here. A large century plant, coming into bloom, will soon be an added interest. I am sending a photograph of a section of the park as I saw it in midwinter, and to the person from the colder regions of the East it is a revelation.

The oiled road is a feature of California, and here there are miles of drives between beautiful trees and flowers over roads that are smooth and without dust, and at the same time less expensive and easier on the horses than the noisy macadam with which the East is so familiar.

W. R. PIERSON.

ROSE STOCK CHRYSANTHEMUM STOCK

GRAFTED KILLARNEY

I had ordered material for the erection of several new rose houses this Spring. Recent unavoidable events have caused me to change my plans. This leaves me with several thousand very desirable grafted roses on hand which I now offer for sale at a bargain. This lot includes **KILLARNEY, METEOR** and **BRIDESMAID** in 3 in. pots, first-class stock, intended for my own use. These roses are ready for immediate planting, and of healthy and vigorous growth. Also ready for immediate shipment, grafted **Bride, Chatenay, Ivory, Golden Gate, La Detroit, Testout** and **Morgan**. I have in own-root stock **American Beauty, Chatenay, Bridesmaid, Bride, Meteor, Golden Gate, Ivory** and **Uncle John**. Several thousand home-grown Killarney to offer this Fall.

Rooted Cuttings

The following choice varieties of **CHRYSANTHEMUMS**, rooted cuttings, are now ready; healthy, vigorous, well-rooted plants:

Enguehard, Duckham, Marie Liger, Ethelyn, Alice Byron, Polly Rose, Willow Brook, Wanamaker, Robinson, MacArthur, Chadwick, Glory of Pacific, Pink Ivory, J. K. Shaw, Adela, Maud Dean, Lavender Queen, Harriott, Monrovia, J. E. Lager, Georgiana Pitcher, Appleton, Golden Gate, Bonnaffon, Trenor L. Park, Cullingfordii and Kate Broomhead.

Write for Prices. A. N. PIERSON, CROMWELL, CONN.

Mention The Florists' Exchange when writing.

KAISERIN ROSES

Strong, Healthy Plants

3 in. pots . . . \$7.00 per 100
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BRIDE, BRIDESMAID, IVORY, GOLDEN GATE, MME. ABEL CHATENAY
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1217 Arch Street, PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

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60,000 GRAFTED ROSES For Forcing

Extra fine healthy plants, frss from mildew.

LIBERTY, Rose pots, \$15.00 per 100; 3 1/2 inch pots, \$18.00 per 100
BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN
Rose pots, \$10.00 per 100; \$95.00 per 1000
3 1/2 in. pots, \$15.00 per 100; \$145.00 per 1000

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VERSCHAFFELTII, GOLDEN BEDDER, FIREBRAND
Rooted Cuttings, 75c. per 100; \$6.00 per 1000
SEND FOR PRICE LIST

J. L. DILLON, Bloomsburg, Pa.

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Everblooming Roses

Surplus stock of standard varieties of Everblooming Bedding Roses, at prices that will close them out.

Strong, healthy stock from 2 1/2 in. pots, to include Bridesmaid, Bride, White Maman Cochet, Mary Washington, Queen's Scarlet, etc.

Strictly our choice of varieties in good assortment, \$2.00 per 100, \$17.00 per 1000

The Stopps & Hapison Co.

PAINESVILLE, OHIO

BABY RAMBLER

ON ITS OWN ROOTS

Strong, healthy, 2 1/2 in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000. Ready to ship at once. A few 3 inch plants, \$3.50 per doz.; \$25.00 per 100.

TEA ROSES Good assortment of varieties, \$3.50 per 100; \$30.00 per 1000. Strong, healthy plants.

Genista Fragens 2 1/2 in., 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

CANNAS

We still have healthy, dormant roots, in Crimson, Yellow, Pink, Variegated Shades, Bronze Leaf Varieties. Also Orchid-flowering varieties. Send for our list and prices.

THE CONARD & JONES CO. WEST GROVE, PA.

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AMERICAN BEAUTY, extra fine, 3 in. per 100, \$6.00
LA DETROIT, extra fine, 3 in. " 8.00
CHATENAY—Perle and Sunrlse, 3 in. " 5.00
Cobaea Scandens, 2 1/2 in. per 100, \$2.00
Cobaea, extra fine, 3 in. " 4.00
Nicotiana Sanders, 2 1/2 in. \$1.00 per doz.
Alysum, extra fine, full of bloom, 2 1/2 in. per 100 \$2.00
German Ivy, 2 1/2 in. " 2.00
Sheeta Daisies, 2 1/2 in. " 2.50
Christmas Peppers, 2 1/2 in. " 2.00
Mention the Florists' Exchange when writing.

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JOHN BURTON, Receiver.

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CARNATIONS and Novelties in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA.
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New Rose Wellesley

Own Root Plants, \$25.00 per 100.

Waban Rose Conservatories, NATICK MASS.

John N. May, Summit, N. J.
Mention the Florists' Exchange when writing.

ROSE PLANTS

Fine stock from 2 1/2 in. and 3 1/2 in. pots, of the choicest varieties, including Killarney, Bride and Bridesmaid. Write for prices.

JOHN YOUNG, 51 W. 28th St., New York City.
Telephone 4462 Madison Square.
Mention the Florists' Exchange when writing.

ROSES

Bride, Bridesmaid, Ivory and Golden Gate, extra strong stock, out of 3 in. pots, \$4.00 per 100; \$35.00 per 1000.
Grevillea Robusta, fine for vases, etc., 18 to 24 in. high, out of 4 in. pots, \$2.50 per doz.
Asparagus Plumosa, 2 1/2 in., \$3.00; 3 in., \$5.00 per 100.
JOHN C. HATCHER, Amsterdam, N.Y.
Mention the Florists' Exchange when writing.

ASTERS

Bentley's Famous Asters, extra fine stock, from 2 1/2 in. pots, \$2.00 per 100; \$17.50 per 1000.
American Branching, Hohenzollern, Queen of the Market and Carlism's, from bench, 80c. per 100. \$5.00 per 1000; from 2 1/2 in. pots, \$1.50 per 100, \$12.50 per 1000.
PRIMULAS for July Delivery

ROSES

Perle, 3-in. pots, \$4.00 per 100; Bride and Bridesmaid, 2 1/2-in. and 3-in. pots, \$3.00 per 100; Golden Gate, 4-in. pots, \$4.00 per 100; Ivory, 2 in. pots, \$3.00 per 100; 4-in., \$5.00 per 100.
Also **DRACENA INDIVISA**, 5 in., 20 cts. each; 2 in., \$2.00 per 100. **ASPARAGUS PLUMOSA**, 3 in., \$4.00 per 100. **ASPARAGUS SPRENGERI**, 2 in., \$2.00 per 100.

Wm. B. Sands, Lake Roland, Baltimore, Md.
Mention The Florists' Exchange when writing.

E.G. HILL CO.

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RICHMOND, IND.

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FOR FALL, 1905

ROSES, strong, home-grown plants; H. P.'s and Ramblers.
CLEMATIS, Large Flowering and Paniculate.
CLIMBING VINES, leading varieties.
ORNAMENTAL SHRUBS and TREES, fine assortment.

JACKSON & PERKINS CO. NEWARK, N. J.

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Blake's Lever Clip

FOR FASTENING STAKES TO THE CROSS WIRE

PATENTED SEPT. 23 1902.

They never slip and are a great saving of both time and money.

EVERY GROWER SHOULD TRY THEM AND BE CONVINCED

Price, \$1.75 per 1000

Send 10c. for trial order if you desire to test them.

B. S. BLAKE & SON, ROCHESTER, N.Y.
150 Linden Street

BRANCH OFFICE, 26 BOERUM PLACE, BROOKLYN, N.Y.

Mention the Florists' Exchange when writing.



Chrysanthemums.

(179) Kindly inform me what the enclosed 'mum leaves are affected with. I planted them in the benches May 12 and the plants have only received two applications of water; therefore I don't think the trouble arises from over-watering. Most of my plants are affected in this way. They seemed to be all right until a few days ago, when the leaves began to get yellow around the edges. Then, when the sun hits them, they seem to burn up, where the yellow part shows. I would be very thankful if you would tell me what the trouble is and how to cure it. F. A.

The chrysanthemum leaves show no disease excepting that which arises from overwatering, too much shade, or bad drainage. Keep them well on the dry side for a time, give plenty of air, and they will no doubt grow out of the trouble.

San Francisco.

A New Society to be Organized.

Including Mr. Sanborn, florist and grower of Oakland, the following San Franciscans returned this week from what they enthusiastically report a perfectly delightful five days' visit with the splendid fellows of the trade in Los Angeles: P. H. Plath, Frank Pelicano and Pete Ferrari. The following committeemen of the Los Angeles trade won their hearts completely while automobiling and steamboating in taking in the show places of their attractive city and charming Catalina Islands: Steve Wolfskill, Captain Gray, Tom Wright, Morris Goldenson, J. Dieterich, Charles Winsel, and C. A. Brazee.

About all the horticulturists in and around San Francisco had received timely notices from the Chicago office of President J. C. Vaughan of the S. A. F. O. H., to assemble in Los Angeles, but growers were so busy it was left to four, Vice-President P. H. Plath, of the S. A. F. O. H., and three others, to go down to the Southern California city as their representatives. At the trying place in Los Angeles, 96 were present at the elegant banquet. The object was to jolly up the trade south of Tehachapi to organize a horticultural society. The representatives from San Francisco and Oakland were called on to speak of the advantages found in having a horticultural society. President Vaughan has become a Midwinter and Midsummer resident of South California, and is taking great interest in the formation of a horticultural society there; and from the spirit that was manifest, it is only a matter of a few days until the talked-of organization will be a reality, and that J. C. Vaughan will be successfully insisted upon for president.

A New Calla.

Luther Burbank has obtained a new yellow calla, the product from crossing Richardia Pentlandi and R. Elliottiana, with our native hardy dwarf calla, increasing the richness of the yellow coloring. Mr. Burbank declares that these yellow callas are now hardy enough to be grown as easily as potatoes. ALVIN.

LOOKING FOR A BUYER

of the very finest kinds, including Cheltoni, Guy Hamilton, W. Duckham, Donald McLeod, and many others. Why not write me? I can save you money on Chrysanthemums. **CHARLES H. TOTTY, Madison, N. J.**

Mention the Florists' Exchange when writing.

Hail News.

LEAVENWORTH, KAN.—A paragraph in a local paper states that, during a hail storm here on May 11, "every greenhouse in the vicinity was destroyed."

KEWANEE, ILL.—The following item appears in the local newspaper of May 23: "Hamilton & Plummer, florists, have just received the insurance on the loss sustained by them in the recent hail storm which visited the city. The firm, it will be remembered, lost six thousand panes of glass in its greenhouses. The payment for the loss was made within a week after proof of loss was submitted. The insurance was carried in the Florists' Hall Association, with headquarters at Saddle River, New Jersey."

The F. H. A. is a business concern, operated by men who know how business should be conducted; hence, its success.

SYRACUSE, N. Y.—Robert Dunn, foreman for P. R. Quinlan Company, has resigned his position, and will grow for the New York market. J. B. B.

He Will Come Again.

The little advertisement in your paper has proven a paying investment, and I will take more of the same next year. ASA WRIGHT, Texas.

CHRYSANTHEMUMS

BEST COMMERCIAL VARIETIES Per 100
Strong Plants, 2 1/2 in. \$2.00
Vinea Var., R. C., \$1.00; 2 1/2 in. 2.50
Violet, Princess Wales, R. O. 1.00
Carnation, R. O. \$1.50 to 3.00
Write for List at once.

SMITH & GANNETT, Geneva, N. Y.

20,000

Chrysanthemums

All standard varieties, including Wm. Duckham and Dr. Enguehard, at \$20.00 per 1000. Samples free.

GERANIUM NOVELTIES of recent years, in bud and bloom, 4 inch pots, \$8.00 per 100.

HENRY EICHHOLZ, WAYNESBORO, PA.

Mention the Florists' Exchange when writing.

Chrysanthemums

New and standard varieties. Fine plants now ready, 2 1/2 inch pots. Write for list and prices.

H. WEBER & SONS
Oakland, Md.

Mention the Florists' Exchange when writing.

Chrysanthemum Stock

Our stock plants have never been stored under the bench but have been grown cool in one of our best three-quarter span houses since flowers were cut. We offer short, stocky plants, in perfect condition.

2 1-4 INCH POTS		White, Per 100		White, Per 100	
Wm. Duckham... \$5.00	Yellow, Per 100	Convention Hall... \$3.00	Polly Rose... \$2.00	Timothy Eston... 2.50	White Bonnafton... 2.00
A. J. Balfour... 3.00	Col. D. Appleton... 2.50	Ivory... 2.00	Lady Fitzwygram... 2.00	Mrs. H. Robinson... 2.50	Mrs. Jerome Jones... 3.00
Dr. Enguehard... 4.00	C. J. Salter... 4.00	Lady Fitzwygram... 2.00	Mrs. Bergman... 2.50	Mrs. H. Robinson... 2.50	Mutual Friend... 2.00
Glory of Pacific... 2.00	Orem... 2.00	Mrs. Bergman... 2.50	Albee Byron... 3.00	Black Hawk... 2.00	Dazzler... 3.00
Maud Dean... 2.50	Henry Sinclair... 2.50	Albee Byron... 3.00	Nellie Pockett... 2.50	John Shrimpton... 2.50	
Mlle. M. Liger... 3.00	Major Bonnafton... 2.50	Nellie Pockett... 2.50	Mrs. H. Robinson... 2.50		
Mrs. Coombes... 2.50	October Sunshine... 2.00	Mrs. H. Robinson... 2.50	Mrs. Jerome Jones... 3.00		
Nemesis... 2.00	Yellow Eaton... 5.00	Mrs. Jerome Jones... 3.00	Mutual Friend... 2.00		
Pink Ivory... 2.00		Mutual Friend... 2.00			

EDW. J. TAYLOR, SOUTHPORT, CT.

Mention the Florists' Exchange when writing.

Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass.
Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

Rooted Cuttings from cool grown stock of the following varieties

American Beauty, globular, dark pink; Dr. Enguehard, \$4.00 per 100. Merry Monarch, white and yellow; Willowbrook, Polly Rose, Pacific, R. Halliday, Ivory, Robinson, Nellie Pockett, Bonnafton, Maud Dean, Merry Christmas, \$1.50 per 100; \$12.50 per 1000.
Cash with order, please.

G. F. NEIPP, Jamaica P. O. Woodhaven Station
Aqueduct, L. I., N. Y.

Mention the Florists' Exchange when writing.

50,000

Chrysanthemums

Dr. Enguehard, 2 1/2 in. pots, \$3.50 per 100 Rooted cuttings, \$2.50 per 100.
Amarita, \$3.50 per 100. Rooted cuttings, \$2.50 per 100.

Golden Wedding, Ivory, Appleton, Jerome Jones, Pacific, Polly Rose, Willow Brook, Robinson, Maud Dean, Bonnafton, white and yellow, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000. Rooted cuttings, \$12.00 per 1000.

50,000 ROSES

Kaiserin, La France, Perle, Hermosa, Clothilde Soupert, Cochet (pink and white), Ivory, 3 in. pots, \$4.50 per 100; \$40.00 per 1000.

5,000 MOON VINES

3-in. pots, \$5.00 per 100; 2 1/2 in., \$3.50 per 100.

10,000 COLEUS

\$2.50 per 100; \$20.00 per 1000

SIX BEST BEDDING VARIETIES

J. D. BRENNEMAN
Box 24 HARRISBURG, PA.

Mention the Florists' Exchange when writing.

PHILADELPHIA ROSES

American Beauties, 4 in., 3 in., 2 1/2 in.
MYERS & SAMTMAN, WYNDMOOR STATION, CHESTNUT HILL PHILADELPHIA, PA.
Mention The Florists' Exchange when writing.

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA, UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000	Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	PERLE VON GODES-	
ROSALIND ORR			BERG	\$5.00 \$40.00
ENGLISH	25.00	200.00	BRIDESMAID	3.00 25.00
LA DETROIT	6.00	50.00	BRIDE	3.00 25.00
AMERICAN BEAUTY	5.00	40.00	IVORY	3.00 25.00
LIBERTY	5.00	45.00	PERLE	3.00 25.00

AMERICAN BEAUTY, bench plants, \$5.00 per 100; \$40.00 per 1000.
All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central
PETER REINBERG, 51 WABASH AV., CHICAGO
Mention the Florists' Exchange when writing.

FOR THE RETAIL FLORIST.

June Wedding Decorations.

In the majority of countries June is considered the ideal month for weddings, and in consequence and for the reason that these United States represent all peoples and climates, the month of roses is a most important time for florists. The days of *carte blanche* orders have gone, and for ever, and even those orders reaching to the thousand dollar mark are few and far between. Nowadays (unless in extremely rare cases, where lives absolute confidence), the people demand estimates, designs and detailed descriptions for the smallest of decorations, and particularly in this month, when flowers can be seen in parks and gardens, there is an unreasonable undervaluation and a consequent demand for abundance. It is imperative, then, to carefully consider how to make our work pay and give pleasure to all.

For some unaccountable reason "green and white" effects are demanded in the majority of church weddings. There is not a particle of reason attached to this fad, except that of imitation, and we regret the custom is being encouraged by those who can and yet are afraid to change it. There are hundreds of aspiring growers throughout the country who seem to ignore the value of a hedge of flowering shrubs, roses or a border of hardy flowers, until they are suddenly called upon to supply blooms for some event in their own locality. It is not too late to prepare for Autumn.

Decorating the Church.

For the church wedding in city or country we need greens. A load or two of cut leaved oak branches, which is pre-eminently the best of greenery, and just for variety sake only we gather a bundle or two of catalpa, maple, sumac or such. Wild smilax, or other vines, are to be had near you. Some tall reed grass or eulalias; then where necessary your pot plants or asparagus vine. We want the largest of white flowers—lots of deutzias, spiræas, hydrangeas, roses, phlox, peonies, iris or any such. All this material is gathered in the morning and not when the sun is hottest.

Of necessity in almost all such work our decorations must be more or less spectacular; they must look well from all sides; but, above all, the best from the front entrance; therefore, we must arrange everything consistently high, and where it will show to best advantage. Our first and best endeavor is on the altar. There we solidly panel the wall, and arch with oak branches, placing a group of palms or a young oak or maple tree at each side and half way to the communion rail. Remember, oak branches to look best must face upward. Our work when finished, while being solid, should not be clumsily so. The idea is to have the altar impressive from the front door. Circumstances demand separate treatment. There are the pillars. These in no case should be covered, but at the top of each arrange a crown of oak, alternating with catalpa or sumac, and from such have long pendants of vines. There is an unlimited field for ingenuity of construction and artistic ability in the treatment of church pillars and archways. In the majority of cases overhanging effects look best, and are most appreciated. To create these we select long branches, or tie short ones and vines on bamboo canes or stout wire. Such can be done before they are placed in position. A connecting garland; that is, a garland attached to whatever constitutes the crown or head-piece, entwined gracefully about the pillar, is connected with the pew-end cluster. Under no circumstances should a pillar, or column, be bound by a clumsy rope-garland as if it were being kept from falling down or running away. Roping a column denotes ignorance of art. Very little material is required for that flat vine-like garland we entwine once or twice 'round the pillar; we wish to suggest that it grow there. Similarity is the mother of modern unappreciativeness; therefore, in the treatment of these pillars, archways or balconies we should display as large a variety of treatment as is consistent with good taste and which emphasizes the beauty of the whole. Tall grasses, such as eulalias, look well gracefully surrounding the columns, their bottom stalks on a level with the top of the pew. Grasses should never be arranged where trees and vines are supposed to reach; they belong at or near the bottom. Tall wood ferns also look charming so placed. Now there are the side windows and wall or roof supports. These all require a lighter treatment—a cluster of foliage and pendant vine here and there to attract and please the eye. The organ loft demands solidity. Your decorations there need not consist of the choicest material, but it must stand out boldly. Very few consider the entrance lobby or the vestry, but they deserve some little consideration.

So far we have only been treating with greenery, the most of which can be done the previous night, leaving grasses or ferns till early morning. Now about flowers. The altar again is first because it is the most important. It all depends on the price, particularly where flowers are used, and, therefore, suggestions only are in order. Hydrangeas are plentiful, and groups of them look well. Lilies can be had, and vases of them are expressive. Certainly some blooms should be put on the altar, but the most of them, and the greatest effect, must occur immediately each side of and at, or over the kneeling-bench, or where the bridal party stands. All eyes are concentrated on this spot most of the time; it is the place for best work, and flowers. Other parts of the decorations can be omitted or omitted altogether, but this particular spot, memorable for a life-time, must be specially treated. A very common mistake is that of placing flowers where they

are lost to view. Put them where they stand out boldly. There can be nothing more beautiful than a vase containing one hundred, or several hundred white roses, they can be of *Bride* or *Golden Gate*, *Ivory*, *Kaiserin Augusta Victoria*, or *Madame Plantier*. Or, we hire or rig up an arbor. First green it over very thin and flat, and then cover it inside and out with branches of climbing roses, foliage showing and branches pleasing themselves in a natural way. If you can induce your customer to permit you to use a light pink, or even a red rose on this particular arbor, it will not only enhance the gowns, but will add greatly to your reputation. And what a great long list of climbing roses we can select from; really decorating now is play toward that of a few years ago. The arbor, or arbors and hedges of roses, and with tall vases attached combined or separate, look well.

Then, again, on a cheaper scale, we can use flowering shrubs, or manufacture standards of flowering shrubs or roses, which can be limited to the altar, or be arranged in unlimited number down the center aisle. From the supply houses can be hired, at very little cost, many contrivances that assist the decorator to carry out his ideas. Among these are the torches, which can be regulated to any height. Young trees are a good substitute for them. Supposing we cut this young tree of one inch, or thereabouts, caliper, pick the leaves off its branches, and in their place we tie long sprays of climbing roses, or even flowering shrubs, we have transformed the maple into a splendid specimen standard tree of roses, or a shrub; from seven to nine feet tall. These we securely fasten to the



WREATH FOR ELKS LODGE, ORANGE, N. J.

Artist, F. C. Read

end of center aisle pews, starting just with the dwarfest, or alternating tall and short. A few sprays of honeysuckle entwined about the stem will add to beauty. Tying bunches of flowers on the end of pews may be permissible in country churches, but is being discontinued in the city, for many reasons. First, the people steal them; or the flowers get entangled with and ruin dresses. We discourage the idea because, while they may look pretty in an empty church, their effect is lost among the myriads of high colored hats and dresses, and furthermore, they cannot be seen but by the few. Aim to have your work show above the heads of the people.

Hedge-row effects of *Azalea mollis*, *rhododendrons* or *hydrangeas* are splendid, but they must be so placed as to be visible when all are seated. Instead of, or in conjunction with, the light garlands of green encircling the pillars, we have roses—not roses wired on to oak foliage, but with their own in natural spray, or wired to climbing rose foliage. At a distance of a few feet you can defy expert growers even to detect a manufactured garland, or tree, if your work is properly done, and it is almost always done best when the least time is consumed. The supreme danger in floral art is studied regularity—the trowel and the chisel are not required in our work.

We have not mentioned ribbons for the good reason that they are out of place at a June wedding decoration, even to partition the reserved pews. For these we have put a loosely arranged bar of roses, with end loops to put over the ends of the pews. Then again, instead of using so much green on balconies, or columns, where we have encouragement and a chance to create something very imposing, in fact, memorably beautiful, we would go to some extensive rose grower, offer him a fair value for his house of roses, which he will soon throw away or to some nurseryman who specializes in climbing roses and get sufficient to turn the interior of the church into a veritable bower of roses or at least to have them constitute the principal feature. Nor need this necessitate such a large expenditure of money as its contemplation may seem to; it is in the waste of time, the purchasing of little trifles unnecessary and inappropriate material that collectively require more money than to go boldly for the clean cut material that "shouts" wherever 'tis put. No use to attempt economy by spreading a limited number of flowers over an extensive area; fifty flowers in one

cluster is in most cases equal to twice that number scattered, therefore, concentration means admiration. Remember when arranging roses in pillar, arbor or trellis design, the blooms and foliage should point upward, and when intended to suspend, they should point downward. A study of natural growths will direct.

Peonies can be used in various ways, but always in clusters. Tie fifty of them on the end of a stick, with finishing trimmings, and they at once form an imposing torch; twenty-five or even twelve of them make an attractive cluster, half way up a column, or as a crown-top. Where they are thus placed they should be reversible bunches—that is, some blooms facing down and finished center.

There will be numerous occasions where, in order to make the job profitable, available stock must be used and so it can be to great advantage; and while even in such cases your customers are exacting, much can be overcome by giving an assurance of a big display. In such cases, greens in plenty will mean much; and if your customers are victims of faddism, and insist on green and white, you can have the altar and center aisle so, and employ color on the sides. Thus, in the windows we may use a variety of colors in iris, using grass tips for foliage. It will not damage those azaleas or rhododendrons to carefully nip off the trusses of bloom. We can wire them on our garlands of wild laurel, or bay, and elegant they look, too. There's that lot of phlox, we can put them anywhere to great advantage (we once covered an altar with such and they talk about it now ten years afterward). Carnations are best fitted for pew-ends, or in immense clusters, just shoulder high on the columns. If you must get your stock from the wholesaler, and the market is full of good, cheap material, there is no need to exact quality at the expense of quantity. As we have previously stated, microscopic material is out of place, and is expensive in every way. If you can induce your customer to have you furnish one grand rose for every one attending the church (they can be handed out at the entrance by flower girls), you will not only further floriculture, but add unlimited pleasure to the event—a sweet souvenir and wish from the bride. Make your bouquets light; heavy ones are not only a nuisance, but are killing the custom. But these and the house decoration we shall leave until next week.

KINVARA.

TALES OF A TRAVELER.

San Antonio, Texas.

The writer had the pleasure of a visit among those of the trade in this town, and found a great deal to interest him.

There are four firms in the flower business in San Antonio, so far as I have been able to discover, and a demand for flowers far in excess of the supply which can be turned out by these several establishments. Labor is a hard problem, and good gardeners are a scarcity.

The firm doing business under the name P. D. Hauser & Son is the largest concern of its kind in this section of the State, and one of the oldest. Some 50,000 feet of glass make up the greenhouses, and a nursery of a couple of acres a few miles out from the city in addition to a nice conveniently arranged store in the heart of the city, complete the equipment. In the houses are some 3,000 rose plants and about 15,000 carnations. Besides this stock a large assortment of bedding plants, palms, and ferns fill the space.

The method of growing roses in this section is a deviation from the usual plan. Planted at least 24x24 inches, the plants are set into the ground and in Summer the roof is entirely removed. Very little staking or tying is done, and the best cutting is through the Winter months. Mr. Hauser, Sr., has charge of the greenhouses and nurseries, while his son attends to the store and the work which comes through this channel.

Situated on the corner of Tenth street are the Maverick greenhouses. Here we have an example of what a woman can do in the greenhouse line, for this place represents the labor of nearly fifteen years. Mrs. Maverick has been the leader here, and through the industry of this lady a good paying business has been developed. The greenhouses consist of about 25,000 feet of glass which, like the other houses of the vicinity, are constructed with a roof which can be removed in the warmest days of Summer, and a greater variety of stock is to be found here. Roses, carnations, palms, ferns, bedding stock, and a large assortment of bulbous stock in pans, make up the assortment from which the customer may select.

There are two other concerns in this thriving town of nearly sixty-five thousand people. The Southern Nursery Company, with Mr. Hensel as leading man, is making itself felt, and a neat store on the principal street attracts many customers; while on another street Mrs. Farrar is claiming a woman's privilege and attracting many of the flower lovers to her establishment.

San Antonio, as a whole, to me represents opportunity. The town is large, and it is growing rapidly. Chicago and St. Louis are points from which shipments are often made, but the distances are great. What the future will bring into this historic old town, which is so rapidly gaining prestige as a Winter resort, remains to be seen, and the future must decide it. A live, energetic grower, who can adapt himself to circumstances, might find here in the Southwest the opportunity which has so long eluded him; but whatever and whoever the man may be he must not wait for fortune to come to him, but take the dare of the old border heroes, and "come and take it."

W. R. PIERSON.

LIST OF ADVERTISERS

Table listing various florists and their addresses, including Abercromby A., Allen J. K., Anderson & Christensen, etc.

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Contents.

Table listing various articles and their page numbers, including Books Received, Bowling, Carnations, etc.

ASTER PLANTS Queen of the Market. Semple's, fine branching, fine J. C. SCHMIDT CO., Bristol, Pa.

ROOTED CUTTINGS

LAST CALL Strong stock, prepaid. Ageratum, Ornney, 60c. per 100. Olant Marguerite Daisy, white, 75c. per 100.

BYER FLORAL CO., Shippensburg, Pa. Mention the Florists' Exchange when writing.

VERBENA

Mammoth, 2 in., \$1.50 per 100. Per 100 Scarlet Sage, 2 in., \$1.50 per 100. Doubled Fringed Petunias, 2 in., 2.00.

E. I. RAWLINGS, QUAKERTOWN, Pa. Mention the Florists' Exchange when writing.

GERANIUMS 4 in. pots, \$3.00 per 100. Salvia Splendens and Bonfire, 3 1/2 in. pots, \$4.00; 2 1/2 in. pots, \$2.00 per 100.

JOHN RECK & SON, Bridgeport, Conn. Mention the Florists' Exchange when writing.

ICYCLAMEN

Splendens Giganteum Hybrids Finest strain in the world, in five true colors, extra well-grown plants, from 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.

CYCLAMEN Giganteum Fimbriatum (the new fringed variety), from 2 1/2 in. pots, \$6.00 per 100; from 3 in. pots, \$8.00 per 100.

PAUL MADER, East Stroudsburg, Pa. Mention the Florists' Exchange when writing.

ASTERS Pot

Giant Parity, Hohenzollern, Cream and dark blue, Semple's white, pink and purple, 2 in. pots \$1.00 \$2.00. Ager, from seed bed, by mail .40 2.50.

GEORGE J. HUGHES, Berlin, N. Y. Mention the Florists' Exchange when writing.

PLANTS for Vases and Baskets

ASPARAGUS SPRENGERI, Large, bushy plants with many long vines, from 3-in. pots, \$5.00 per 100; extra fine, from 4-in. pots, \$8.00 per 100.

NATHAN SMITH & SON ADRIAN, MICH. Mention the Florists' Exchange when writing.

Bedding Plants

Geraniums, scarlet and pink varieties, the newest and best bedders, 4 in. pots, in bud, and bloom, \$8.00 per 100.

C. LAWRTZEN Rhinebeck-on-Hudson, N. Y. Mention the Florists' Exchange when writing.

INBUD AND BLOOM

Geraniums, S. A. Nutt, 3 1/2 in. pots, \$5.00 per 100; Rose Geraniums, 3 1/2 in. pots, \$5.00 per 100.

GERANIUMS

IN BUD AND BLOOM A. Ricard, S. A. Nutt, M. Chavellerre, F. Perkins, Marvel, Mrs. Landry, Jean Vieux, etc., 4 in. plants, \$3.00 per 100.

CHRYSANTHEMUMS

Lord Hopetonn, Ben Walls, Et. Bonnefond, Cecil Clark, Vivian J. Wood, Wm. Dunham, etc., 4 in. plants, \$3.00 per 100.

The Beautiful Pink Carnation
CANDACE

Dissemination 1006, \$2.00 per doz., \$12.00er 10 0
\$100.00 per 1000. Early—commercial.
Indianapolis Flower and Plant Co.
and John Hartje, Indianapolis Ind.
Mention the Florists' Exchange when writing.

ROBT. C. PYE
Carnations

NYACK, N. Y.
Mention the Florists' Exchange when writing.

J. D. THOMPSON
CARNATION CO.
JOLIET, ILL.

Carnations Our Specialty
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The Lewis Conservatories
MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist
Mention the Florists' Exchange when writing.

Carnations
F. DORNER & SONS CO.
LA FAYETTE, IND.

Mention the Florists' Exchange when writing.

RED SPORT
The Great Christmas "Hollyberry" red Carna-
tion. Most profitable red ever introduced, and
an easy-doer, everybody can successfully grow
it. Strong plants from 2 1/4 in. pots, ready to
plant in field or on bench inside. \$6.00 per 100;
\$50.00 per 1000.

A. B. DAVIS & SON, Carnation Specialist.
PURCELLVILLE, VA.
Mention the Florists' Exchange when writing.

CHICAGO CARNATION CO.
JOLIET, ILL.

Ours plants are now in the field.
Write us for Fall delivery.
Mention the Florists' Exchange when writing.

CARNATIONS
Chrysanthemums and Violets
Rooted Cuttings. Send for List

WILLIAM SWAYNE, P. O. Box 226, Pa.
Kennett Square, Pa.
Mention the Florists' Exchange when writing.

25,000
Geraniums

In bud and bloom. S. A. Nutt, Beate Poitevine,
Alphonse Ricard, double white, 4 in. pots, \$6.50
per 100; \$60.00 per 1000.
DOUBLE PETUNIA 4 in. pots, \$8.00
per 100.
COLEUS Verschaffeltii and Golden Bedder,
2 1/2 pots, \$2.00 per 100; \$18.00 per 1000.
ENGLISH IVY 4 in. pots, 3 to 4 feet high,
\$10.00 and \$8.00 per 100.

A. N. TOWELL, West 200th St. and
Fort Washington Av.
NEW YORK CITY
Mention the Florists' Exchange when writing.



We have just passed through one of the wettest Mays on record in this vicinity. Until the 10th of the month, the weather was fine for planting carnations in the field. Then it began to rain, and during the next eight days it rained every day, except one; 4.4 inches of rain fell during that time; 2.2 inches falling in one night. This is just double the normal amount of rain for the month of May, in this vicinity.

Most growers were about finished planting in the field, and the plants suffered to some extent from the effects of the unusually heavy rains; the man who had his carnation field well drained was fortunate, indeed. I saw a carnation field that was partly under water for three days, when two men with a spade and a shovel could have made a ditch in one day along the end of that field and drained the water to the road, where there was a large ditch, with plenty of drop, to take the water from a field many times as large as the one mentioned. Still this man's carnations were being drowned, because the water had no way to get out of the field and because there was a few hours' work between it and the ditch, through which it would run had it had an outlet. At the present time that field looks as if it were just recovering from a severe attack of yellow fever.

In planting carnations in the field always see to it that it is well drained and that the ditches are kept open; then if it happens to be a wet season you are on the safe side, and if it be a dry one, there is no harm done. Still there is no serious damage done as yet, and if the weather continues nice, the plants will outgrow the effects of the recent heavy rains.

Keep the cultivators going, and if possible cultivate both lengthwise and crosswise, and there will be very little hoeing to be done, as the cultivator will kill all the weeds, except a few right around the plants. Some say cultivate after each rain, as soon as the soil is dry enough. I advise cultivating every week, whether it rains or not. This constant cultivating keeps the soil loose on top, and it acts as a mulch preventing the soil drying out underneath. I prefer constant cultivating (going over the field once a week), to watering in the field. The plants may not make as fast a growth as if they were watered, but it will be a good healthy, hardy growth, and they will transplant easily, recovering quicker than if the growth is soft, and they will make up for lost time as soon as planted inside.

Go over the plants once a week and top all the shoots that are beginning to run to bud. Do not wait until they are in bloom before pinching them back.

If you have your soil pile prepared for putting in the house, well and good, if not, it should be attended to at once. Have the soil piled at places where it is convenient for use. Make the piles about three feet high, and put a foot or a foot and a half of manure on top of the pile; then turn the pile over, chopping the soil and manure up fine as you turn it. In this way the soil and manure are thoroughly mixed without the trouble of layering.

The compost is ready for use any time after it is turned, although I prefer to let it lie a few weeks, if possible. Do not be afraid to use fresh manure on the soil pile, as it will not hurt the carnations and is better than old rotten manure for mixing with soil for the benches. If you use bone meal, wait until the soil is on the benches before spreading it; you will then be sure that it is spread evenly, and it

TELEGRAPH

Will be the Most Popular Geranium and Leading Standard Next Season

EVERY Florist growing bedding stock, or Christmas pot plants, should have **Telegraph** in stock. Its color (brilliant scarlet cerise), large truss and profuse blooming qualities, make it a desirable Christmas pot plant. Acknowledged the best all-around geranium on the market.

Extra strong plants, ready to plant out, \$8.00 per 100, while present stock lasts.

CASH WITH ORDER, PLEASE

THOMAS DEVOY & SON, Poughkeepsie, N. Y.

Mention The Florists' Exchange when writing.

will be ready for use by the time the plants need it.

Keep the old plants shaded and feed them regularly, if you want good flowers during the Summer. Watch the watering; do not allow the plants to become so dry that the soil will be full of cracks. If you do, it will be hard to soak them up again, and a large percentage of the water intended for the plants will run through the cracks without wetting the soil thoroughly.

Do not let red spiders or thrips get the start of you; keep after them constantly. The former is easily kept down with the hose; and Nicotolide makes it decidedly uncomfortable for the latter.

G. W. FRENCH.

GERANIUMS

Extra large plants from 4 in. pots, in bud and bloom.
Double General Grant, John Doyle, S. A. Nutt and Jerome, \$8.00 per 100.

S. J. REUTER, Westerly, R. I.

Mention the Florists' Exchange when writing.

200,000 Bedding Plants

At Reduced Prices

First Class Stock that will please

Geraniums. Nutt, Double Gen. Grant, Ricard, Poitevine, Buchner, Perkins, Castellane, Strong 3 to 4 in., in bud and bloom, \$3.00 to \$4.50 per 100. **Verbenas,** most in bloom, 2 to 3 in., \$1.00 to \$2.00 per 100. **Ageratum, Lobelia,** strong, 2 in., \$1.25 per 100. **Coleus, Verschaffeltii,** yellow, and fancy mixed. **Alternantheras,** red and yellow. **German Ivy,** strong, 2 in., \$1.50 per 100. **Bezonis Vernon,** red, pink, white, 2 to 3 in., \$2.00 to \$3.50 per 100. **Colven Scandin,** 3 in., \$5.00 per 100. **Cannas, French mixed,** \$4.00 per 100. **Salvia Bonfire and Splendens,** extra strong, 2, 3, 4 in., \$1.25, \$2.00, \$3.00 per 100; \$10.00, \$16.00, \$25.00 per 1000. **Dracena Indiviana,** strong, 4-5 in., \$6.00 and \$12.00 per 100. CASH.

WM. HERZOC, Morris Plains, N. J.

Mention the Florists' Exchange when writing.

Carnations, Cannas, etc.
SPEAK QUICK

20,000 fine, strong **Carnation Plants,** from flats, ready to plant, now hardened off outside: **Queen Louise,** \$20.00 per 1000; **Jocet,** \$15.00 per 1000; **Prosperity,** \$2.00 per 100. 100 or over at 100 rates.

10,000 fine potted **Cannas,** well established, price, \$1.00 per doz.; \$6.00 per 100. **Shenandoah, David Harum, Crimson Bedder, Mme. Crozy, Florence Vaughan, Pennsylvanias, Ohns, Henderson, Duke Marlborough, Souv. de A. Crozy, Rosemaur Pink, Alesee, and Gloriosa.** 2 1/2 ft.; **Gilt Edge,** for outside row; **Black Beauty,** 8c.

Dormant Cannas for massing, not named, \$1.60 per 100.

1000 Boston Ferns, 2 1/2 in., 4c.
1000 Scotch, 6 in., \$1.00 each; 2 1/2 in., 20c.
1000 Pteronis, 3 in., 10c.
1000 Geraniums, assorted colors, 3 1/2 in., 5c.; 2 1/2 in., \$2.50 per 100.
1000 Heliotrope, dark and light, 2 1/2c.
2000 Verbenas, pot 2c.; slate 1c.
1000 Shasta Daisy, Scarlet Sage, and **Ageratum,** 2 1/2 in., 2c.
1000 Clematis Paniculata, 3 year, 10c.
500 English Ivy, field-grown, long tips, 8c.
1000 Ampelopsis Veltchii, 2 year, field-grown, 8c.
1000 Ampelopsis Veltchii, pot-grown, dormant, long tips, 4c.
1000 Vincen major, var., 4 in., 8c.; 2 1/2 in., 3c.
1000 Honeysuckle Haloana and Golden, field-stock, 6c.
5000 Chrysanthemums, Dr. Enguebard and Duokham, 5c.
Pacific, Polly Rose, Eaton, Appleton, etc., \$2.25 per 100.

Cash, please, or C. O. D.

BENJ. CONNELL, West Grove, Pa.
Mention the Florists' Exchange when writing.

SWEET WILLIAM

Fine plants, in bud and bloom, 3 in. pots, 4c. **Coreopsis Lanceolata Grandiflora,** 2 1/4 in. pots, 4c.
Canterbury Bell, 3 in., strong plants, 4c.
Foxglove, 3 in. pots, assorted colors, 4c.
Hardy Chrysanthemums, extra fine plants in 3 in. pots, pink, white, red, yellow, etc., 5c.
Holly Ferns, Cyrtomium Falcatum, nice stock, 2 in., 5c.

Cash, please

R. G. HANFORD, Norwalk, Conn.

Mention the Florists' Exchange when writing.

GERANIUMS
Fine plants, mixed colors, from 3 1/4 in. pots, \$8.50 per 100. Cash with order.
LEONARD COUSINS, JR., CONCORD JUNCTION, MASS.

Mention the Florists' Exchange when writing.

GERANIUMS

BEST standard varieties, in bud and bloom, for immediate sale; stocky plants; state colors wanted; from 4 in. pots, \$6.00 per 100, 3 in. \$4.00 per 100. **Salvias (Scarlet Sage),** low growing, ever-blooming variety; fine plants in bloom for immediate sale, 4 in., \$8.00 per 100; 3 in., \$4.00 per 100; 2 1/4 in., \$2.50 per 100. Cash with order.

Baur Floral Co., Erie, Penn.

Mention the Florists' Exchange when writing.

25,000 GERANIUMS

Extra fine plants, S. A. Nutt, A. Ricard, Poitevine, Gloire de France, and other good varieties, 3 1/4 in. pots, \$9.00 per 100; 4 in. pots \$7.00 per 100.

Cash with order.

W. C. STICKEL,
Magoun St., NORTH CAMBRIDGE, MASS.

Mention the Florists' Exchange when writing.

GERANIUMS

S. A. Nutt, Ricard, Poitevine, Double Gen. Grant, 2 1/2 in., \$20.00 per 1000. Rooted cuttings, Nutt, Ricard, Poitevine, Double Gen. Grant, Buchner, Bruanti, \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Mention the Florists' Exchange when writing.

GERANIUMS
In Bud and Bloom

S. A. Nutt, Beate Poitevine, La Favorite, Bruanti, R. Bretl, several other varieties, \$6.00 per 100; \$60.00 per 1000.

Fuchsias, in bloom, 4 in. pots, \$8.00 per 100. **Heliotrope,** in bloom, \$8.00 per 100. **Salvia,** in variety, \$5.00 per 100. **Cannas,** Queen Charlotte, green leaved, and **Robusta,** red leaved, \$8.00 per 100. **English Ivy,** 3 in. pots, \$3.00 per 100. **Feverfew,** 2 1/4 in. pots, \$3.50 per 100; 4 in. stock, \$4.00 per 100. **Blue Lobelia,** 2 1/4 in. pots, \$2.50 per 100. **Double Petunias,** 4 in. pots, \$8.00 per 100. **Hydrangeas,** 4 in. pots, \$8.00 per 100. **Coleus,** rooted cuttings, Golden Bedder and **Verschaffeltii,** 60c. per 100; \$5.00 per 1000; 2 1/4 in. pots, \$2.00 per 100.

At above prices the selection to remain with us.

Cash must accompany the order.
J. E. FELTHOUSEN, Sohensotady, N. Y.

Mention the Florists' Exchange when writing.

SCOTTII

See my advt. in last issue, page 701.

JOHN SCOTT, Keap Street, Brooklyn, N. Y.
Branch: E. 45th St. and Rulland Rd., Flalbusch
Telephone, 1207 Williamsburg.
Mention the Florists' Exchange when writing.

ASPARAGUS SPRENGERI

Extra strong 2 in., ready to shift or plant in benches, \$2.50 per 100; \$20.00 per 1000. Sample, 5 cts.

SURPLUS DAHLIAS \$3.00 per 100. Best kinds.

DEAN FERRIS, Peekskill, N. Y.
Mention The Florists' Exchange when writing.

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Arrived in superb condition, direct from the woods, the following Orchids: Cattleya Labiata, Cattleya Dowiana, Cattleya Warneri, Lelia flava, Miltonia Candida, Dendrobium Chrysothoux and Burlingtonia fragrans. Write for special list, also for Catalogue of established Orchids.

LAGER & HURRELL, Summit, N. J.
Orchid Growers and Importers
Mention the Florists' Exchange when writing.

ASPARAGUS PLUMOSUS

Nice stock from 2 1/2 in. pots, \$2.25 per 100; \$20.00 per 1000; not less than 500 at 1000 rates.

W. W. COLES, Kokomo, Ind.

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ORCHIDS

FLORISTS' ORCHIDS

Largest Importers, Exporters, Growers and Hybridizers in the world.

SANDER & SONS, St. Albans, England
Agent, A. Dimmock, 31 Barclay St., N. Y. City.
Mention the Florists' Exchange when writing.

McFADDEN'S ASPARAGUS

42 HOUSES 100,000 PLANTS

Sprays or Strings in any quantity

EMERSON C. McFADDEN
Tel. 28 A SHORT HILLS, N. J.
Mention the Florists' Exchange when writing.

PALMS

For Decorating
and Growing On
for Fall Trade

I have the Largest and Best Stock of **Kentias** that I have ever offered, in all sizes. Home-Grown and Healthy. They are exceedingly good value at prices quoted.



KENTIA BELMOREANA

		Per doz.	Per 100	
3 inch pots.....	4 to 5 leaves.....	12 to 15 inches high.....	\$2.00	\$15.00
4 " "	5 to 6 "	15 to 18 " "	4.50	35.00
5 " "	6 to 7 "	18 to 20 " "	6.00	50.00
5 " "	6 to 7 "	20 to 22 " "	9.00	70.00
6 " "	6 to 7 "	22 to 26 " "	\$1.00	\$12.00
6 " "	6 to 7 "	28 to 30 " "	1.25	15.00
6 " "	6 to 7 "	30 to 36 " "	1.50	18.00
8 " "	6 to 7 "	34 to 36 " "	2.50	30.00
9 " "	6 to 7 "	42 to 48 " "	5.00	

KENTIA FORSTERIANA

		Per doz.	Per 100	
3 inch pots.....	5 leaves.....	12 to 15 inches high.....	\$2.00	\$15.00
4 " "	5 to 6 leaves....	12 to 18 " "	4.00	30.00
6 " "	5 to 6 leaves....	28 to 30 " "	Each	Per doz.
6 " "	6 leaves.....	30 to 32 " "	1.25	12.00
6 " "	6 "	32 to 36 " "	1.50	15.00
6 " "	6 "		1.50	18.00

MADE-UP KENTIA FORSTERIANA

7 inch pots.....	4 plants in pot.....	32 inches high.....	Each, \$2.00
8 " "	4 "	36 "	" 2.50
12 inch tubs.....	4 plants in tub.....	6 feet high, very bushy.....	" 12.50
12 " "	4 "	6 to 7 feet high, very lushy...	" 15.00

All measurements from top of pot in natural position.

JOSEPH HEACOCK, Wyncote, Pa.

Mention the Florists' Exchange when writing.

FERNS A good variety of the right kinds for filling fern dishes, etc., 2 1/2 inch, \$3.00 per 100; \$25.00 per 1000.

DRACÆNA INDIVISA 6 in., 35c. and 50c. each; 4 inch, \$10.00 per 100.

Mme. Sallerol Geraniums, Coleus, Salvia Splendens 2 1/2 in., \$2.00 per 100.

SALVIA, from flats, \$1.00 per 100.

H. WESTON, Hempstead, N. Y.

Mention the Florists' Exchange when writing.

Cyclamen Plants Seed of only selected flowers and well built stock. None better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000.

C. WINTERICH, DEFIANCE, OHIO

Mention the Florists' Exchange when writing.

FERNS OUR SPECIALTY

Assorted Ferns for Jardinieres. We have a fine lot of these Ferns in all the best varieties ready for immediate use from 2 1/2 in. pots at \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FERN SEEDLINGS

We are booking orders now for June delivery at \$1.00 per 100; \$5.50 per 1000.

ANDERSON & CHRISTENSEN
Telephone 14 F Short Hills, N. J.

Mention the Florists' Exchange when writing.

Araucaria Excelsa

From \$1.25 to \$2.00 each.

Kentia Belmoreana, from 50c. to \$5.00 each. Rubber Plants, from \$6.00 per doz. up.

WM. A. BOCK, No. Cambridge, Mass.

Mention the Florists' Exchange when writing.

BOSTON FERNS

Palms, Dracænas
Geraniums, Coleus

and general bedding stock in large quantities. Write for prices. Cash or references.

L. H. FOSTERESTATE, 45 King Street, Dorchester, Mass.

Mention the Florists' Exchange when writing.

PALMS AND FERNS

Boston Ferns, 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000; Pteroni and Boston Ferns, 6 in., \$50.00 per 100; 7 in., \$1.00 each, Larger plants from \$1.50 upward. Ferns in variety, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000. Latania Borbonica, 3 in. pots, \$5.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up.

Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Areca Lutescens, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants, from \$1.50 up.

Pandanus Utilis, 1 in. pots, 60c. Dracena Indivisa, 5 in. pots, \$16.00 per 100. Phoenix Rectinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$9.00 per doz. Larger plants from \$1.00 up. Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa.

Mention the Florists' Exchange when writing.

FRESH IMPORTATION OF

Cattleya Trianae and Gigas

WRITE FOR PRICES

THOMAS JONES, Short Hills, N. J.

Mention the Florists' Exchange when writing.

Nephrolepis Barrowsii

\$25.00 per 100.

BOSTON FERNS \$3.00 per 100.

SCOTTII " 10.00 per 100.

Strong 2 1/2 inch stock, from bench.

See display advt. in last issue, page 651.

HENRY H. BARROWS & SON WHITMAN, MASS.

Mention the Florists' Exchange when writing.

A Few Good Things You Want

A nice lot of made-up KENTIA PALMS in 8 in. and 9 in. pots at \$3.00 to \$5.00 each. Splendid plants for decoration.

Dracena Indivisa, 2, 4 and 6 in., \$5.00, \$10.00 and \$25.00 per 100.

Asparagus Plumosus, 3 in., \$5.00 per 100. Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.

Geraniums, S. A. Nutt, Castellana, John Doyle, Perkins, Mme. Sallerol, Single and Double Gen. Grant, La Favorite, 2 in. pots, \$2.50 per 100; 3 in. pots, \$5.00 per 100.

Vinca Var., 2 in., \$2.00 per 100. Gladiolus Bulbs, fine mixture, 75c. per 100, \$8.00 per 1000.

English Ivy, nice vines, \$5.00 per 100. German Ivy, 2 in., \$2.50 per 100.

Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotropes, Double and Single Petunia, Coleus, red and yellow; Ageratum, blue; Alternanthera, red and yellow; Cigar Plant, 2 in. pots, \$2.00 per 100.

Cannas, red and yellow, and var., 3 in. pots, \$5.00 per 100.

Vinca Var., 3 in., \$4.00 per 100. Boston Ferns, 6 in., 50c. each. Cash with order.

GEO. M. EMMANS, Newton, N. J.

Mention the Florists' Exchange when writing.

Decoration Day is now over.

BE WIDE AWAKE

Fill your empty houses with something that will yield you 200 per cent. profit on your investment.

GODFREY ASCHMANN'S

ARAUCARIA EXCELSA

will do it.



The last shipment for the summer, per steamer Oxonia, arrived in Philadelphia, May 30, from Belgium. Grown there expressly for me, under contract, by an Araucaria specialist. 5000 of the choicest plants, better and shapelier than ever before, are now growing in my greenhouses. I herewith quote you special prices on them. Just look.

10 to 12 ins. high, 2-yr. old, 3 tiers.....\$0.50
12 to 14 ins. high, 3 to 4 tiers..... .60
14 to 16 ins. high, 3-yr., 3 to 4 tiers..... .75
18 to 20 ins., 3-yr., 4 to 5 tiers..... 1.00

Araucaria Compacta Robusta, unusually large, very beautiful, from \$1.25 to \$1.50 each. Glaucia, 75c. to \$1.00 each.

Kentia Forsteriana, 30 to 36 in. high, 4-yr. old, \$1.00; 4-yr. old, 25 to 30 in. high, 75c. Belmoreana, 4-yr. old, 25 to 30 in. high, \$1.00 each. Above are the sizes entered in the Philadelphia Customs House.

Ficus Elastica, imported, 4-in. pots, 25c.; ready June 1st.

BEDDING PLANTS

Geraniums, 4 in. white and mixed varieties, \$7.00 per 100.

Cannas, heat aorta, 4-in. pots, \$7.00 per 100.

Scarlet Sage, Clara Badman, and Begonia

Vernon, red and pink, 4 in., \$7.00 per 100.

Heliotrope, blue, 4 in., \$6.00 per 100.

All goods must travel at purchaser's risk. Cash with order, please.

GODFREY ASCHMANN, 1012 ONTARIO STREET, PHILADELPHIA, PA.

WHOLESALE GROWER AND IMPORTER OF POT PLANTS

Mention the Florists' Exchange when writing.

DON'T FORGET THAT I AM THE MOON-VINE GROWER OF THE LAND.

A. W. Smith's Hybrid Moon-Vine, Ipomoea Noctiflora, is the one I grow exclusively. It is the only true Moon-Vine in America. Mr. Smith has a world-wide reputation for growing the best Moon-Vine seed. Please bear in mind that this is no Morning Glory, like some sell for Moon-Vines, but the pure white, waxy Moon-Flower, as large as saucers, 2 1/2 in., \$5.00 per 100; 3 in., \$7.00 per 100; 4 in., \$10.00 per 100. Nicely staked up.

Cobean Scandens, 4 in., very large, \$7.00 per 100
Coleus, Verschaffeltii, Golden Bedder, Queen Victoria \$2.50 per 100.
Verbenas, \$2.50 per 100.
Petunias, variegated, \$2.50 per 100; California Giant, 3-in. pots, \$4.00 per 100.
Ageratum, blue, 3 in., \$3.00 per 100.
Scarlet Sage, Clara Badman, 3 in., \$4.00 per 100.

FOUNDED IN 1888



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Seedsmen and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 729.

News of the Week in Brief.

A list of the gladioli planted by the Department of Agriculture, at Washington, D. C., appears on page 733.

Luther Burbank has obtained a new dwarf yellow calla, with a deeper coloring than that of existing kinds.

Our obituary this week contains the names of Henry Flammer, W. S. Davis, Mrs. Joseph Meehan, and others.

The American Carnation Society will hold its annual meeting and exhibition in Boston on January 24 and 25, 1906.

There is nothing in the reported organization of New York's wholesale florists, announced last week by a contemporary.

Geraniums sold in the New York Plant Market at \$1.50 per dozen for Decoration Day; all available plants were disposed of.

Plans of the floor space available for the S. A. F. trade exhibit have been prepared by Superintendent George Cooke, Washington. Applications from intending exhibitors are coming in fast.

President J. C. Vaughan, of the S. A. F., entertained a number of California florists and gardeners at Los Angeles last week. Mr. Vaughan himself was the guest of the civic authorities and others of Long Beach, Cal., at a luncheon.

The wife of Henry Standen, a florist of Haverford, Pa., has recovered a verdict of \$15,000 from the Pennsylvania Railroad as damages for injuries received. Mr. Standen was awarded by the same jury \$10,000 to compensate him for the loss of his wife's services, and reimburse him for medical expenses.

The premium list of the second annual exhibition of the American Peony Society has been issued. The show will be held in the banquet hall, Auditorium Hotel, Chicago, June 16 and 17. J. B. Deamud, 51 and 53 Wabash avenue, is the manager. Some very enticing prizes are offered, both in the commercial and amateur classes, and a large and fine display is looked for. Interested parties can secure copies of the premium list, with which is also embodied two reports of the Nomenclature Committee, by addressing Secretary Arthur H. Fewkes, Newton Highlands, Mass. C. W. Ward, of Queens, N. Y., is president of the society.

Convention Notes.

WASHINGTON, D. C.—George Cooke, chairman of hall committee and exhibits, has the plans of the floor space available, and intending exhibitors would do well not to delay their applications for space, as the demand is growing daily.

M. C.

BOOKS RECEIVED.

THE GOLD MINE IN THE FRONT YARD, AND HOW TO WORK IT. By C. S. Harrison, York, Nebraska. Price, \$1.00.

This unique title Mr. Harrison has selected for an entertaining and instructive book in which he informs his readers, particularly those of the Western States, that something equally valuable with the yellow metal is found in the care and cultivation of a home garden, a portion of the farms of the West that is at the present time sadly neglected, he says. He enumerates and describes, in his own way, the subjects he has found most suitable for this purpose (those that will withstand the trying climate of the West) after years of experience and experiment, and gives cultural directions necessary to success. Suggestions for the layout of the garden are provided, the author preferring, as the most natural plan, the "amphitheater." Very full and useful are the remarks on the lilac, snowball, spiraea, honeysuckle, dahlia, and other plants. A large portion of the matter contained in "The Peony Manual," recently published by Mr. Harrison, he has, with some additions, incorporated in the present work, giving thereto an added value. It is somewhat unfortunate, though, that so many misspelled names of plants have been allowed to go through—not on account of ignorance of the correct orthography, evidently, as many of those wrongly spelled in places, appear with the proper designations in others; but the fault lies with the proofreader, apparently, the typographical errors having also escaped the eye of the venerable author, who is now 72 years of age. Despite this drawback, there is a host of practical information supplied, in a style that makes the volume quite readable and enjoyable. In one of his chapters the author inveighs against dogs being kept where flowers and plants are grown. He says: "I heard J. W. Manning, the leading horticulturist of Massachusetts, say to the Horticultural Society of Boston that 'dogs ruined more evergreens and choice shrubs than all other causes combined.' The dog, like death, loves a shining mark, and his peculiar system of irrigation is death. So if you are bound to cultivate dogs, you might as well give up flowers."

Copies of the book can be obtained from the author, or through The Florists' Exchange, at the price named.

President S. A. F. Vaughan in California.

On May 22 President J. C. Vaughan of the S. A. F. O. H. visited his old friend, T. J. Corbrey, formerly of Chicago, now of Long Beach, Cal., where he raises aster and pansy seed for the Eastern markets. Mr. Corbrey and a number of representatives of the city government, the Board of Trade and the newspapers met the distinguished visitor at "The Willows," going thither in automobiles. Mr. Vaughan was then taken as the guest of Mr. Corbrey and the city and entertained with a ride to Signal Hill and over the city. At noon he was taken to lunch at the Hotel Julian, and while in the city met a number of prominent citizens.

After the luncheon was over Mr. Hatch arose and requested J. A. Miller to speak very briefly of the growth of Long Beach for the benefit of the guest of honor, who was then called upon to reply. The latter gave a short talk concerning the flower industry and its growth within the past few years in the United States. Within that length of time three magazines with a considerable circulation have sprung into existence, where there had not hitherto been support for one. The organization of societies interested in these subjects has been facilitated and a wide diversity of subjects are now considered, among which is the advocacy of a plan to include within the public school system a systematic training in the care of a garden.

Mr. Vaughan said he looked upon civic improvement or beautifying a city as a subject of great importance, and particularly in such a city as Long Beach. He urged the plan of planting tropical trees and shrubs to give the tropical effect, rather than others. He believes that Southern California has a still brighter future, both in seed and bulb industry, and in the matter of cut flowers. He expressed himself of the opinion that the market for cut flowers will improve as the population increases.

Society of American Florists and Ornamental Horticulturists.

Railroad Rates to Washington.

The Southeastern Passenger Association, which controls the territory south of the Ohio and Potomac and east of the Mississippi rivers, has authorized a rate of one and one-third fare on certificate plan, in co-operation with rate announced by Trunk Line Association, for persons attending the S. A. F. convention at Washington, D. C., August 15-18, 1905.

WM. J. STEWART, Secretary.

OUR READERS' VIEWS

Fruit Under Glass.

Editor Florists' Exchange:

Surprises are in store for us all, at times. I notice in your last week's issue, Mr. Corfield is surprised. In writing fruit notes from time to time, it was never my aim to give advice to anyone farther advanced and of wider experience than myself. That would, naturally, be a waste of time. I would rather that my humble notes helped along the less fortunate; I mean those who just grow a few grapes and peaches. To grow grapes "by the ton," and peaches "by the bushel," I am aware, calls for a man well up in this line, to handle them successfully. No doubt Mr. Corfield has had wide experience in fruit-growing, both in the Channel Islands and in England; but what has that got to do with our climate here? I am inclined to believe our friend's experience in the United States is limited as regards fruit culture under glass. Don't think for one moment that what is suitable for England also applies here. I have been through the mill, and know from experience that it doesn't.

I can see plainly that Mr. Corfield does not approve of my method of culture. I don't blame him. Seventeen years ago, if I had had a chance to read an article similar to the one he refers to, I should have been apt to pass a few remarks on the same, at least mentally if not otherwise.

There are a few things in Mr. Corfield's letter that I shall endeavor to answer, as plainly as possible, which responses will be based on American experience. He is surprised that I should advocate training peaches and nectarines crosswise the house, in preference to what is known as the "fan system." What name is there for planting crosswise? This is what I claim to be a perfect, fan-trained tree. Have you tried the system here? If not, do so the first opportunity, and be convinced which is the more practical for our climate. I may state that I am not writing on theory; but giving hard facts. While now I am growing all our peaches and nectarines, planted in the border, crosswise the house, I also had seven years' American experience growing them fan-shape, up to the glass; or, to be plain, training the trees on trellis about 18 inches from the glass. Having tested the two methods thoroughly, I can say, without the question of a doubt, by all means plant crosswise the house, if you want to make the most of your space. Just to satisfy my curiosity, I figured up the square feet available in our peach houses, and I find that by the method advocated by Mr. Corfield, I would have 3,600 square feet, while by the method I advocate, and the way the trees are planted, I have a trellis space of 5,148 square feet. Each trellis is 18 feet wide, 13 feet high, giving me 234 square feet to each tree; and there are 22 trees. Those trellises are about 6 feet apart. And I still stand by my notes; this gives me a much lighter house, certainly a more attractive one, and the trees are easier to handle. Take a span roof house, such as ours, 25 feet wide; have your peaches trained up to the roof, and what have you got? A house full of emptiness. As I said, give me the crosswise system. But bear in mind, I am not writing for the Channel Islands, nor for England; my notes are intended for this climate.

Mr. Corfield says he would warn your readers against adopting this system without further investigation. I would strongly advise him to get better acquainted with the method of fruit growing here; mix a little with the growers of fruit under glass, then he will be convinced that growing crosswise is not so bad after all. I would be only too pleased to show him around here at any time; we have the trees, also the material on them. The peach trees I referred to in my notes have been planted three and a half years; they are carrying an average crop this season of 250 fruits to a tree, all well developed. Why should I condemn the system?

In regard to flavor I consider I made my views on that subject pretty clear. Give the trees all the air possible; when the temperature goes above 75 degrees keep a drier atmosphere. Never water a tree if it can be avoided after the fruit starts to ripen, and stop the spraying. Whoever follows this advice I will warrant the flavor of his fruit will surpass that of the turnip.

I think my comment on Canon Hall Muscat grape was that it is a noble grape, having the finest flavor of all the Muscat family; but, unfortunately, its poor setting qualities has killed it. That should be equivalent to saying that I did not have the secret of getting it to set freely. I wish I could say that I knew how.

As regards the bloom on the berries, until I am better enlightened on this matter, I hesitate venturing an opinion; but will say if the bloom is once removed it will require a great many discussions to replace it. It can't be done.

WM. TURNER.

Editor Florists' Exchange:

In your issue of May 27, I note that A. J. Corfield criticises William Turner and his system of training peach and nectarine trees. I have been intimately connected with fruit growers in England, Canada and the United States, and my experience with these fruits covers a period of nearly forty years, during which time I have grown them under all systems. The system at present adopted, which I consider the best, up-to-date, and which a progressive man will adopt, is fan training crosswise of the house. I heartily endorse Mr. Turner's system.

Penna. 11

WM. TRICKER.

John G. Esler Refuses the Medal Honor.

MY DEAR JOB.—I am awfully grateful to think you have placed me in the medal class; but please give my medal to Brother Rudd. He is the father of the Ananias Society, an honorable body, to which every true horticulturist, including Job, and all fishermen, are eligible to membership. JOHN G. ESLER.

John Birnie's Wish

Editor Florists' Exchange:

I am obliged to Job for placing me in the medal class; but I wish for that wooden medal he would substitute a load of bench lumber.

JOHN BIRNIE.

Obituary

Carl F. Wagner.

Carl F. Wagner, a market gardener near Louisville, Ky., died May 17 of Bright's disease after a year's illness. He was a native of Germany, but had been a resident of Jefferson County more than forty years. He is survived by his wife, seven sons and two daughters.

John Linn.

John Linn, florist, Havre, Montana, died very suddenly Sunday, May 14. He was twenty-six years of age and leaves a widow and two children. The deceased belonged to Great Falls Camp, No. 67, Woodsmen of the World.

Mrs. C. Leslie Reynolds.

It is with regret that we announce the death of Mrs. Leslie Reynolds, wife of the assistant superintendent of the Botanical Gardens, Washington, D. C., who died in the early part of last week after a lingering illness. Mr. Reynolds had the sincere sympathy of the craft. M. C.

Henry G. Flammer.

Henry G. Flammer, florist, Detroit, Mich., died Monday, May 22. He was a native of Germany, and 43 years of age. He leaves a widow and four children. Mr. Flammer was a member of several fraternal organizations, also of the S. A. F., the American Carnation Society, and the Detroit Florists' Club.

Mrs. George Weber.

The sincere sympathy of the craft is extended to George Weber, Louisville, Ky., in the loss by death of his wife, Mrs. Anna Elizabeth Weber. Some two months ago she became frightened at a vicious cow, and while running, tripped, fell, and sustained a compound fracture of the left leg below the knee. Blood poison developed, and the limb was amputated, but to no avail. Mrs. Weber was 56 years of age, and is survived by her husband, four sons and two daughters. A. R. B.

W. S. Davis.

W. S. Davis, of Purcellville, Va., a noted carnation grower and the originator of "Red Sport," died suddenly last week of heart disease. Mr. Davis was a very progressive man, and had he lived would have ranked among our leading carnation growers. He furnished the trade in Washington with their principal supply of carnations. While not a member of the Florists' Club, he had recently asked to be allowed to join so that he could help entertain our friends in August. He was of a kind and genial disposition and was liked by all who knew him. During the few years he has been in business he won the respect and confidence of all with whom he had transactions.

Mrs. Joseph Meehan.

It is our painful duty to record this week the death of the wife of our much esteemed friend and highly valued correspondent, Joseph Meehan, of Germantown, Pa., which occurred early on the morning of Saturday, May 27.

Mrs. Meehan was the daughter of the late Adam and Harriet Gaul. Her father carried on an extensive dairy farm in West Philadelphia, and her early life was spent on the farm. She was born in 1841, and married in 1868. Of a happy, companionable disposition, above board in all she did and said, and loyal in her friendships, she attracted to her an uncommon host of friends, both young and old. She never faltered in any undertaking she believed was right, meeting all difficulties with a cheerfulness which, with her untiring energy, won success. The disease with which she suffered was of a cancerous nature. An operation for it, while apparently successful, did not restore her health, and in the course of two months later the end came.

The funeral took place on Thursday, June 1. Our most sincere sympathy, and, we feel sure, that of the trade, among whom Mr. Meehan numbers his friends by the thousands, is extended to the sorrowing family in their sad affliction.

Gladioli at Washington, D. C.

Among the many instructive attractions being prepared for the visitors to the S. A. F. convention at Washington, D. C., perhaps the best will be an extensive collection of Gladioli, which E. M. Byrnes, Superintendent of Gardens and Grounds, Agricultural Department, has planted on the trial grounds adjoining the newly erected range of greenhouses at Fourteenth and B streets. It will be readily seen from the following list that not only a very choice collection but selection has been gotten together, regardless of labor or expense; and, as the plants will be grown under Mr. Byrnes' immediate supervision, a treat is insured to our friends, of whom we hope to see thousands in August next.

GROFF'S HYBRIDS.

(Purchased from Arthur Cowee, Berlin, N. Y.)
Gold Medal collection, in three sections; Silver Trophy strain, in three sections; Groff's hybrid seedlings, large bulbs; Meadowville Mixture, first size; Buffalo Mixture; Augusta.

GANDAVENTSIS (PSITACINUS X CARDINALIS OR APPOSITIFLORUS).

(Purchased from William Van Fleet.)
Psittacinus.
(Varieties Purchased from Kelway & Son, England.)
Admiral Willis, Agrius, Andromeda, Applanus, Frank Niles, Aquilius, Bellini, Benjamin Harrison, Bono, Cestidas, Chaterhouse, Countess Craven, Crehillon, Doctor



THE LATE W. S. DAVIS

Woodford, Doctor Hogg, Elfin, Duchess of Albany, Duke of Devonshire, Galeata, Camel, Harpagus, Lady Elton, Lady Winborne, Lord Rothschild, Memnon, Mr. E. Beckett, Mrs. J. Eytan, Mrs. McAllister, Pascal, Pottis, Prince Henry, Princess Royal, Protheus, Sir Massey Lopes, Sportsman, Utopia, Vannius, and William Kelway.

(Purchased from Haage & Schmidt, Erfurt, Germany.)
Ariel, Baldur, Fulton, Brilliant, Mathilde, White Lady.
(Purchased from Henry A. Dreer, Philadelphia, Pa.)
White Lady.

(Purchased from Vilmorin, Andreux & Co., Paris, France.)
Canioule (Souchet), Exposition de Saint Louis, General Kuroki, La Glorie, Mandehourie (Souchet), Le Triomphe, Amerique, Andre del Sarto, Baroness Burdett Coutts, Armagnac, Carmelite, Chole, Commandant Marchand, Commandant Delonde, Comtesse Henri de Lamotte, Fille de France, Gallieni, Gargentina, Gazelle, Grand Conde, Grand Valnqueus, Melanie, Granite, Leon XIII, Hercules, Honore, Jean Bart, Lord Salisbury, Amilcar, Madame Brunet, Madame P. Palmer, Marie Therese, Madame de Vilmorin, Sans Pareil, Magnificus, Mars, Martinique, Mentor, Miss Helyett, Ondine, Omanli, Philippe-Auguste, Ple X., Rose des Haies, Ruth Mercier, Safrano, Sceptre de Flore, Stromboli, Turenne.

(Purchased from John Lewis Childs, Floral Park, N. Y.)
Ajax, Augusta, Canary Bird, Chamont, Chrysolora, Ceres, Contrast, Dr. Hogg, Emma Thursty, Ella, Glory of Brightwood, Isaac Buchanan, John Bull, Latone, Le Pousin, May, Mme. Monneret, Mrs. Krelage, Octoroon, Rene Blanche, Sulphur King, Shakespeare, Sunshine, Thalia, Brencleyensis, Corsaire, Snow White.

CHILDSII (GANDAVENTSIS X SAUNDERSII).

(Purchased from William Van Fleet, New York.)
Saundersii.
(Purchased from John Lewis Childs, Floral Park, N. Y.)
A. H. Goldsmith, Africa, Admiral Dewey, Brilliant, Blanche, Boston, Columbia, Doctor Parkhurst, Deborah, Governor McCormick, Harlequin, I. S. Hendrickson, Irene,

Jay, Little Blush, Lowell, Lizzie, Melrose, Middleboro, Mrs. Beecher, Nezincott, Ruby, Variabilis, William Falconer, Daisy Leland, Helen, Henry Gillman, Kitty Leland, Olympia.

(Purchased from Kelway & Son, England.)
Chalmus, Cowley, Cylindus, Kitchener, Dolops, Earl Cadogan, Glido, Grenfell Homer, J. S. Sargent, Marchand, Major Dickie, Meteor, Mrs. Mary Morrison, Ragged Robin, Tennyson, Thomas Horsman, Tros, Princeps (Childs x Cruentus), Creuntus, Leichthni.

KELWAYI.

(Purchased from Kelway & Son, England.)
A. F. N. Hayward, Alexander Edward, Alice Wood, Ambush II., Mary Anderson, Peter Drummond, Ian Kelway, Rock Sand, Simonv, Ard Patrick, Black Meg, Coronation, Maharajah of Kohlapur, Mrs. Chamberlain, Mrs. H. Cornwallis, Agraulis, Baden Powell, Colossal, Countess Egoria, Eugene Sandoe, Marks Barn, Felicite, General Buller, Shahzade.

NANCEANUS (LEMOINEI X SAUNDERSII).
(Purchased from Vilmorin, Andreux & Co., Paris, France.)
Alsace-Lorraine, Amaryllis, Brahma, Canrobert, Colosse, Marcehal Fabert, Edouard Andre, G. A. Kuyk, General Kuronatkin, General Gallieni, Gustave Grunerwald, Henri Vauthier, John Farquhar, Maxime Cornu, Tajgane, Minister Pichon, Antoinette Thry, Iris, Orfila, Pacha, Reine des Belges, Surprise, Tasarine.

(Purchased from V. Lemoine & Fils, Nancy, France.)
Massena, Sir T. Lawrence, James H. Veitch, Pacha, Abbe Roncourd, Colonel Klubb, Richesse, General Burghis Desbordes, General Fy. Minster Pichon, President Brauh, President Viger, Professor Bazin, Capitaine Sverdrup, Paul Labbe, Charles Sellier, Feven Perrin, Julien Gerardin, F. Kegelman, Tasarine, Edouard Andre, Henry Vauthier, John Farquhar, Adreol Makharoff, General Stoesel, Ernest Charbonnel, Port Arthur, Souwaroff, Verechazine, Paul Champel.

LEMOINEI (GANDAVENTSIS X PURPUREA AURATUS AND G. PAVILIO).

(Purchased from William Van Fleet, New York.)
Purpurea auratus.

(Purchased from Haage & Schmidt, Erfurt, Germany.)
Minister von Lucius, Prince Henry.

(Purchased from John Lewis Childs, Floral Park, N. Y.)
Ad. Pierre, Bajazet, Charles Martel, De Cheville, Emile Lemoine, F. Bergman, Incendiary, Lafayette, Marie Lemoine, Vashti.

(Purchased from V. Lemoine & Fils, Nancy, France.)
Rev. W. Wilks, Denit de Carnot, Henry L. de Vilmorin, Nuage, Henry Lemoine, Louis Lemoine, Bien Celeste, Monna Vanna, Vereingetorix, S. Mottet, Domini Rose, Mme. Desbordes, Valmore, Prophetes, Leon Duval, Mme. Millet, Baron Joseph, Hulet, Belle Alliance, Etoile du Nord, President McKinley, Prince H. V. Orleans, Casque d'Or, Frederick Passy, Azur, Velleda.

(Purchased from Vilmorin, Andreux & Co., Paris, France.)
Aphrodite, Armenian, Avant Garde, Baron Joseph Hulet, Commandant Montiel, Desdemone, Eldorado, Ernest Chautrier, Ethonie, General de Nansouty, General Faidherbe, Gil Peres, Henriette Renan, Henry Levque de Vilmorin, Lacordaire, Lady Howard of Walden, Roi de Slam, Lumineux, Madame Desbordes-Valmore, Madame Ferdinand Caveaux, Menhisteophetes, Malvina, Mirielle, Nebulose, President McKinley, Princesse Altler, Professor Le Monnier, Senateur Volland, Reve Bleu, Rosa Bonheur, Tricolore, Vesperus, Vole Lactae.

(Purchased from Kelway & Son, England.)
Canna White, Royal Tar, Empire, Moonbeam, Serpent, Squirrel, Topsy, Acco, Alligator, Mera, Ceella, Donovan, Edina, Dragon, Epeus, Fairy, Gem, Paragon, Glory, Hampton, Holland, Hygeni, Hypatia, Jason, Le Pactole, Lilliana, Lillian, Oriana, Picus, Storm, Thebas.

(Purchased from Arthur Cowee, Berlin, N. Y.)
Baron Staffe, Gil-Blas, George Paul, Jane Dieulafoy, Senator Volland.

KELWAYI.

(Purchased from Kelway & Son, England.)
Hannibal, Langport Wonder, Mike Lanborne, Miss Wade, Nilus, Richard Milner, Prince Henry of York, Sir H. D. Wolff, Edward VII., Vigilant, Wellington.

DRACOCEPHALUS.

(Purchased from William Van Fleet, New York.)
Dracocephalus.
(Purchased from V. Lemoine & Fils, Nancy, France.)
Cheret, Forain, Louis Francois, Radiant, Semaphore, Michel Ange, Velasquez, Rabelais. M. C.

Our London Letter.

BY A. HEMSLEY.

THE ROYAL HORTICULTURAL SOCIETY—Among the numerous exhibits at the last meeting roses were again a great feature. Philadelphia was well shown, several moderate sized pot plants being well flowered; but as at a previous meeting, it was suggested that it should be seen from the open ground before giving it an award, the committee did not deal with it. Messrs. W. Paul & Son's new white rambler, Waltham Bride, was well shown, the plants being covered with clusters of pure white, sweet-scented flowers. The foliage was also good, and it should make a valuable addition to this class of roses for pot work. Dorothy Perkins was exhibited in splendid condition by Messrs. H. Connell & Sons; and crimson rambler were exceptionally fine from G. Mount.

Japanese acers are now much in demand, and the collection shown by Messrs. T. Cripps & Son was much appreciated. This firm has a fine stock, especially in smaller sized plants. Messrs. Peed & Son put up a good collection. When calling at Messrs. Fomow & Sons' Chiswick Nursery recently, I found they were making the acers a specialty and had a large stock in various sizes. These grafted last Autumn were doing remarkably well. It would appear that those worked on established stocks get away much better than imported plants. Large specimens may be scarce for some years to come, but growers are working up big stocks of young plants.

CLUB AND SOCIETY DOINGS

THE DOBBS FERRY (N. Y.) HORTICULTURAL ASSOCIATION.—The regular meeting was held in Odd Fellows' Hall, Saturday evening, May 27, President Dunbar in the chair. A prize for the best collection of flowers cut from hardy shrubs was awarded to Mr. Kastberg, gardener to Miss Masters, Dobbs Ferry. T. A. Lee and F. Bradley were the judges. Messrs. Boreham and J. Knoodle, of Irvington, also staged a very fine collection. A very interesting discussion on hardy shrubs followed, also very interesting remarks on red spider. Secretary Kastberg read an article from The Gardeners' Chronicle of America, by Edwin James Day, on "The Advantages of Horticultural Societies." Mr. Coffee was elected to active membership. An essay on "Hardy Shrubs" will be read at the next meeting. J. BRADLEY.

MASSACHUSETTS HORTICULTURAL SOCIETY.—At a meeting of the board of directors of the Massachusetts Horticultural Society on Saturday, May 20, Wilfred Wheeler, of Concord, was elected chairman of the committee on fruits. Six new members were elected to the society. Dr. H. P. Walcott was elected a member of the board of directors to fill the vacancy caused by the death of Warren Fenno. A letter was read from the American Carnation Society stating that they could not hold their annual convention later than the month of January, the date being set for January 24 and 25, 1906.

The rhododendron show of the society, which occurs on Saturday and Sunday, June 3 and 4, promises well for this season. Rhododendrons, it is feared, will not be shown in such numbers as in former years, owing to the large number of plants that have been winter killed in this vicinity. Herbaceous flowers and other hardy plants will prove one of the chief attractions. J. W. DUNCAN.

Notes on the Flowering Crabs.

Among the early-flowered trees and shrubs none is more showy than the crab apples. Coming at a season just before the lilacs, when few trees or shrubs have blossomed, and when we are just assured that Spring is really with us, they are doubly attractive. There are not a great many varieties, or species, when compared with many other plants of the Rosaceæ, and only a very few are well enough known to be used for ornamental planting. They have generally been known under the generic name of *Pyrus*, but I believe will soon be better known under the more proper name of



ORIGINAL TREE OF MALUS HALLEANA

In Olmsted Park, Boston, Mass.

Malus, under which they are now classed in the Arnold Arboretum.

Malus floribunda, an excellent reproduction of a specimen of which appeared in a recent issue of *The Florists' Exchange*, is perhaps the most widely disseminated variety and it is well worthy of the place it has taken among ornamental trees. There are others, however, which will be found equally useful, and, in many instances, more attractive.

Malus Toringo is one of the best species. It is widely distributed in Japan. It flowers early, producing small white flowers borne in great profusion. The fruits are small, about the size of a pea or a little larger. It is one of the smaller sized trees among the crab apples.

Malus Halleana, or, as it has been more widely known, *Pyrus Parkmanii*, is one of the most showy varieties of Japanese origin. The flowers are borne freely, and are of a beautiful shade of pink. This variety was first sent to this country by Dr. G. R. Hall, an American physician, about 1863. The original plant was consigned to and taken care of by the late Fran-

cis Parkman, and stood until about two years ago on the Parkman estate, now part of Boston's beautiful park system, when it was removed on account of its dying condition. It has not been known to be found in its native country except this once, and is very properly named after its discoverer.

Malus Sargentii is a low-spreading shrub, rather than a tree. It was introduced from Japan by Professor Sargent in 1892. The flowers are small, of a white color, and are followed by bright red fruits, which are equally attractive.

Malus atrosanguinea is a showy crab, considered by many as a variety of *floribunda*. Be that as it may, it is of a distinctive coloring, and should have a place in every collection.

Malus Neidzwitzkyana is a Russian species, possibly from the mountainous districts. It is one of the earliest to flower, and is of a very showy, distinct rose-pink color. It is of an upright habit of growth, and flowers very freely. It is easily known from other varieties, for the bark of the small branches is of a very dark reddish color, and if cut into there will be found red veins extending through the wood as well as the bark.

Malus Schiedeckeri is one of the most showy double varieties. It is a hybrid of doubtful origin, although it is possible that it first originated in Berlin. It is later than many of the varieties, and consequently is more valuable on that account. Its color, however, is also very striking, and it will always rank among the best.

Malus baccata, the Siberian crab, has many forms, both in flower and fruit. The variety *oblonga* is one of the best, with an upright habit of growth and large, showy, pure white flowers. The true species has also white flowers. *Prunifolia* is another good form of this species, as is also *macrocarpa*.

Malus spectabilis is a Chinese species, entirely distinct. The habit is upright, and the flowers are in profusion along the stems. The double-flowered form is decidedly attractive, the blossoms being of a beautiful shade of pink. The variety *Riversii* is a decided improvement on the species, with larger, distinct, semi-double flowers.

Malus ringo is a fine spreading Japanese crab, held by some to be a variety of *spectabilis*, and by others a variety of *Toringo*. The flower-buds are bright pink, turning white as they open, like so many more of this class of plants.

The American species are, in my opinion, equally worthy of a place in collections of ornamental plantings, and compare favorably with any of the Asiatic sorts.

Malus coronaria, the Eastern species, was well described in a recent issue by Mr. Meehan, and *Malus ioensis*, which is known as the Western, or Prairie States crab, is, equally showy. The double-flowered form of the latter, which is perhaps better known as Betchel's crab, is, in my opinion, the finest of all. An excellent reproduction of the plant growing in the Arnold Arboretum appeared in the issue of July 30, 1904. The American varieties are decidedly fragrant as compared with the others, and come into bloom just as all the others have passed, thus prolonging a season of a class of very ornamental flowering trees.

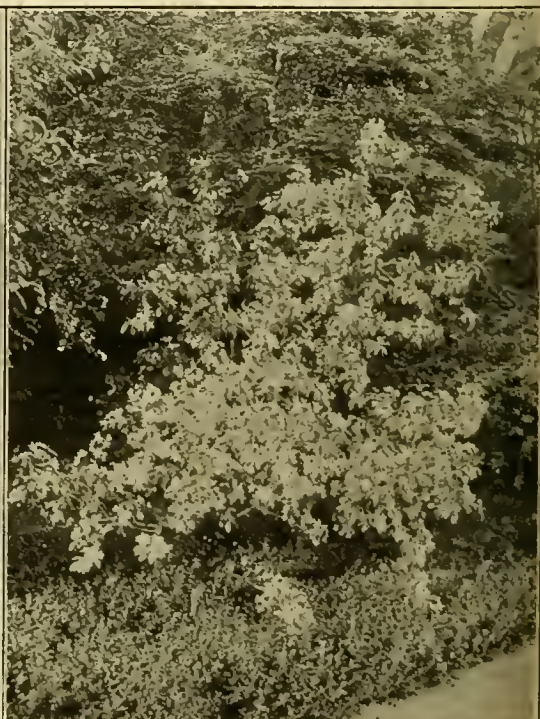
JOHN W. DUNCAN.



MALUS IOENSIS



MALUS ZUNNI



MALUS BACCATA

New York.

News Gittings.

The news-gatherers for some trade journals are becoming past masters at the art of space filling, and it would seem that in order to get what is termed in newspaper parlance "a scoop," these writers care little as to whether they adhere to the truth or not. For instance, it was in the Chicago trade papers that we saw an item about James Mallon heading the St. Patrick's Day parade, mounted on a white horse; and a little later these same papers chronicled the marriage of a certain wholesale florist. It is needless to say that the said young man is still a bachelor; and that Mr. Mallon was busy in his Brooklyn store at the time of the parade mentioned. Then comes the Boston paper with an account of the organization of the New York wholesale florists—a matter that has been talked about for some years, but which never has got further advanced than when four or five of those gentlemen got together on one occasion and found that it was impossible to organize.

And this reminds us that, according to rumor, there is another organization which has reached further toward materialization than did that of the wholesale florists, viz., the prominent greenhouse builders.

The George M. Stumpp Employees' Association will hold its annual outing on Wednesday, July 12 at Silver Lake Park, S. I. The main features of the outing are a dinner, races, boating, dancing, and bowling. Ernest Stumpp is the treasurer of the association.

Among the creditors of Michael Rovatzos, the florist who made an assignment last week, are John I. Raynor, \$1,076; Thomas Young, \$363, and R. Dryer, \$315. The total liabilities are \$5,368, and no assets. Part of the debt was contracted as a partner in the firm of Rovatzos & Moltz in 1902 and 1903.

August Hammerstein, a driver for Charles Kumpf, a florist of Brooklyn, was run into by a trolley car on Second avenue, thrown from his wagon and rendered unconscious by the fall.

Henry Wardorf, a florist, living in Knickerbocker avenue, Brooklyn, was taken to Bellevue early Sunday morning with a fractured skull. Mr. Wardorf fell while entering the downtown subway station at Twenty-eighth street and Fourth avenue. He was found lying unconscious at the foot of the stairs by a passenger.

P. A. Keene has disposed of his interest in the nursery business of Keene & Foulk, and the Bloodgood Nurseries, Flushing, L. I., and has associated himself with the Morris Nurseries, Westchester, Pa., with an office at 1 Madison avenue, New York, where he will be glad to see his friends and customers.

Gus Stern, a former employee of M. Hansen, West Hoboken, N. J., has taken the Hillebrecht greenhouses at Secaucus, N. J.

George Darsley, president of the New

York Market Florists' Association, was run over by an automobile on Broadway a week ago and had one foot badly bruised, which confined him to the house for several days.

An authority states that tomato plants are scarce, also ageratum and the *Verschaffeltii* coleus; and that the demand for geraniums is extremely good.

J. J. Van Waveren, representing the firm of L. Van Waveren & Co., Hillegom, Holland, will sail for home on June 7.

T. James McCarty, of Charleston, S. C., was in town this week, seeking a young man for his retail store.

By postal card, daily newspaper and other means, the trade locally is being apprised of a most wonderful feat, probably never before accomplished since Adam ate the apple and was banished from Eden. It is no less than the announcement that a certain trade paper correspondent, who, while attending to his duties in his "usual" manner, has fasted for a period of, at last accounts, 45 days, barring occasional draughts of malted milk and hot lemonade. This lengthy abstention from solid food, which, it is said, proved an antidote for rheumatism, is only excelled, so far as our knowledge goes, by the compulsory fast of a sow, which for seven weeks was snowed under, and meanwhile subsisted on the superfluous fat she had put on previous to her misfortune.

Patrick O'Mara has just been elected president of the United Irish-American Societies of Hudson County, New Jersey. The societies were formed eight years ago for the purpose of having Irish history taught in the parochial schools of the Newark, N. J., diocese, and since their formation their work has spread throughout the United States.

Buffalo, N. Y.

News Items.

At a dinner given to J. J. Albright, who has donated an art gallery to the city, Palmer & Son had the decoration. Thousands of Bon Silene roses were a feature.

The portions of the city parks that are under Assistant Superintendent Braik's care, are showing numerous beds of pansies variously located, and worthy of special mention, in the colorings and quality of bloom otherwise. Though Mr. Braik had the ill fortune to be laid up with rheumatism much of the past winter, he is now very lively among the seemingly acres of cold frames and hotbeds which again hold the large complement of budding stock for this season's use, and the planting of which was begun this week. Geraniums, cannas, caladiums, and coleus naturally make up the bulk, in kinds, but the numerous other sorts in full readiness, and in such quantities, show the work of a masterly management that commands notice, if not admiration at the accomplishment.

VIDI.

Indianapolis.

News Notes.

The florists in the vicinity of Crown Hill Cemetery report a Decoration Day trade away beyond expectations.

The State Florists' Association of Indiana will hold its monthly meeting in the State House Horticultural Rooms, Tuesday, June 6.

Experiments with the huckleberry sprays in decorating show that they are all right, in effect, for at least 15 hours after being taken from the case. After that the leaves curl and turn to an olive green. During May and June, or while the huckleberry sprays must be used as a substitute for wild smilax, they should prove a success.

Mr. and Mrs. W. W. Coles, of Kokomo, Ind., will leave shortly for a European tour.



MALUS SPECTABILIS RIVERSII IN ARNOLD ARBORETUM, MASS.

Worcester, Mass.

Trade News.

I do not think there was ever such a Memorial Day trade as our florists had this year. Orders began to come in at Easter. Prices were a little higher than last year's. Roses sold at \$2 per dozen and carnations at 75c. and upward. Pansies in baskets gave out early in the morning of the 29th; hundreds more could have been disposed of if available. At the two stores of H. F. Littlefield nineteen clerks were kept busy almost continually from Sunday morning until Tuesday afternoon. At Mackie's, Fisher's, Denholm & McKay Co., and H. F. A. Lange's, the clerks had a hard siege of it. Stock was plentiful and of extra fine quality. The Worcester Conservatories who made their initial bow to the retail trade just before Easter, did an enormous business.

The seed stores have experienced a very large sale of vegetable plants; these stores also carried an immense stock of pansies, but not enough to supply the demand.

CAROLUS.

Louisville, Ky.

The Week's News.

Cards are out announcing the wedding of Frank George Schulz to Miss Mary Menett Spillane, of Colorado Springs, Colo., Wednesday, June 7. Mr. Schulz is the oldest son of Jacob Schulz, our well-known grower and retailer.

Adolph Koening, for some time foreman for C. W. Reimers, has accepted a position with H. Fuchs, to take charge of the growing department of his business.

Owing to the fact that the commencement exercises of the Girls' High School take place on the evening when the Kentucky Society of Florists should hold its monthly meeting, and as a majority of the members expect to be busy then, President Baumer has postponed the meeting one week. He urges all members to be present at the store of William Walker on June 13.

A. R. B.

BALTIMORE, MD.—William J. Johnston is making extensive alterations and additions at his establishment, 221-223 West Madison street.

HELPS A BEGINNER.—I would not be without The Florists' Exchange. I find it of great help to me as a beginner in the business. G. BIMSON, Maine.

HAMILTON, ONT.—Fine, warm weather now prevails, and bedding work is in full swing. There has been a noticeable demand for choice varieties, there being many orders for particular sorts for bedding, where ordinary mixtures or anything to fill the beds was usual before. The Webster Floral Company report a great increase in the local demand for roses, shrubs and perennials.

Roses and carnations are plentiful and good, with low prices ruling.

May 24, Victoria Day, is always the bedding out day in this locality, all window boxes, etc., being ordered for that day or before. This year has been an unusually busy one. BEAVER.

PEORIA, ILL.—J. T. Shoaff, the florist, of this city, is also an entomologist, and has been making a collection of insects peculiar to Peoria. He has now secured and labeled over 7,000 distinct species. He has registered each insect, mounted it upon cardboard, and placed it in its appropriate class. Some idea of the labor required can be gained when it is stated that this collection is contained in forty large cases, protected from the ravages of other insects by hermetically sealed boxes and impregnated with camphor. With Mr. Shoaff this has been a labor of love, pursued in his leisure moments. Some of the specimens are exceedingly rare, being native to this locality. The collection is particularly rich in members of the wasp family, and also in beetles and the like. Mr. Shoaff is a scientist of great ability and research, as well as a florist and botanist of recognized talent.

MACON, GA.—The Idle Hour Nurseries, recently owned and controlled by the late Robert H. Plant, have been purchased by Daniel C. Horgan, of this city. The plant is thoroughly up-to-date, comprising eight houses, each 150 feet in length, built by Weathered's Sons, New York. Mainly roses and carnations are grown, both of which do fine in this climate.



MALUS SARGENTI IN ARNOLD ARBORETUM, MASS.

GET OUR BOOKLET

GO ON DO IT

THE HAIRED FREE MAN TELLS HOW TO FAIL

ALL APHIS

IN 4 HOURS
100 BUSHELS FOR
10 CENTS

H. A. STOVITZ & CO.

116 West 4th, New York City

Review of the Market

NEW YORK.—There is a slight reduction in the supply of roses and, on that account, prices are somewhat firmer, though no material advances have yet occurred. There is much milder on some of the shipments received, both American Beauty and the teas, and stock thus affected is just about worthless when clean flowers are to be had. Memorial Day did not cut much of a figure in this market. There was an abundance of cut stock from flowering shrubs, and added to this there was a larger supply of roses and carnations than had ever been seen before for that holiday. Of the outside flowers available, there were robinia, lupin, weigela, iris, peonies, deutzia, viburnum, lily of the valley and polygonum, and while the major portion of such stock was cleared out on Monday, it brought very little returns compared with the amount of room it occupied. Tuesday and Wednesday were both very dull days, but with the first of June business brightened up, and we may confidently expect better things for a few days at all events, as there is sure to be a crop of June weddings.

Carnations and sweet peas are quite plentiful, and there is still a good supply of lilies coming in. Cattleyas and gardenias are plentiful enough for the demand, and of the former some of the gigas are bringing fancy figures.

At the plant market on Monday morning geraniums brought as high as \$1.50 per dozen, and all stock cleared out exceedingly well; in fact, everything was sold out so close at this market on Monday and Tuesday that no growers appeared with plants on Wednesday morning.

BOSTON.—Memorial Day is always the leader in the quantity of flowers sold in the city of Boston; that is to say, sold at wholesale. True, the retail stores will tell you that their Memorial Day trade does not nearly come up to that of Easter or other holidays, but in the wholesale market much more business is done than at any other season of the year. This year was no exception, and it is safe to say that from 25 to 50 per cent. more flowers were sold this year than on any other previous occasion. Of course, much of the business is done by out-of-town buyers. Almost everything sold at fairly good prices, especially if it was in the least colored. Roses did not go so well as carnations, yet all the available roses of the medium and smaller grades were sold out. American Beauty, of course, did not have a great demand, but that is not looked for at this season. White roses sold poorly, especially Kaiserin Augusta Victoria, which now seems to be plentiful. Carnations, except white, were cleaned out at good prices, the prevailing figures being \$3 and \$4. Lilies sold fairly well, but not a great many were in the market. Spruces were not so much in demand. A good many lilacs and deutzias were disposed of. By the way, these latter two shrubs were just right this season. Stocks sold well at \$2 and \$4. Sweet peas went very well at 50c. to \$1. Candytuft, of which some growers make a specialty for this occasion, sold very well indeed at 50c. per bunch. Lily of the valley had no demand. Smilax and asparagus and other greens went in large quantities, but with no advance in prices. J. W. D.

CINCINNATI, O.—Trade remains good, and stock on the scarce side. Memorial Day cleaned up all the flowers in the market; business being fully up to that of any former year. June weddings and commencements will uphold the trade for some time, and all good stock will fetch satisfactory prices. American Beauty roses are still the leaders. The crop now on is of very fine quality, and this market has a good supply. Long Beauty bring \$3 to \$4; other grades in proportion. Carnations realize 1c. to 2c.; Bride and Bridesmaid, 3c. to 6c.; peonies, 4c.; lily of the valley, 4c.; lilies, \$1.50 per dozen; Western ferns are now in, selling at \$1.50 per 1000. E. G. G.

SYRACUSE, N. Y.—Decoration Day is becoming more and more important to the florists of this city and vicinity. Year by year the demand for cut flowers and blooming plants is increasing, and this year, owing to the continued cool nights, there was very little outdoor stock in evidence; consequently the florists did a larger trade in cut flowers, for which there was a heavy demand. There was plenty of stock to go around, with the possible exception of carnations. Roses sold at from \$1.50 to \$3 per dozen; carnations, 75c. to \$1.25; longidorum lilies, \$2.50 per dozen; lily of valley, 50c. and 75c.; sweet peas, 50c. and \$1 per 100; peonies, \$1.60 and \$2 per dozen. J. E. B.

INDIANAPOLIS.—Owing to rainy weather and an abundance of outside flowers, Memorial Day trade was not any heavier than in former years. The prospect for a record-breaking business was very bright until it became evident that there was no relief from a series of showers. Never before was stock so plentiful. Prices were, in most cases, 25 per cent. higher earlier in the week. Peonies were supposedly sold out by Thursday at \$4 to \$6 per 100. The warm rains caused them to open so rapidly that by Monday thousands could have been had at \$2 (shipped stock) to \$4 per 100. Candytuft, lavender and white, ten-week stocks, feverfew and daisies were on the market in immense quantities. A limited number of Harrisii lilies were to be had at \$12.50 per 100. Although the supply of sweet peas was large, they were readily disposed of to retail customers at \$1.50 to \$2 per 100. Well-grown snapdragon have sold well of late at 25c. to 35c. per dozen. The anticipated shortage of carnations did not materialize; fancy grades were scarce at \$2.50 to \$3 per 100, but medium carnations were never cleaned up at \$2. Roses were preferred by many for grave decorations, and were well cleaned up by Tuesday morning. Select Bridesmaid and Bride retailed at \$1.50 to \$2 per dozen. The best Mme. Abel Chateaux, Souvenir du President Carnot and La France brought \$3 per dozen. Shorts of the same varieties were used in bouquets at \$1 per dozen. American Beauty and Liberty moved slowly; the former wholesaled at \$3 per dozen for select 36-inch; \$2 per dozen for 24 to 30-inch and \$1.50 to \$2 per dozen for 15 to 20-inch. A few Richmond are being received; although second grade stock, a ready sale is found for them at \$1.50 per dozen. Canterbury bells have proved a most useful flower for Memorial Day bouquet making; a large, pink, white or lavender spray makes a fine nucleus for a bunch of flowers. The colors are by far the most beautiful and delicate of any seasonable flower; 50c. to 75c. is the customary price for a large spray. The commission houses had a large supply of Cane Jasmine, but sales of them were poor, there being too many other preferable flowers in the market. I. B.

PITTSBURG.—Business the past few weeks was fair; plenty of good stock of all kinds was to be had at low prices. Trade for Memorial Day was very brisk in the cut flower as well as the plant line. Good prices were realized. There was not much outdoor stock; even peonies were not too plentiful. Sweet peas were in good demand. Carnations went well, as usual. The call for flowers for cemeteries on Memorial Day is increasing every year, and there is hardly a grave to be seen without them.

The bedding plant trade this year was undoubtedly better than that of last year. Good blooming plants were scarce, and brought high prices. Four-inch geraniums sold at 15c. to 20c. each, and by the dozen according to quality, at from \$1 to \$1.50 per dozen. They seem to be the leading plant. Next to them come cannas, which were in great demand and the home supply was exhausted. Hardy pot roses also sold well at from 35c. to 50c. each. Lantanas and blooming vincas were in better demand than usual, particularly the latter. Coleus and alternanthera went about as well as usual, although the cool weather held back sales somewhat; but there is generally a good market for these until the middle of June.

John Bader had the largest stock of plants ever put on the market, and he has been kept busy day and night the last few weeks; his trade is mainly wholesale and went by wagonloads. Blind Bros. also had a fine stock of blooming plants which found good sales in the Pittsburgh market. There is more room to move about in the Allegheny market, and more plants are offered for sale there. All went well, at good prices. There is yet quite a lot of planting to do, and the next few weeks will see all stock well cleaned up.

John Bader received a nice shipment of plants from abroad, some fine bay trees among them. All arrived in good shape.

L. I. Neff had considerable funeral work the past few weeks; in one order for a casket covering, made of white roses, almost 3,000 were used.

Visitors the past few weeks were W. P. Craig, of Philadelphia; A. Ringler, of Barnard & Co., Chicago; and J. A. Evans, of the Quaker City Machine Company, Richmond, Ind. Mr. Evans was showing an improved arm for his ventilating apparatus, which is a good feature.

Loew & Jones had to give up their store on Diamond street, as the building is being torn down. They have not yet succeeded in getting another place, but are still in the business.

E. C. REINEMAN.

ST. LOUIS.—The week just past trade was somewhat better in cut flower lines. Stock, too, was not nearly so plentiful, with prices a notch or two higher. The weather was quite cool, and a great many roses came in more or less mildewed. At this writing most of us are busy with work for Decoration Day, which seems to be a great deal better than usual. A great many orders have been placed ahead for June weddings; these, with school commencements, should make June a good month.

The supply of stock received at the four commission houses is considerably diminished this week. It seems that the growers got tired of paying express charges on consignments, and have pulled out their plants, making room for young stock. Carnations are still coming in of fine quality. Enchantress, Prosperity, and Mrs. Lawson are up to \$2.50 and \$3 per 100; others bring from \$1.50 to \$2. In roses fine long American Beauty realize \$3; other grades from 50c. to \$2 per dozen. Bride, Bridesmaid, Perle des Jardins, Souvenir du President Carnot, Golden Gate, and Meteor ran all the way from \$2 to \$3 per 100. Bell Miller and Canfield, of Springfield, and Ammann, of Edwardsville, continue to send in some of the best roses to this market. A few Harrisii lilies and callas are still in the market; all other bulbous stock is out, except lily of the valley, of which some fine stock is selling at \$3 and \$4 per 100. Sweet peas are very plentiful, but the demand is good, and they are generally cleaned up every morning, at from 35c. to 60c. per 100. Cape Jasmine are in great abundance at 50c. to \$1 per 100. All kinds of greens are to be had in any quantity. ST. PATRICK.

WASHINGTON, D. C.—Trade has been brisk this week, commencements being in full swing. American Beauty roses brought from \$3 to \$6 per dozen. There was an ample supply of Kaiserin Augusta Victoria and Souvenir du President Carnot, which were in demand at \$1 to \$1.50 per dozen. The supply of Crimson Rambler flowers was limited, good-sized bunches realizing from \$1.25 to \$2 per dozen. Bride, Golden Gate, and Bridesmaid are coming in quite small and sell at 50c. to 75c. per dozen. Liberty has been very scarce at \$1 to \$2 per dozen. Peonies were in demand; they seem to be popular favorites at this season, going at from \$1 to \$2 per dozen, red and pink being most called for. Gladiolus were scarce at from 75c. to \$1.50 per dozen. Gaillardias sold rapidly at 10c. to 25c. per bunch. The Centre Market, which is our principal one, was well stocked with all sorts of bedding plants in pots and hanging baskets, which sell fast. It is expected that the demand for Decoration Day will be a record-breaker. M. C.

CLEVELAND, O.—Magnificent weather is the means of the disposal of great quantities of stock. A great many salvias and geraniums were sold, as were larger potted plants such as hydrangeas, lilies and some Crimson Rambler roses.

Cut flowers sold well, there were plenty of all kinds but carnations. Considerable design work is being done. Cleveland Grays, a local military company, using 150 monogram designs.

Peonies are very scarce; none but red ones are to be had at any price, and not many of them. O. G.

NEWPORT, R. I.—Decoration Day trade was very satisfactory. The seedsmen's splendid business still continues. F. W.

Chicago.

News Notes.

John Brod, Niles Center, has disposed of his place to Matthias Mann; the latter has put his brother-in-law in charge of it.

Poehlmann Brothers are installing new boilers and remodelling their large plant.

The Desplaines Floral Company has given up its stand in the Growers' Market. The firm's products are now being handled by Percy Jones.

J. Foley is the happy father of a bouncing girl baby.

Decoration Day plant trade was exceedingly heavy, much better than usual.

Stock in cut flowers is not overplentiful, almost scarce in some lines. Memorial Day business was very satisfactory; there was a big demand for colored stock. R. JOHNSTONE.

SMILAX

Per 100	Per 100
Fine Plants, 2 1/2 in. pots	\$1.25
Geraniums, 3 in. pots to close	4.00
Seeding Petunias, 2 1/2 in. pots	2.50
Pansy Seed, July	.02, 4.00

FIRMS WHO ARE BUILDING

HIGHLAND MILLS, N. Y.—Thomas Williams is making preparations for the erection of several greenhouses.

MARSHALLTOWN, Ia.—A greenhouse, costing \$2,000, is among the improvements to be made shortly at the Iowa Soldiers' Home here.

HANCOCK, MICH.—A. M. York intends making some changes at his greenhouses at Ripley this Summer. Besides building a large addition to one of the houses there at present he intends erecting two new ones. The addition to be erected will be 23 x 100 feet in size, and one of the new buildings will be 40 x 100 feet in size; the other, 23 x 100 feet.

LIBERTYVILLE, ILL.—Land east of this town has been purchased by Wieland & Reisch Floral Company, on which they will erect an extensive range of greenhouses.

FULTON, ILL.—Hillis & McKenzie will erect two greenhouses, each 23 1/2 x 200 feet; also a boiler house 15x61 feet.

COMING EXHIBITIONS.

ANNANDALE (N. Y.) ROSE SHOW.—The fourteenth annual exhibition will be held June 14 and 15. The schedule of premiums has been issued, and copies may be obtained on application to Secretary John W. Bain, Red Hook, Dutchess County, New York. The Judges announced are: Messrs. R. V. Allen, F. L. Atkins, Leonard Barron, Patrick O'Mara, and Henry A. Siebrecht.

BOWLING.

NEW YORK—A few of the Florists' Club members met at Thum's Bowling Alleys, on Friday, May 26, and the undernotes scores resulted:

J. Fenrich	171	191	201
A. J. Guttman	160	184	185
J. A. Shaw	145	134	130
J. A. Manda	143	146	151
P. Kessler	151	133	139
H. Hoffmeyer	150	137	140

It is announced that practice games will be rolled on these alleys every Friday evening until July 23, and that the averages made will decide the make-up of the team that shall represent the club at Washington next August.

WINNIPEG, CAN.—Ueberheim & Smith, the florists, of St. James, have opened a retail store at 213 Graham, corner Main.

ASPARAGUS PLUMOSUS NANUS

Nice plants, \$1.50 per 100; 3 in., \$4.50. Sprengerl, small plants, again, July 1; 3 in., \$4.00. Geranium cuttings, strong, mixed, \$1.25 per 100. Tomato plants, transplanted, Stone, Beauty, Sparks, Earlana, \$1.00 per 100; \$7.50 per 1000. Pansy plants, \$7.50 per 1000; \$1.00 per 100.

WM. STUPPE Westbury Station, L. I., N. Y.

BOUVARDIA

3000 double pink, fine plants, from 2 1/2 in. pots, \$3.00 per 100.

THOMAS STOCK, Dorchester, Mass., 251 Minot Street.

Marie Louise Violets

Sand rooted cuttings, clean and healthy, \$1.50 per 100; \$12.00 per 1000. Sample, 10c. Cash with order, please.

W. F. Hoffmann, Academy Street, Poughkeepsie, N. Y. Mention the Florists' Exchange when writing.

MAMMOTH VERBENAS

from 2 1/2 in. pots, in bud and bloom, \$1.00 per 100; 500 for \$3.50.

Star Petunia, 3 in., \$2.00 per 100. Asparagus Sprengerl, 2 1/2 in., \$3.00 per 100. " Plumosa, 3 in. pots, \$5.00 per 100. Aster, Daybreak and Purity, 50 cts. per 100; Invincible, 40 cts. per 100.

J. S. BLOOM, Riegelsville, Pa. Mention the Florists' Exchange when writing.

1500 ENGLISH IVY

4-inch pots, 3 ft., bushy, \$12.00 per 100.

CHAS. LENKER, Freeport, L. I., N. Y. Mention The Florists' Exchange when writing.

ASPARACUS

Per 100	Per 100
Plumosa Nanus, 2 1/2 in. pots	\$2.00
Sprengerl, 2 1/2 in. pots	2.00
Coleus, to close	1.50
Primroses, Chinese Obconica and Foresti, July 10	2.00

JOSEPH H. CUNNINGHAM, Delaware, Ohio

Mention the Florists' Exchange when writing.

CLASSIFIED ADVERTISEMENTS

Cash with Order

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouse, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), adt sold, without display. Display advertisements in these columns 15 cents per line; count 14 lines to the inch.

No advertisement taken for less than 50 cents (35 words), except Situations Wanted.

[If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.]

STOCK FOR SALE

ASTERS—Queen of the Market, from 2 1/2-in. pots, red, white, blue and pink, nice plants; having more than we have room for, we will let them go for \$1.25 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

ASTERS—Simple's Queen of the Market and Comet, 5 colors, mixed, \$2.50 per 1000. Simple's separate colors, white, pink, rose, purple and lavender, \$3.00 per 1000. All field-grown, ready to plant. Cash with order.

A. & G. Rosbach, Pemberton, N. J.

CROTONS, fine plants, wide or narrow leaved, \$3, \$5, \$10 per 100. 200 English Ivy, 3 to 6 ft., cheap.

Wanted Eignonia Venusta. F. C. Belden Co., West Palm Beach, Fla.

PELARGONIUMS—Something new; something natty; seedling varieties never before offered for sale; standard varieties; the largest and best collection in America. Descriptive price list on application. J. Gammage & Sons, London, Canada.

ROSES, good clean stock, 3-inch; 5,000 Bride, 5,000 Bridesmaid, 1,200 Kaiserin. Write for prices. F. & H. Mergenthaler, E. Washington Lane, Germantown, Phila., Pa.

SALVIA SPLENDENS—500 fine plants, in fine condition; 3 1/2-in. and 4-in. pots; \$3.50 per 100. T. H. Keefe, 19 Keep St., Madison, N. J.

VEGETABLE PLANTS—Transplanted, greenhouse grown, now ready for field. Tomatoes, Matchless, Stone, \$3.00 per 1000. Celery, White Plume, Golden Self Bleaching, \$4.00 per 1000. Mangoes, \$4.00 per 1000. D. W. Davis, Zion's Grove, Pa.

VERENAS—Vaughan's best mixture, 2 1/2-in. pots, \$2 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

STOCK WANTED

WANTED—ALL KINDS OF SUMMER FLOWERS, SUCH AS PAEONIES, ASTERS, DAHLIAS, GLADIOLUS, SWEET PEAS, STOCK, ETC. WE WISH TO RECEIVE SHIPMENTS ON CONSIGNMENT, AND CAN HANDLE GOOD STOCK TO ADVANTAGE. SETTLEMENTS WEEKLY. A. L. YOUNG & CO., 54 WEST 25TH ST., NEW YORK.

WANTED!

500 strong rooted cuttings large leaved ENGLISH IVY

1000 Asparagus Plumosus Nanus, from 2 1/2 inch pots, extra well-rooted, ready for a shift.

Address, with sample and price, J. NEWMAN & SONS, Corporation 51 Tremont St. Boston, Mass.

Mention The Florists' Exchange when writing.

SITUATIONS WANTED

SITUATION wanted—Working foreman; single; carnation grower; \$30, board. Florist, 147 Bleeker St., New York.

SITUATION wanted—Single; A1 grower of roses, carnations; take charge 50,000 ft. glass; competent worker. Florist, care Crane, 201 East 26th St., New York.

SITUATION wanted by orchid grower, single; many years' experience on good private and commercial places; best references. Apply Julius Roehrs, Rutherford, N. J.

A MAN of long experience, first-class references, wants position as working foreman growing roses, carnations, chrysanthemums, etc.; commercial or private. X. A., care Florists' Exchange.

SITUATION wanted by young man, single; five years' experience on retail place; first-class references; discharged June 1; state wages, with or without board. Address F. H. Phean, Lock No. 4, Washington Co., Pa.

SITUATIONS WANTED

SITUATION wanted by good all around grower; American, married, 35 years old. Can prove himself competent and reliable. Good references. Address W. P., care Florists' Exchange.

SITUATION wanted by married man, English, age 35; 14 years in America; thoroughly competent and reliable; good all around grower and propagator; also experienced in nursery and landscape work and packing; strictly sober; references from well-known firms; please state salary. Address X. B., care Florists' Exchange.

HELP WANTED

WANTED at once, an assistant rose grower; steady position for right man. Address L. C. R., P. O. Box 74, Murray Hill, N. J.

WANTED—Working foreman for general greenhouse work; good wages to the right man. Address W. C. Goodrich, Watervliet, N. Y.

WANTED—Grower of roses, carnations, chrysanthemums and greenhouse plants; state wages and references. X. C., care Florists' Exchange.

WANTED—A sober, industrious, all around man on a commercial place of 7,000 sq. ft. of glass. Steady place for the right man. G. E. Felch, Ayer, Mass.

FIRST-CLASS florist wanted for 16,000 ft. glass, mainly carnations; must be able to take full charge; strictly temperate. Write Lock Box G, Stafford Springs, Conn.

WANTED at once, two good men who have had experience in rose growing and cutting. Apply personally to foreman, E. G. Asmus' Sons, Hudson Boulevard and Maloune St., West Hoboken, N. J.

WANTED—A working foreman; roses, carnations and general stock. State wages expected, and give references. Also an assistant who worked successfully on roses. John Iteck & Son, Bridgeport, Conn.

WANTED—By June 1, a first-class grower of roses and carnations; must be sober, reliable, and able to grow A1 stock. Wages, \$65 per month. Place permanent. Address U. C., care Florists' Exchange.

SALESMAN wanted to solicit orders for fine nursery stock; gardeners and others who have some knowledge of the business; steady employment and good pay. Address P. A. Keene, 1 Madison Ave., New York.

WANTED—Young man with general knowledge of greenhouse work to take charge of small commercial place in owner's absence; 9,000 square feet; roses principally; state wages. Box 63, Bala, Pa. (near Philadelphia).

WANTED—At my branch establishment, Fort Hamilton Ave., a married man as foreman; a good grower of roses, carnations and general stock; only a steady and experienced man need apply. Give references, and state wages expected. Address R. Shannon & Son, 341-9 Greene Ave., Brooklyn, N. Y.

WANTED—A competent bookkeeper and office man familiar with the tree and plant business; good opportunity and permanent place for a man not afraid of work, and who wishes to advance. References required. Also a nursery man of good habits; young, energetic man preferred. Fancher Creek Nurseries, Inc., Fresno, Cal.

BUSINESS OPPORTUNITIES

FOR SALE—Entire florist business, store and three small greenhouses, in the city of Philadelphia; will be sold cheap. Apply to Henry F. Mitchell Co., 1018 Market St., Philadelphia, Pa.

FOR SALE—Six greenhouses; hot water heated; mostly 16x24 double French glass; city water; 25 miles from N. Y.; 15 minutes from depot; good retail trade. F. W. Miles, Plainfield, N. J.

TO LET—Illness compels renting of a beautiful floral plant in "The Flower City," consisting of four greenhouses, fully equipped; great money maker. For particulars address Cora M. Jones, 16 State St., Rochester, N. Y.

\$700 CASH buys established florist business near manufacturing center; six room dwelling house, haru and workshop; three greenhouses and four acres of land; with exceptionally good market for product. Address F. J. Ekmark, Real Estate and Insurance, Meriden, Conn.

FOR SALE—Our entire plant, 10 greenhouses, about 25,000 ft. glass, nearly all 16x24 ins. in size, and double thick. Iron and cedar posts, cypress bars; business established over 20 years, but entirely rebuilt in last 10 years; heating, hot water under pressure. A large percentage of income is from cut flowers and floral work; entire products sold retail. Receipts all right, books open. Terms easy. We are only 20 miles from Massachusetts State line, with some of N. H. fine summer resorts near us. Address Ellis Bros., Keene, N. H.

Fine Business Opportunity

A partnership is offered to one who can bring \$20,000 to \$30,000 cash capital to engage in the Seed and Bulb business in a far Western city, famous for its beauty and climate; large local trade; great opportunity for a big mail order business; party who offers has prestige in the trade and understands the business thoroughly. Address X. D. X., care Florists' Exchange.

H.M. ROBINSON & CO.

Decorative Greenery and Florists' Supplies OF ALL KINDS

8-II Province St., BOSTON, MASS. Mention the Florists' Exchange when writing.

BUSINESS OPPORTUNITIES

TO RENT—In Greater New York, 25,000 feet of glass, 3 acres of ground, dwelling house and barn. Address P. M., care Florists' Exchange.

GREENHOUSE, stocked with ferns, near New York, for sale to the right party; only people who mean business need apply. Address R. G., care Florists' Exchange.

FOR SALE OR RENT—11 greenhouses, Hitchings and Gurney heaters; 4-inch pipe; coal cheap; good water; will give a bargain to the right person. Apply Jos. H. De Prehn, 300 S. 2nd St., Pottsville, Pa.

\$5,000 will buy twelve thousand six hundred feet of glass, all heated by steam, with two acres, or more, if wanted; three new houses, three in good condition; terms to suit. Apply W. G., care Florists' Exchange.

FOR SALE—Four violet houses, capacity 25,000 violets; cuttings already set out; at present filled with tomato plants. Living house, four rooms; 2 acres land; near depot. For particulars address W. B. Goodenow, Stoughton, Mass.

FOR LEASE—Near Jamaica, Long Island, two greenhouses, each about 20x120 ft., heated by hot water; all just put in good condition; small dwelling with about one-half acre land rents with greenhouses. Apply to Winthrop & Stimson, 32 Liberty St., New York.

FOR SALE or lease, well equipped plant with seven acres, located in good town and fine country; 20,000 ft. glass; cut flowers and plants can sell twice what we can produce; reasons given for wanting to sell. Part cash, balance at purchaser's own time. Address T. F., care Florists' Exchange.

For Sale or Rent

Ten thousand feet of glass; three acres of ground at Narbeth Station, main line Pennsylvania railroad; houses well stocked with spring plants, carnations and chrysanthemums; terms reasonable.

CHARLES F. KRUEGER, Reading Terminal Flower Stand, PHILADELPHIA.

FOR SALE

Greenhouse Material and Hot-bed Sash, milled of Louisiana Cypress. Try V. E. Reich's Oxford Putty; specially made for Greenhouse and Hot-bed Sash.

V. E. REICH 1429 Metropolitan Avenue, BROOKLYN, N. Y. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

From 2 1/2 in. and 2 3/4 in. pots.

A. J. Bisfou, G. W. Childs, Golden Wedding, Miss Alice Byron, Dr. Englehard, Merza, May flower, W. H. Chadwick, Yellow Eaton.

Price from 2 1/2 inch pots, \$4.00 per 100.

Col. D. Appleton, H. L. Sunderbruch, Mrs. McArthur, Monrovia, Mrs. Barclay, Maud Dean, Mrs. T. L. Park, Mrs. Coombs, Nellie Pocket, Nagoya, Soliel d'Octobre, Superba, Silver Wedding, T. Carrington, White Bonaffon, Western King, Vivand-Morel.

Price from 2 1/2 inch pots, \$3.50 per 100; \$3.00 per 1000.

Autumn Olory, Ada Spaulding, Collingfordii, Dorothy Devens, Olory Pacific, Golden Trophy, Harry May, Harry Parr, H. W. Reiman, J. E. Laker, J. H. Troy, Mrs. Jerome Jones, Meta, Minnie Wansmaker, Mrs. Baer, Mrs. S. T. Murdoch, Miss M. M. Johnson, Major Bonaffon, Mrs. Humphrey, Mad. Fred Bergman, Nivens, Polly Rose, Pink Ivory, Rosa Owen, Thomas H. Brown, Timothy Eaton, W. H. Lincoln, Xenia, Yanoma.

Price, from 2 1/2 inch pots \$3.00 per 100; \$25.00 per 1000.

CARNATIONS

FROM POTS. NICE STOCK

700 Lady Bountiful \$7.00 \$60.00 300 White Lancelot..... 7.00 300 Lieutenant Peary..... 10.00

Have a few of other varieties. Send for list.

ROSES

Hardy and everblooming. 2 1/2 inch, \$4.00; 3 1/2 inch, \$5.00; 4 inch, \$20.00 per 100. Send for list.

MISCELLANEOUS

FOR SALE—Hot-water boiler, in good condition; will handle 2,500 feet glass. Price, \$30.00. E. S. Blauvelt, Wholesale Florist, Coeymans, N. Y.

WANTED TO PURCHASE GREENHOUSES TO BE TORN DOWN. MENTION PARTICULARS AND PRICE. ADDRESS A. Z., CARE FLOLISTS' EXCHANGE.

FOR SALE—No. 5 Krossshell hot water boiler, only used a short time; cost \$300.00; will sell for \$175, complete with all attachments. E. I. Rawlins, Quakertown, Pa.

SECOND-HAND GLASS—100 boxes 12x18 double thick, best quality American glass; perfectly clean; packed securely in new glass boxes. Wm. Luton, West Side Ave. Station, Jersey City, N. J.

WANTED TO BUY greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

PUMPS Rider-Ericsson. Second-hand, from new; \$40.00 up; all repairs; other makes; new; cheap.

BOILERS New and second-hand, 2 second-hand steam; first class condition; will heat 1000 sq. ft. glass, at \$35.00 each.

PIPE Good serviceable second-hand, with Threads; 2-in., 7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 3 1/2 cts.; 1-in., 3 cts.; 3/4-in., 2 1/2 cts. New 2-in. Standard, full lengths, with couplings, 8 1/2 cts. ft. Old and new fittings and valves.

STOCKS and DIES New Economy, best made. No. 1 Threads, 1/2-in., 3/4-in., 1-in. pipe, \$3.00. No. 2 Threads, 1 1/4-in., 1 1/2-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New Saunders Pattern. No. 1 cuts 1/2-in.-1-in. pipe, \$1.00. No. 2 cuts 1-in.-2-in. pipe, \$1.30.

STILLSON WRENCHES New. 18-in., grips 1/4 in.-2-in. pipe, \$1.85; 24-in., grips 1/2-in.-2 1/2-in. pipe, \$2.40; 30-in., grips 3/4-in.-3 1/2-in. pipe, \$4.75.

PIPE VISES New. No. 1 Hinged, grips 1/4-in.-2 in. pipe, \$2.25.

GARDEN HOSE New. 3/4-in., guaranteed 100-lbs. pressure, 7/8 cts. per ft.; 1/2-in., not guaranteed, 4/8 cts. per ft.

HOT-BED SASH New. Cypress, 3-ft. x 8 ft., from 70 cts. up; glazed, complete, from \$1.00 up. Second-hand, as good as new, complete, at \$1.25 each.

GLASS New American, 60 sq. ft. to the box, 16x12, B, Single, at \$1.40; 16x12-12x12, B, Double, at \$2.40; 12x14, grips 1/2-in.-2 1/2-in., \$1.15-1x20-16x18-18x24, B, Double, at \$2.60; 16x20-16x24, B, Double, at \$2.85.

Get our prices on New Gulf Cypress Building Material Ventilating Apparatus, Oil, White Lead, Putty, Paint, Points, etc.

OLD GREENHOUSES BOUGHT. METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y. Mention the Florists' Exchange when writing.

THE AMERICAN GARNATION Price, \$3.50

A. T. DELA MARE PTG. & PUB. CO. LTD.

Own Root ROSES Fine Stock

Bride, Bridesmaid, Golden Gate, 2 1/2 in. pots \$4.00 per 100; \$38.00 per 1000. 3 in. pots, \$7.00 per 100; \$60.00 per 1000. Perle, Sunset, Sunrise, 2 1/2 inch, \$5.00; 3 inch, \$8.00 per 100.

CRAFTED FINE STOCK

Bride, Bridesmaid, Golden Gate, Carnot, Kaiserin, Testout, La France, Wootton, Watteville, Albany, from 2 1/2 inch pots, \$12.00 per 100.

MISCELLANEOUS PLANTS READY FOR IMMEDIATE SALES.

Table listing various plants and their prices per 100 and per 1000. Includes Alternanthera, Ageratium, Panicle, Stella Gurney, Cuphea Platycentra, Coleus, Cammas, Feverfew, Geraniums, English Ivy, Fuchsia, Heliotrope, Hydrangea, Ivy, Lantana, Lobelia, Moonflower, Petunias, Salvia, Tropaeolum, Vinca, and Verbeas.

WOOD BROS., Fishkill, New York

PANSIES

THE JENNINGS STRAIN. Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

Mention the Florists' Exchange when writing.

VERSCHAFFELTII COLEUS

2 in. and 2 1/2 in. pots, \$2.00 per 100; \$18.00 per 1000; rooted cuttings, 60c. per 100. Golden Bedder Coleus, 2 in. and 2 1/2 in., \$2.00 per 100; rooted cuttings, 80c. per 100. Assorted Coleus, 2 1/2 in., \$1.50 per 100. S. A. Nutt Geranium, 2 1/2 in., \$3.00 per 100. Mme. Sallerol Geranium, 3 in., \$5.00 per 100. Assorted Geranium, 3 in., \$4.50 per 100. German Ivy, 2 1/2 in., \$1.50 per 100. English Ivy, 2 1/2 in., 3c.; 3 1/2 in., 6c. each. Ampelopsis Veitchii, 2 1/2 in., \$4.00 per 100. CASH, PLEASE.

R. I. HART, Hackettstown, N. J. Mention the Florists' Exchange when writing.

EXTRA FINE PLANTS WRITE FOR PRICES

DRACENA INDIVISA 4-in., 5-in. and 8-in. pots. HELIOTROPE 3 1/2-in. pots. CUPHEA 2 1/2-in. pots. SWEET ALYSSUM Double, 2 1/2-in. pots. COLEUS Verschaffeltii, yellow, mixed, 2 1/2-in. pots. VINCA MAJOR 4 ft. long, 4-in. and 5-in. pots. AGERATUM Bine and white, 2 1/2-in. and 3 1/2-in. pots.

PAUL J. BURGEVIN, Port Chester, N. Y. Mention the Florists' Exchange when writing.

BEDDING PLANTS

Per 100 1000 Salvia, 2 1/2 in. \$2.50 \$20.00 Heliotrope, 2 1/2 in. 2.50 20.00 " 4 in. in bloom.. 7.00 60.00 Single Petunias, 2 1/2 in. 2.00 18.00 Tuberous Begonias, extra fine plants from 4 in. pots, \$10.00 per 100.

Larchmont Nurseries LARCHMONT, N. Y. Mention the Florists' Exchange when writing.

Vegetable, Greenhouse and Bedding Plants

VEGETABLE PLANTS

CABBAGE in any quantity. Winingstedt, Early All-Head, Sure-Head, Succession, Early and Late Flat Dutch, Hollander, etc. \$1.00 per 1000; \$8.50 per 10,000.

PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.

CELERY Golden Self Blanching, White Plume, Golden Heart, and other varieties. Small plants for transplanting, 75 cts. per 1000, 5000 (not less) and over, at 50 cts. per 1000.

TOMATOES Earliana, Chalk's Early Dwarf Champion, etc. 30 cts. per 100; \$2.00 per 1000. Acme, Beauty, Stone, Perfection, etc., 25 cts. per 100; \$1.00 per 1000.

PEPPERS Bull Nose, Sweet Mountain, Ruby King, 25c. per 100; \$2.00 per 1000.

Miscellaneous Plants

2 1/2-in. stock in Al condition. Per 100 1000

Ageratum, Stella Gurney..... 40c. per doz.; \$3.00 \$17.50 Alternanthera, yellow and red..... 2.00 15.00 Alyssum, Giant Double..... 40c. per doz.; 2.00 17.50 Aquilegia (Columbine), single mix'd 3.00 Carnations, Marguerite..... 1.50 12.50 Centaurea gymnocarpa..... 1.50 Coleus, in good variety..... 2.00 15.00 Dahlia plants, in var..... 2.00 Digtails (Fox Glove), fine mixed.. 1.50 12.50

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List. Our collection of HARDY POMPOON CHRYSANTHEMUMS is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

R. VINCENT, JR. & SON, White Marsh, Md. Mention the Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

Paris Daisies.

Chrysanthemum frutescens, generally known as marguerites or Paris daisies, are grown on every florist's place. While in most establishments but a few plants are seen, there are some growers who raise marguerites by the thousands in benches every year, thus plainly demonstrating that the culture of this most prolific of blooming greenhouse plants is a paying venture. Although the flowers may not bring a high price, comparatively speaking, they nevertheless rarely miss the early morning sales at the market, and are considered an indispensable item in all the daily orders of retailers. For this reason and because they are so easily raised and never fail to produce great quantities of flowers, marguerites still lay claim to being good things to grow.

It is not at all difficult to strike the cuttings early, at a time when the propagating bed is taxed to its utmost capacity and the propagator's time most valuable. The cuttings of Paris daisies need no bottom heat and will root just as well now as at any time in the winter, and the plants will be of good size for next season, and better than those made early and then perhaps neglected in the general rush of early Spring work. Where large numbers are to be raised, field culture during the Summer will be found the better course to pursue, although, it must be said, marguerites require careful handling in the lifting and benching next Fall. The few dozen plants, usually in evidence on every place of modest pretensions, can be raised to better advantage in pots with other plants of the same category. In this case two or three shifts into larger pots from time to time will make good plants by September or October. It is worth while to give the Paris daisies good culture and care. They produce finer and faster selling flowers in a good, rich and well-prepared soil, than in an ordinary bedding plant compost, and they respond quickly, when coming into bloom, to liquid stimulants regularly applied. The cuttings should be potted up just as soon as they show roots, and the young plants pinched back a few times to encourage a bushy growth.

Stocks.

The best varieties of the ten-week stocks for forcing and general florists' use are Giant Perfection, Snowflake and Beauty of Nice. The first may be sown now in a frame outdoors, and from there transplanted into greenhouse benches, soon becoming empty. The stocks may not prove a better paying crop than good chrysanthemums, but they certainly bring more money than do asters, now so extensively grown under glass. Beauty of Nice I have not sufficiently tried to say

more about it than that it is a fine sort for pots. Snowflake is the best of border plants and surpasses Mme. Sallerol geranium, sweet alyssum and many other like plants as an edging in front or around flower beds, being of a uniform growth, a densely set, spotless white and in bloom all Summer long.

Now is the time to make sowings of the Brompton or Winter stocks. They are the sweetest scented of all this genus, and well-grown plants sell as fast in the Spring as any pot plant in the best assorted collection. The variety Empress Elizabeth and the intermediate strains are all fine for pot culture, coming into bloom much earlier than the true Brompton stock, but being inferior to it in point of fragrance and adaptability as house plants. Sow the seed in a nicely prepared bed outdoors, and prick off the little plants as soon as they offer a hold to thumb and finger. When large enough, plant into good soil in the garden. Keep the bed clean of weeds, hoe often and water sparingly. By the middle of September you will be able to distinguish the double from the single flowering plants. Pull out and throw away the latter, and carefully lift and pot up the former. Give these a stand in a frame, where they can be shaded for a week or so, and then let them have the full sun and freely circulating air until Winter sets in, when they should be removed to the greenhouse. The main point now to be observed is to keep them from growing during Midwinter. A temperature slightly above freezing and plenty of ventilation will do this. In the beginning of March is the best time to start the Brompton stock into actively, and a few weeks suffice to bring them into full bloom. The intermediate sorts cannot be held back so long, and it is best to give them free play. All these kinds of stock make excellent Easter plants.

Double English Wallflowers.

Any number of well-grown potted wallflowers can be sold in the Spring. So far there have never been enough of them raised in this country to fully test their popularity, or value, as market plants. They are so springly grown that most people of our younger generation do not know what a wallflower is like. But they regard it as one of the grandest novelties and the sweetest thing out when beholding a nicely flowered specimen and inhaling its delicious odor. To dispose of the few now grown, at good prices, is easy; neither is it difficult to raise a lot of these fine old plants.

Cuttings of the double varieties may be put in sand now and, when rooted, planted into the open ground. If old plants are not at hand for a batch of cuttings, an attempt must be made to raise them from seeds, which is quite easy to do. A goodly percentage of the seedlings may be expected to come single flowered. Still these are of some value for picking, while single stocks are not. Only the choicest strains of double wallflowers should be bought by florists for pot culture.

This is by far the best time to sow the seeds, and the best place for them—as well as for the cuttings—is the outdoor cold frame. The seeds germinate in a few days. Keep the sashes raised day and night in mild weather, and when the plants are an inch or two high, transplant to an open, sunny spot in the garden, about a foot apart. In September they are lifted and potted up. Any one-sided or unshapely plants are rejected as unworthy of a place among good pot plants. Good, well-enriched soil is to be used in potting, and the newly-potted plants must be shaded for over a week, and after that kept outdoors until hard frosts make their removal to the greenhouse necessary. Here they want a very cool place, lots of air and but little water, until the beginning of March, when a gradual increase in heat and moisture will soon bring them into bloom.

French Single Wallflowers.

I have for years raised single wallflowers for cutting purposes and have found them quite profitable and an excellent crop to follow the early chrysanthemums. The Parisian forcing variety and the one obtainable under the name of Goliath, are the kinds to be used. The flowers of the former range in color from bright canary yellow down to the various tints and shades of old gold, while those of Goliath are a true red. The flowers of either variety are quite large and emit the same peculiar sweet odor, which has

MISCELLANEOUS PLANTS

(Continued) Per 100 1000

Geraniums, Lemon, Mrs. Taylor and Fernfoliate odorata.....\$2.00 Hardy Chrysanthemums, small-flowering varieties..... 2.00 \$17.50 Hardy Chrysanthemums, large-flowering varieties..... 3.00 20.00 Hardy Phlox, 10 named var. 3.00 Heliotrope, good varieties..... 2.00 17.50 Ivy Geraniums, in var. 3.00 Lantanas, 5 varieties..... 2.00 17.50 Maranta Maesaugana..... 4.00 Moonvines, white, 50c. per dozen..... 3.00 25.00 Nymphæa Odorata gigantea, 50c. doz. 3.50 Petunias, Dreer's double mixed 2.50 " Dreer's superb single mixed 2.00 15.00 Phlox, hardy..... 3.00 25.00 Plumbago, Capensis, white..... 3.00 Sage, Holt's Mammoth..... 2.00 15.00 Salvias, in variety..... 2.00 17.50 Smilax, strong..... 2.00 15.00 Swalsona Aiba and Rosea..... 2.00 17.50 Vinca (Madagascar Periwinkle)..... 1.50

GERANIUMS

In good variety, \$2.00 per 100.

Our selection of varieties, 500 for \$8.75; 1000 for \$15.00.

Send for descriptive list.

gained for the old English wallflower a place among our highly prized scented blossoms. The sprays can be cut from 18 to 24 inches long, are stout, and of a woody nature, retaining their freshness for over a week. Sow the seeds now and cultivate the plants in the field. Early in the Fall they are dug up and benched, and from that time until Spring they will produce an abundance of flowers.

FRED W. TIMME.

ENGLISH IVY

Fine plants, out of 5 in. pots, 25c. Out of 4 in. pots, 10c. FORGET-ME-NOT.....\$4.00 per 100 DAISIES.....2.00 " PANSIES.....2.00 " Please send cash with order.

Chas. Zimmer, West Collingswood, Phila. N. J. Mention the Florists' Exchange when writing.

English Ivy

4 in., 2 plants in a pot, \$7.00; 2 1/2 in., \$2.50; 2 in., \$2.00. English Ivy Variegated, 2 in., \$2.00. Vinca Var. Major, 2 in., \$1.75. Rooted cuttings, 75c. Mme. Sallerol Geranium, 2 in., \$2.00. German Ivy, 2 in., \$2.00. Glechoma, 2 in., \$2.00. Sweet William, 2 1/2 in., \$2.00. SEED-LINGS. Gaillardia, gr. fl. mixed; Sweet William, double mixed; Cosmos, tall mixed; Hollyhock, mammoth, extra choice mixed; Pansy, extra choice mixed; Aster, Imp. Victoria, blue; Aster, Imp. Victoria, white, 25c. per 100. Cash on C. O. D.

J. H. DANN & SON, Westfield, N. Y. Mention the Florists' Exchange when writing.

CLOSING OUT—Bargains

Salvia, fine..... \$1.00 per 100 Acarantbus, 2 in..... 1.50 per 100 Ageratum, Blue perfection..... 1.50 per 100 Cobæa Scandens, 3 in..... 50c. per doz Dracena Indivisa, 4 in..... \$1.00 per doz Robusta Cannas, 3 and 4 in..... 3.00 per 100. ORDER QUICK. CASH PLEASE.

WILLIAM KEIR, Pikesville, Md. Mention the Florists' Exchange when writing.

COLEUS

To close out, fine large 2 1/2 in. stock, assorted varieties, \$1.50 per 100; Golden Bedder, \$1.75 per 100. Heliotrope, 2 1/2 in., \$2.00 per 100; 3 and 4 in. large, \$5.00 per 100. Boston Ferns, 3 in., \$4.00 per 100. Cash, please.

W. H. PARSIL, Summit, N. J. Mention the Florists' Exchange when writing.

SEE BEFORE YOU PAY

Stock will be sent C. O. D. if so ordered.

COLEUS TO PLANT AT ONCE AT A BIG PROFIT

Fine bushy plants, from soil, heavy rooted, Verschaffeltii, Golden Bedder, Giant, 75c. Fancy and finest grade, all very bright, 65c. per 100. Very extra heavy, \$1.30 per 100. Any quantity. ALTERNANTHERA Bushy plants from soil. Red Rng., very fine, 80c. per 100. A. Nana, extra strong, 50c. per 100. All large enough to plant out at once.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

COLEUS

Verschaffeltii, Golden Bedder and others, 2 in. pots, \$1.50 per 100; \$15.00 per 1000.

Ageratum, Pauline and Gurney, 2 in. pots, \$1.50 per 100. Marguerite Carnations, 2 in., \$1.50 per 100. Astera, Verhena, Phlox, 2 in. pots, \$1.00 per 100. Salvia, Heliotrope, Vinca Variegata, Alyssum, 2 in. pots, \$2.00 per 100; 3 in. pots, \$3.00 per 100. Alternanthera, P. Major, and A. Nana, 2 in. pots, \$1.50 per 100; \$15.00 per 1000. Geraniums, S. A. Nutt and Double White, 2 in. pots, \$2.50 per 100; 3 in. pots, \$3.50 per 100. Pansy Plants, in bloom, 75c. per 100; \$5.00 per 1000.

CASH WITH ORDER

ERNEST HARRIS, Delanson, N. Y. Mention the Florists' Exchange when writing.

SMILAX SPRENGERI

Well grown carefully packed plants in any quantity. Well grown carefully packed plants in any quantity.

\$1.50 per 100; \$12.50 per 1000 \$2.00 per 100; \$15.00 per 1000 150,000 TO SELECT YOUR ORDER FROM

Plumosus-Dellexus-Decumbens-Pansies-Geraniums SEND FOR SUMMER PRICE LIST ALBERT M. HERR, Lancaster, Pa.

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Wholesale Commission Dealer in Cut Flowers
 Telephone, 106 W. 28 St., NEW YORK Open at
 167 Mad. Sq. 6 A. M.
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 Prompt Payments
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Wholesale Florists
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 Consignments solicited. Out-of-town orders care-
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Sixth Ave. and 26th St.
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 Open every Morning at Six o'clock for the Sale of
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 Always ready to receive Fine Stock

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30 West 29th Street
 Phone, 651 MADISON SQ. NEW YORK
 Violets, Roses, Carnations, Orchids
 ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED
 CARNATION
"VICTORY"

To be disseminated 1906. Also a complete line
 of choicest flowers.

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Telephone Call, 56 Madison Sq.
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JAMES McMANUS Telephone 759
 Madison Square 50 W. 30th St., New York
 Beauties, Meteors, Brides and Bridesmaids are the leaders.
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
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 SPECIALTIES—Violets, Carnations and Roses
 Shipping orders receive prompt attention. Consign-
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Wholesale Prices of Cut Flowers, New York, June 2, 1905.

Prices quoted are by the hundred unless otherwise noted.

A. BEADY, fancy—special extra	10.00 to 20.00	8.00 to 10.00	InPr grades, all colors.....	.50 to .75
" " No. 1	6.00 to 8.00	4.00 to 5.00	STANDARD White.....	.50 to 1.00
" " No. 2	4.00 to 5.00	1.00 to 2.00	RED Red.....	.50 to 1.00
" " No. 3	1.00 to 2.00	2.00 to 3.00	Yel. & Var. White.....	.50 to 1.00
Bride, 'Maid, fancy—spe'l extra	3.00 to 5.00	.50 to 1.00	"FANCY— White.....	1.00 to 2.00
" " extra	2.00 to 3.00	to .50	(*The highest grades of standard var.) Pink.....	1.00 to 2.00
" " No. 1	.50 to 1.00	1.00 to 5.00	Red.....	1.00 to 2.00
" " No. 2	to .50	3.00 to 15.00	Yel. & Var. (NOVELTIES)	1.00 to 2.00
Golden Gate	1.00 to 5.00	1.00 to 4.00	LILIES	1.00 to 2.50
Liberty	3.00 to 15.00	1.00 to 4.00	LILY OF THE VALLEY	4.00 to 5.00
Meteor	1.00 to 4.00	1.00 to 4.00	MIGNONETTE, ordinary	.50 to .50
Mme. Abel Chatenay	1.00 to 4.00	.50 to 1.00	PANSIES, per dozen bunches	2.00 to 3.00
ADIANTUM	.50 to 1.00	25.00 to 50.00	PEONIES	3.00 to 6.00
CROWANUM	to 1.50	6.00 to 10.00	SMILAX	8.00 to 10.00
ASPARAGUS	to 1.50	3.00 to 4.00	STOCKS, per bunch	.25 to .35
" Sprengeri, bunches	6.00 to 10.00	25.00 to 75.00	SWEET PEAR	.50 to 1.00
CALLAS	3.00 to 4.00	.....	.....	.....
CATTLEYS	25.00 to 75.00	.....	.....	.....
DAISIES	.35 to .50	.....	.....	.....
GLADIOLUS	4.00 to 6.00	.....	.....	.....
IRIS	1.50 to 2.00	.....	.....	.....
LILAC, per bunch	.05 to .10	.....	.....	.....

WALTER F. SHERIDAN

Wholesale Florist
 Telephone, 902
 Madison Square 39 WEST 28TH ST., NEW YORK
 ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
 Meteor, Lily of the Valley, Carnations
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 Madison Square JOHN I. RAYNOR, 49 West 28th St., NEW YORK

Edw. C. Horan

55 West 28th St., NEW YORK
 TELEPHONE, 1462-1463 MADISON SQUARE
CUT FLOWERS AT WHOLESALE

Boston.
 The Week's News.
 Superintendent Pettigrew, of the Park Department, has been experimenting in one of the most infested districts in the city of Melrose with the destruction of the gypsy moths by spraying. The work is being done under the auspices of the Society for the Promotion of Agriculture, and a section of some ten acres of woodland near the Middlesex Fells selected for the purpose of these experiments. It had been asserted that spraying was ineffectual in the case of these insects, as the strongest poison used did not seem to affect them any. Arsenate of lead is being used by Mr. Pettigrew, and with the powerful machinery he uses and the systematic way of doing the work, there is no question but that these insects can be destroyed by spraying at a much less cost than by any other way. R. & J. Farquhar & Co. are making extensive changes at their greenhouse plant at Rosindale. The increase of their business demands larger packing rooms, and the erection of these will be started at once.
 James Farquhar expects to leave for Porto Rico in the near future to look after his lily plantations there.
 The Boston Globe, which has been having a series of articles on horticultural topics in its Sunday edition, contained last Sunday an article on the Langwater Gardens of the Ames' Estate at North Easton, where W. N. Craig is in charge.
 Callas of any kind never gave W. W. Tailby the happy smile he wears these days; it's a girl.
 Leonard Barron, New York, was in town this week. J. W. DUNCAN.

Philadelphia.
 Trade Items.
 Memorial Day business proved very good. All the commission houses were taxed to their full capacity, most of them working all day Sunday getting off orders for distant points. Shipping business was very brisk this year—better than for several years past.
 In the center of this city it was noticed that Memorial Day did not bring so much trade as in past years. Some ten years ago immortelle designs were very numerous. Nearly every store had three or four large ones to make, but these are not so numerous now. All the growers near the cemeteries report a big business; more geraniums could have been sold, many not in bloom being left on hand.
 Bayersdorfer & Co. report an unusual large business the past two weeks; the stock of wreaths was never so low as at present. Nearly all the samples in the show cases even are gone, owing to the urgent demand. The firm is now very busy on orders for June weddings, etc.
 L. Reuter takes possession of the establishment of Samuel J. Bunting on Thursday, having leased the place. DAVID RUST.

Gets \$15,000 Verdict.
 Mrs. Ruth Standen, wife of Harry G. Standen, a well-known florist of Haverford, recovered a verdict for \$5,000 damages against the Pennsylvania Railroad Company before Judge Beltier, in Court of Common Pleas No. 1, last week, for personal injuries received, and her husband was awarded \$10,000 damages by the same jury to compensate him for the loss of his wife's services and reimburse him for medical expenses. The accident occurred on the afternoon of August 3, 1904. Mrs. Standen was a passenger on a train from Broad street station, and when the train arrived at Haverford she started to leave the car, but as she was going down the steps the train started with a sudden jolt, which threw her backward. Two of her ribs were broken and she suffered a more serious injury to the base of her spine, which resulted in progressive paralysis.

PATERSON, N. J.—A scarcity of geraniums, coleus, etc., last Saturday led to a sharp advance in prices. Fair to good geraniums brought 15c. readily. The street market, which is usually in a state of collapse, was highly elated over the sudden turn of affairs for the better.
 David Thurston's new store on Van Houten street seems likely to be a permanent fixture. Mr. Thurston is doing a good business.

The Florists' Exchange

PEONIES THE PHILADELPHIA CUT FLOWER CO.
CARNATIONS, ROSES, Etc. 1516 and 1518 Sansom St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FOR JUNE COMMENCEMENTS AND WEDDINGS

we have SMILAX, ASPARAGUS, and the finest American Beauty Roses. Also everything else in seasonable flowers.

Mention the Florists' Exchange when writing.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

SAMUEL S. PENNOCK { THE Wholesale Florist of Philadelphia } **PEONIES for June Weddings**

Mention The Florists' Exchange when writing.

FANCY CARNATIONS AND ROSES **PITTSBURG CUT FLOWER CO., Ltd.**
 504 Liberty Ave., PITTSBURG, PA.

NEW CROP FANCY and DAGGER FERNS

READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.

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Special Quantity Prices on Application

E. A. BEAVEN, Evergreen, Alabama

SCRANTON FLORIST SUPPLY COMPANY 201 North Seventh Ave. SCRANTON, PA.
 Importers and Manufacturers of ALL FLORISTS' SUPPLIES, RIBBONS AND GIFFONS
 Send for Catalogue

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CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON
Carnations, Roses and Spring Flowers 11 South 16th Street, PHILADELPHIA

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Sheep Manure
 Pulverized. Free from all Adulteration.
 In Bag, \$18.00 per Ton.
 Special price on car load lots in bulk.
ROBERT SIMPSON
 Clifton, N. J.
 Mention the Florists' Exchange when writing.

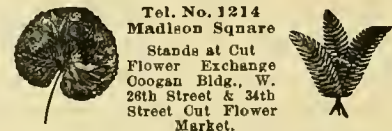
STANDARD FLOWER POTS
 Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 1/2 in. pots in crate, \$4.88	120 7 1/2 in. pots in crate, \$4.20
1500 2 1/4 " " " 5.25	60 8 " " " 5.00
1500 2 1/8 " " " 6.00	48 9 in. pots in crate, \$3.60
1000 8 " " " 6.00	48 10 " " " 4.80
800 8 1/2 " " " 5.80	24 11 " " " 4.80
500 4 " " " 4.50	24 12 " " " 4.80
320 4 " " " 4.51	12 14 " " " 4.80
144 6 " " " 3.16	6 16 " " " 4.50

Send pans, same price as pots. Send for price list of cylinders for cut flowers, hanging baskets, lawn vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N.Y.
 August Rolker & Sons, Agts. 81 Barclay St., N.Y. City
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N. LEGAKES & CO.
 53 W. 28th St., NEW YORK



SPECIALTIES: Galax Leaves, Ferns and Leucotoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves
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NEW CROP FERNS now ready, \$1.50 per 1000. Galax, Brilliant Bronze or Green, 75c. per 1000. Use our LAUREL FEETOOTING for your June decorations. It gives the best satisfaction of any decorat. vs. green at this time of the year. Sample lot on application. We make it daily, gathered fresh from the woods. Hand-made, full sizes, 4c. 6c. and 6c. per yard. Once used, always used. BRANCH LAUREL, 35c. per lb. bundle. PRINCESS PINE, by the pound, or made into feasting if desired.

Tell us your wants; we will do the rest. Telephone and telegraph orders will receive immediate attention.



Telegraph Office: New Salem, Mass.
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wishing to do business with Europe should send for the

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SOUTHERN SMILAX
 Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75.
 GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000.
 LEUCOTHE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000.
 Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per bbl. sack, \$2.60.
 All Kinds of Florists' Supplies.
 L. J. Kreshover, 112 West 27th Street, New York
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JAPANESE MOSS

Packed in paper cartons. "Moss and nothing out Moss"; no sticks or dirt. Less than half the price of German Moss.

L. WERTHEIMER & CO., Foreign & Domestic Specialists, 39 Barclay St., New York.
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WM. DILGER, Manager
 FANCY FERNS, \$1.50 per 1000.
 DAGGER FERNS, \$1.50 per 1000.
 38-40 Miami Ave., Detroit, Mich.
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SPHAGNUM MOSS
 \$1.50 per 8-bbl. bale; in burlap, \$2.00

PEAT
 \$1.00 per 1-bbl. bag.

F. O. B., New York City. Cash with all orders.
E. R. BAKER, NEW YORK CITY
 Pler 34 N. R.
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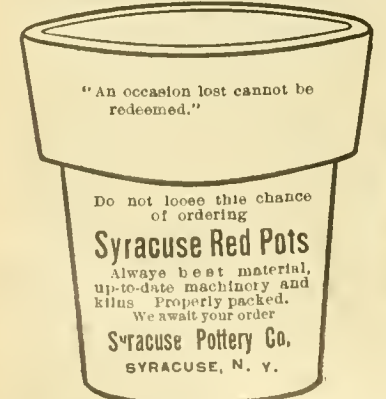
BOOKS

- GARDENER'S ASSISTANT, \$15.00
- Write for Prospectus
- VIOLET CULTURE, 1.50
- THE HEATHER, 1.50
- AMERICAN CARNATION, 3.50
- PLANT CULTURE, 1.00
- RESIDENTIAL SITES, 2.50
- TELEGRAPH CODE, 2.50

THE FLORISTS' EXCHANGE, 2 Duane St., New York



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Best kind, best of its kind for all hand work, is the

Success Knapsack Sprayer

Knapsack and Bucket Sprayer Combined.

Brass pump with bronze hall valves, 5 gal. copper tank, mechanical agitator; pump worked with either hand. Arranged for easy carrying and handling.

WE MAKE 20 STYLES SPRAYERS. Hand, Bucket, Knapsack, Barrel, Field, Power. We meet all wants. Send for free catalog.

THE OENING CO., SALEM, OHIO.
 BENJON & HUBBELL, Western Agts., Chicago.

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HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?

It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of one hundred Pounds.

	Per doz.
No. 1 will fit from 2 to 5-inch pots	30c.
No. 2 will fit from 5 to 8-inch pots	40c.
No. 3 will fit from 8 to 12-inch pots	50c.

By mail 10c. extra per doz. Sample pair 10c. postpaid. See last week's issue for advertisement of Florists' Letters, etc.

1164-68 W. C. KRICK, Greene Ave. Brooklyn, N.Y.

Mention the Florists' Exchange when writing.

STANDARD FLOWER POTS
 THE WHILLDIN POTTERY COMPANY

PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
 Mention the Florists' Exchange when writing.

St. Louis.

The Week's News.

A banquet was tendered Fred C. Weber and Theo. Miller on Friday night by only a few of their many friends, at the Missouri Athletic Club. Of the 100 members of the St. Louis Florists' Club only nineteen attended, not out of any disrespect to Messrs. Weber and Miller, but through the bad management of the person who took charge of the affair, ignoring the heads of the local club, President Juengel and Vice-President Pilcher. The insult to these respective members was too much, and the result was that what could have been made a very enjoyable affair turned out very tame, something that was keenly felt by those present, who were ignorant of how the thing had been managed.

The regular June meeting of the Florists' Club will take place at John Steidle's place in Central, Mo., Thursday afternoon, June 8, at 2 o'clock. The members are requested to bring their ladies who will be entertained by Mrs. Steidle. Quite a number of very important matters will come up for discussion. Mr. Steidle expects every member to attend and make this the banner meeting of the year. A good time is in store for all.

George Wagner, who conducted the floral store at Maryland and Euclid avenues, formerly operated by E. H. Michel, has closed up the business.

Henry Johan, C. A. Kuehn, and Fred Ammann, paid a visit to their old friend, Max Herzog, who is selling out his stock, intending to retire from business.

Fred C. Weber and Theo. Miller left here Sunday night for New York. They sailed on the steamer Hamburg Thursday, June 1, for a two months' trip to Germany. Both will return in time to attend the S. A. F. O. H. convention at Washington in August.

The rain storm on Monday night kept many of the bowlers away from the alleys. Four braved the storm, and rolled four games, totalling as follows: Kuehn, 461; Beneke, 451; Gerlach, 384, and R. Meinhardt, 347. Next Monday night two silver match boxes will be contested for. ST. PATRICK.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

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Samples free. For sale by dealers.

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Wholesale Growers of

CUT FLOWERS

Prompt attention given all orders.

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WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS.

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Headquarters in Western New York



For ROSES, CARNATIONS And all kinds of Seasonable Flowers.

WM. F. KASTING

Wholesale Commission Florist

ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS

383-87 Ellcott St.

BUFFALO, N. Y.

GIVE US A TRIAL

WE CAN PLEASE YOU

Mention the Florists' Exchange when writing.

Wm. J. BAKER

Wholesale Florist

1432 S. Penn Square, PHILADELPHIA, PA. Seasonable Cut Flowers Fine Quality Both 'phones.

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DUMONT & CO.

Wholesale Florists

Carnations a Specialty

No. 1305 Filbert St., Philadelphia Bell and Keystone 'Phones.

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Wholesale Florist

1235-37 FILBERT STREET

"Philadelphia Wholesale Flower Market Bldg." PHILADELPHIA, PA.

Bell and Keystone 'Phones. We can use more CHOICE SWEET PEAS and EARLY ASTERS.

Mention the Florists' Exchange when writing.

EDWARD REID

Wholesale Florist

1526 Ranstead Street, PHILADELPHIA

bet. Market and Chestnut Streets

Choicest Stock Always on Hand Telephone 1-42-26-A.

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A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE.

E. F. WINTERSON CO., Established 1884 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

J. B. DEAMUD

Successor to Illinois Cut Flower Co.

Wholesale Cut Flowers

Consignments Solicited.

51 and 53 Wabash Avenue, CHICAGO

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GEO. REINBERG

Wholesale Grower of Cut Flowers

CHOICE AMERICAN BEAUTY ROSES

We will take care of your orders at reasonable prices. Prompt attention.

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WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO

VAUGHAN & SPERRY

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WHOLESALE FLORISTS

All Cut Flowers at Retail Market Prices.

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Wholesale Commission Florist and Dealer in all Florists' Supplies

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Correspondence Invited from Growers of Specialties in Cut Flowers

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Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, and St. Louis. Rows include various flower types like A. Beauty, Roses, Orchids, Carnations, etc.

J. B. MURDOCH & CO.

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Long Distance 'Phone, 1436 Court.

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WHOLESALE FLORISTS

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228 DIAMOND STREET

Send for weekly price list and prices on large orders. Pittsburg, Pa.

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WELCH BROS.

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15 PROVINCE ST.—9 CHAPMAN PL.

Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6267 and 6268

Asparagus Plumosus Mignonette Chrysanthemums Lily Marisli Brides, 'Malds American Beauties

Kaiserins Violets Carnots Orchids Valley Carnations

H. G. BERNING

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1402 Pine Street, ST. LOUIS, MO.

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HOLTON & HUNKEL CO.

Wholesale Florists

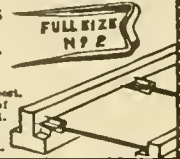
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Manufacturers of Wire Designs.

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Importers and Manufacturers of **FLORISTS' SUPPLIES** Gulax Leaves and Decorative Greenery
New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.
Mention the Florists' Exchange when writing.

Holds Glass Firmly
See the Point at FULL SIZE N.P.E.
PEERLESS
Glazing Panels are the best. No ribs or lugs. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
716 Chestnut St., Phila., Pa.

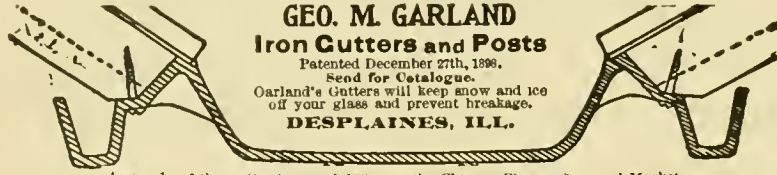


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We are the makers of the **MODEL GLAZING POINT MODEL TOMATO SUPPORT**
Write for booklet of prices.
PARKER-BRUEN MFG. COMPANY, Inc.
1135 Broadway, New York,
Factory HARRISON, N. J.
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HOTHOUSE GLASS
and GREENHOUSE PUTTY a Specialty.
C. S. WEBER & CO.
10 Desbrosses St., New York
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GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Orland's Gutters will keep snow and ice off your glass and prevent breakage.
DESPLAINES, ILL.



A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

THE JENNINGS IMPROVED IRON GUTTER
PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.
SEND FOR CIRCULARS **DILLER, CASKEY & CO.** Successors to JENNINGS BROS.
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GREENHOUSE MATERIALS
The Best Quality and Work Guaranteed.
CYPRESS SASH BARS Absolutely clear, sun dried; cut to exact sizes.
TENN. RED CEDAR POSTS In lengths as wanted.
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Get our Estimates, Plans and Suggestions on Structures Proposed. Illustrated Catalogue sent postpaid.
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Scollay Invincible Boilers
FOR HOT WATER AND STEAM.
Boilers that respond quickly and are unequalled for their efficiency, simplicity of construction and economy of fuel.
Greenhouse Pipe and Fittings
Genuine Wrought Iron Pipe (not steel) 2 in., 10 3/4 c. per foot.
Horticultural building of every description.
JOHN A. SCOLLAY
72-74 Myrtle Ave., Borough of Brooklyn
NEW YORK CITY.
Established 42 Years

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Newport, R. I.

News Notes.

The executive committee of the Newport Horticultural Society held a special meeting last Saturday evening, and completed, with the special committees on advertising and exhibitions, the annual schedule of prizes for the two large shows, to be held this Summer in the Newport Casino. The first of these exhibitions will be the Rose and Strawberry Show, June 27, 28, and 29; the great exhibition of the year will be September 11, 12, and 13.

The George A. Weaver Company gave an exhibition of the workings of the Coldwell gasoline lawn mower, on the lawn of the Newport Casino on Decoration Day. This machine has a maximum cutting speed of eight miles an hour; cuts 40 inches wide, and is constructed with a powerful roller. For power an 8 horse-power gasoline motor is used.

Wadley & Smythe are busily engaged getting their establishment in the Casino ready for opening for the season early in June. Mr. Smythe himself has been over from New York for several days looking after matters.

The regular monthly meeting of the Park Commissioners was held last Tuesday afternoon, when the new member, Admiral Chadwick, was present for the first time since his appointment.

The advertisement of the Grand Army, asking the citizens of Newport to contribute flowers for Memorial Day uses, brought wonderful response in a great quantity of both outdoor and greenhouse flowers.

Ralph Armstrong is getting Messrs. Siebrecht & Sons' Bellevue avenue store in order for opening for the season. Mr. Armstrong had charge of their establishment here last Summer, and we are all glad to see him again.

James J. Mulry has been here representing Reed & Keller, of New York. They are already booking orders for Christmas bells for next December.

William B. Scott & Co. have had a splendid run on bedding plants, of which they have carried a large and well-grown stock all the season. Geraniums have led the sales at \$1 per dozen; smaller plants like asters, stocks, cosmos, and salvias, 50c. per dozen.

J. M. Thorburn & Company's Noroton Beauty potato is so far doing very well indeed with those of us who are trying this new variety. It is a very vigorous grower, and we are watching it with much interest.

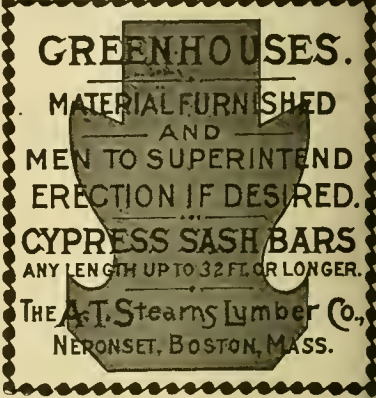
Dahlias are more popular than ever here this season: The L. K. Peacock Inc. Co., of Atco, N. J., are supplying a great many of their new cactus and Century single sorts, through their distributing agents here. F. W.

Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

HASLAM LIME CO.
Manufacturers of ONLY OYSTER SHELL LIME
118 to 130 Cliff St. Scranton, Pa.
Mention the Florists' Exchange when writing.

GREENHOUSES.
MATERIAL FURNISHED AND MEN TO SUPERINTEND ERECTION IF DESIRED.
CYPRESS SASH BARS ANY LENGTH UP TO 32 FT. OR LONGER.
THE A. T. STEARNS LUMBER CO.,
NEPONSET, BOSTON, MASS.



Mention the Florists' Exchange when writing.

Clipper Lawn Mower Co. DIXON ILL.
The MOWER
that will Kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1-12-in. Mower, \$5.00; No. 2-16-in. Mower, \$6; No. 3-18-in. Mower, \$7; No. 4-21-in. Mower, \$8. Send draft money order or reg. letter.
Mention the Florists' Exchange when writing.

The Only **Perfect Tomato and Plant Support**
Made of Heavy Galvanized Wire and will not rust.
Height, complete, 34 inches.
Height of bottom section, 24 inches.
Height of top section, 12 inches.
Diameter of circle, 14 inches.
Model Carnation Supports Galvanized Rose Stakes and Tying Wire
IGOE BROS.
226 North 9th Street
BROOKLYN, N. Y.



THE MODEL TOMATO SUPPORT.
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GREENHOUSE LUMBER

OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

This is the very best material now offered to the trade for greenhouse construction.

We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us.

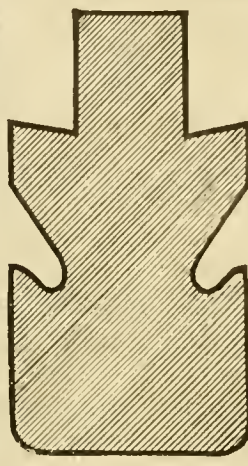
Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS · IRON FITTINGS · HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.



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GULF CYPRESS GREENHOUSE MATERIAL

Is the Present Time

If you want the best quality send us your orders.

Our wood work is well finished by special machinery, is air dried, free from imperfections and durable.

Write to our New York Office for circular and prices.

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GLASS

For Greenhouses, Graperies, Hotheads, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

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CYPRESS



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COSTS LESS and does better work. Send for Descriptive Price List

J. D. CARMODY
EVANSVILLE, IND.

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EDMUND WEATHERED

ACT., Formerly of THOS. W. WEATHERED'S SONS

Greenhouse Heating and Building

Office: 101 WEST ST., NEW YORK

For Sale, Second Hand:

3 No. 6, 2 No. 5, 1 No. 3 Weathered Boilers; 4 No. 17, 3 No. 16, 1 No. 54 Hitching Boilers; 11,000 feet 4-inch Hitching Pipe; 4,300 feet do. Weathered. Valves, Fittings and Tanks for 4-inch Pipe; 2,800 feet 1-inch Hitching Ventilation; 830 feet do. Weather-d. 1 1/2 Span Hitching Iron Frame Greenhouse, 18 ft. 6 in. x 267 ft.; 1 do. 116, complete.	450 Boxes of Glass, 16 x 24 ins.; 310 do., 12x14-16; 70 do., 10x12 and 14. A double thick French. 1 8-inch Rider Hot Air Pump; 1 10-inch do.; 1 Gould Pump. New Material for one Greenhouse, wooden construction, iron Purlinea and Columns, all Hardware Posts; 32x375 ft. Bargain.
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Let Me Estimate on Your Heating and Building

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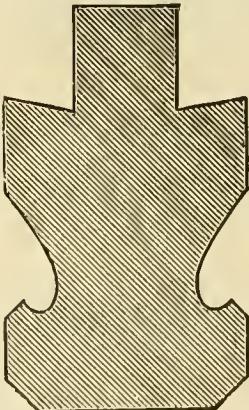
HEATING HEATING

Let me furnish facts why you should give me your Heating Work.
I have convinced others. Why not you?

Write for Prices on HEATING SUPPLIES of All Kinds.
Eastern Agent Furman and Kroeschell Boilers

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GULF CYPRESS Greenhouse Material

Cut and Spliced Ready for Erection

Hot Bed Sash

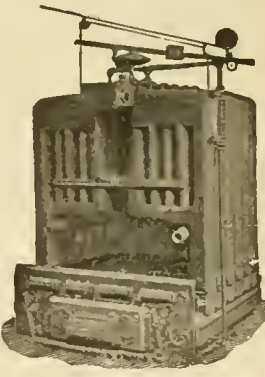
Pipe, Fittings, Ventilating Apparatus

GREENHOUSE GLASS

We furnish everything for Building

Heating Installed

Send for Prices and Catalogue



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Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of Construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the best that Can be Produced

Catalogue, plans and estimates free on request.

A. DIETSCH CO., Patentee, 615-521 SHEFFIELD AVE., CHICAGO, ILL.

"Absolutely Safe and Reliable."
Ask your friends.

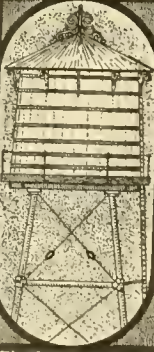
Our Factory Buildings

occupy five acres, but if we were to cover all the walls with pictures of the

TANKS and TOWERS

we have built, there would not be space enough to hang them all. Yet we have only been in the business twenty-five years. Write for our Catalogue.

THE W. E. CALDWELL CO., Louisville, Ky.



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KING CONSTRUCTION COMPANY

North Tonawanda, N. Y., and Toronto, Canada.

New Greenhouse Catalogue ready for distribution. Send for it.

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The Florists' Hail Association

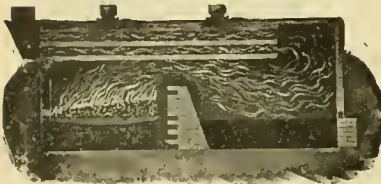
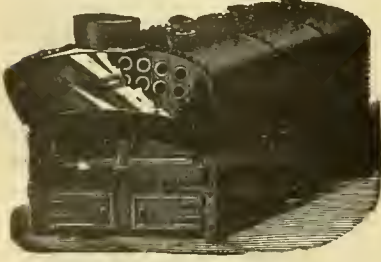
of America has paid \$40 losses in 18 years amounting to over \$79,000. For particulars address

JOHN C. ESLER, Saddle River, N. J. Mention the Florists' Exchange when writing.

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IMPROVED

Greenhouse Boiler

33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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ASPARAGUS PLUMOSUS, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 in. pots, 50c. per doz., \$3.00 per 100; from date, \$1.50 per 100.

ASPARAGUS SPENGLERII, strong, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 1/2 in. pots, 50c. per doz., \$3.00 per 100; from date, \$1.00 per 100.

ALTERNANTHERAS, strong, red and yellow, 2 1/2 in. pots, \$2.50 per 100.

ABUTILON SAVITZII, 2 in. pots, 50c. per doz., \$3.00 per 100.

APELOPSIS VEITCHII, 4 in. pots, \$1.50 per doz., \$10.00 per 100.

BOUVARDIA HUMHOLDTII, for Summer flowering, 2 in. pots, \$3.00 per 100.

BOUVARDIA, single, white, 2 1/2 in. pots, 50c. per doz.; \$3.00 per 100.

COLEUS, Golden Bedder and Verschaffelii, 2 1/2 in. pots, \$2.50 per 100.

CLEMATIS, large flowering varieties, 4 1/2 in. pots, \$3.00 per doz.

CLEMATIS PANICULATA, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 1/2 in. pots, 50c. per doz., \$3.00 per 100.

DRACENA INDIVISA, 3 in. pots, 75c. per doz., \$5.00 per 100; 2 1/2 in. pots, 50c. per doz., \$3.00 per 100.

NEW PARIS DAISY, Queen Alexandra, 3 in. pots, \$2.00 per doz.

ECHVERIA Secunda Glauca, \$3.00 per 100.

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

IVY, Hardy English, 4 in. pots, \$1.50 per doz., \$10.00 per 100.

MOONVINE, 3 in. pots, 75c. per doz., \$5.00 per 100.

NICOTIANA SANDERAE, strong, 4 in. pots, \$2.00 per doz.

SALVIA, Splendens, Bonfire and Silver Spot, 2 1/2 in. pots, \$2.50 per 100.

SALVIA Splendens, 3 in. pots, 75c. per doz., \$5.00 per 100.

STOKESIA CYANEA, 2 1/2 in. pots, 75c. per doz., \$5.00 per 100.

MYOSOTIS, Summer flowering, in bloom, clumps, \$4.00 per 100.

PANSIES, in bloom, separate colors, yellow, blue and white, \$2.00 per 100.

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PASSIFLORA, Coerulea and Pfordii, 4 in. pots, \$1.00 per doz.

C. EISELE, 11th & Jefferson Sts., PHILADELPHIA, PA. Mention the Florists' Exchange when writing.

Tuberous-Rooted Begonias

\$1.50 per doz.

CANNAS Mixed varieties, 5-in. pots, \$8.00 per 100.

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For Hot Water or Steam

HOT WATER Radiation from 4,200 Square Feet and Up.

STEAM Radiation from 2,500 Square Feet and Up.

Send four cents postage each for fully illustrated catalog on Greenhouse Construction and Heating and Ventilating.

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Horticultural Architects and Builders
233 Mercer St., NEW YORK.
ESTABLISHED 1844.

THE PIERSON-SEFTON CO.
Horticultural Architects and Builders,
West Side Avenue, JERSEY CITY, N. J.



WE MANUFACTURE EVERY TYPE OF GREENHOUSE
RED GULF CYPRESS GREENHOUSES,
FLAT IRON FRAME RAFTER GREENHOUSES,
PATENT IRON "U" BAR FRAME GREENHOUSES,
for both private and commercial purposes.

WE ALSO MANUFACTURE Hotbed Sash and Frames Self-locking Vent-opening Apparatus. Wood and Iron Frame Benches and Tables, Special Hand-made Greenhouse Putty.

Our PIERSON BOILERS have established a reputation for economy. We would like to tell you about them. Let us send you particulars and testimonials.

Write to-day for prices.

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EUREKA GREENHOUSES
Send for catalogue Get the best
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The name of OUR preparation is NICOTICIDE.

THE MAXWELL MFG. CO., Department F., LOUISVILLE, KY.

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MASTICA FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St., NEW YORK



The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation. The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market. The Standard Return Steam Trap has no equal for simplicity or its working. Catalogue free.

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Weddings and Commencements
are numerous during June. Are you prepared?
We have a large assortment of
Baskets, of all styles and sizes.
Fibre Ribbon, Fancy Pot Covers.
Crepe Paper, two-toned, and of all shades of color.
Porto Rico Mats

H. BAYERSDORFER & CO.
FLORISTS' SUPPLIES
50 to 56 North 4th Street PHILADELPHIA, PA.
Mention The Florists' Exchange when writing.

THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 23

NEW YORK, JUNE 10, 1905

One Dollar Per Year

NEPHROLEPIS PIERSONI ELEGANTISSIMA (The Tarrytown Fern)

We have a grand lot of this in 6-inch and 8-inch pots—fine specimens, for which we have a splendid demand. Retail florists find this one of the best selling plants ever handled, even at the present novelty prices. We can supply 6-inch plants at \$2.00 each, and 8-inch at \$3.00 each.

Now is the time to obtain a supply of this in small plants and grow it on for retail trade. We have a splendid lot of very strong, heavy established plants in 2½-inch pots, which, if shifted at once, will make grand stock for fall. Price, \$50.00 per 100. These are not light rooted runners from bench, but are strong established plants from 2½-inch pots.

We also offer a lot of

PIERSON FERNS In large sizes for immediate sale for summer decoration. 6-inch at 50c. each; 8-inch at \$1.00 each; 10-inch at \$1.50 to \$2.00 each. Larger specimens, \$3.00 each.

NEPHROLEPIS SCOTTII Fine plants, 6-inch pots. \$1.00 each; 8-inch, \$2.00 each.

ADIANTUM CROWEANUM Extra fine plants, 6-inch pots, extra fine for immediate use or for growing on, \$6.00 per dozen.

KENTIAS FOR DECORATING We have a nice stock of large plants which have been grown in a very low temperature all winter, and consequently are hardy and splendid for decorating, as they will stand a good deal of knocking around. Florists who need large stock for decorating or for hotels, piazzas, etc., in exposed places will find this stock unusually satisfactory. We offer various sizes from \$6.00 to \$15.00 each, according to size.

EXTRA LARGE FICUS FOR DECORATING We have some plants, grown in tubs, several plants in a tub, and in consequence are very well furnished, and very bushy, ranging in height from five to ten feet. Splendid for hotels, piazzas, etc., and useful for decorating. \$5.00 to \$10.00 each.

DRACAENA INDIVISA Fine stock in 6-inch pots, the most useful size for florists' use. 50c. each.

ENGLISH IVY Strong plants, 3½-inch pots, \$12.00 per 100.

GERANIUMS Double General Grant, La Favorite, Duc de Montmart, Paunpeck, etc. strong plants, 3½-inch pots, \$8.00 per 100.

SALVIA SPLENDENS (Scarlet Sage). Fine strong plants, \$4.00 per 100.

ANTIRRHINUM (Snapdragon). Separate colors, \$6.00 per 100.

F. R. PIERSON CO., Tarrytown-on-Hudson, N.Y.

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Austria

Italia

Queen Charlotte

Florence Vaughan

Beaute Poitevine

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Mme. Crozy

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Fair Persian

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Peach Blow

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Alphonse Bouvier

Flamingo

¶ We have still a limited quantity of each of the above Standard Varieties, in good condition, and offer them until sold, at 50 cts. per dozen; \$3.50 per 100.

STARTED CALADIUMS (ELEPHANT EARS)

75 cts. per dozen; \$5.00 per 100.

¶ See our ad. in last week's issue for specially reduced prices on ASPARAGUS PLUMOSUS NANUS and KENTIA SEED. Also COLLECTED ORCHIDS and PURE CULTURE MUSHROOM SPAWN



CLUCAS & BODDINGTON CO. 131 WEST 23d STREET, N. Y. CITY

Telephone, 1063 Chelsea

PALISADE NURSERIES, SPARKILL, N. Y.

Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

THIS IS A SAMPLE OF MY GRAFTED STOCK

EXCEPTIONALLY STRONG
HEALTHY PLANTS OF

Bride, Bridesmaid
Kaiserin, Carnot
and Liberty

In 2½ Inch and
4 Inch Pots

I can also supply extra fine large plants of the above varieties on their own roots. All my stock is clean and free from disease.

SEND FOR SAMPLES

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BRIGHTON, MASS.



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Peony and Carnation
Specialists

Large Tree Moving
Landscape Development

COTTAGE GARDENS CO.

Queens, L. I., N. Y.

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VASES, 4-2-2: \$4.00 a Pair
WINDOW BOXES, 2-1-1 \$1.00
RUSTIC HANGING BASKETS
 10 in., \$1.00; 12 in., \$1.15; 15 in., \$1.50 Each



- NICO-FUME LIQUID ¼ pt., 50c.; pint, \$1.50
Useful for Spraying and Vaporizing
- APHIS PUNK per box 12 rolls, 60c.
- " " per case 12 boxes, \$6.50
- SULPHUR 10 lbs., 40c.; 100 lbs., \$3.50
The best Curative for Mildew
- LIBERTY HOSE, ¼ in. in 25 or 50 ft. lengths, 10c. per foot.
- SHEEP MANURE \$1.25 per 100 lbs.; \$20.00 per ton.
- BAMBOO CANES 6 to 8 feet, \$6.00 per 1000

WM. ELLIOTT & SONS, NEW YORK
 Mention The Florists' Exchange when writing.

DAHLIA PLANTS

Specialty Crown in Outside Frames

It is now a recognized fact that Dahlia growers produce their finest flowers and exhibition blooms from plants propagated from selected stock and grown in frames in the open air. We offer the following new cut flower varieties:

CACTUS DAHLIAS		SHOW AND DECORATIVE DAHLIAS	
	Doz.	Doz.	100
Brunhilde, purple	\$1.50	A. D. Livoni, pink	\$0.50 \$2.00
Florodora, deep cardinal	1.50	Apollo, scarlet . . . . .	.50 6.00
Kreimhilde, pink	1.00	Camellia flora, white . . . . .	.50 6.00
Mrs. H. J. Jones, carmine and white	2.50	Emily, rosy lake . . . . .	.50 6.00
Parity, white cactus	1.50	Queen of Yellows . . . . .	.50 6.00
Volker, yellow	1.50	Red Huesar, cardinal . . . . .	.50 6.00
GIANT-FLOWERED		Grand Duke Alexis, white tinted	
Mrs. Roosevelt, shell-pink	2.00	Nymphæa, shell-pink . . . . .	.50 6.00
Eureka, rose	1.00	NEW SINGLE DAHLIAS	
John Ellitch, crimson . . . . .	.80	Alba Superba, best white	3.50 25.00
C. W. Brnton, yellow . . . . .	.80	The Fairy, delicate pink	2.50 20.00
		St. George, canary yellow	1.50 10.00
		Ami Barrillet, garnet, purple foliage	1.00 8.00

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK
 Branch Store, 404 East 34th Street, New York
 Mention the Florists' Exchange when writing.

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PRIMROSE IMPROVED CHINESE
 Finest grown, large-flowering, fringed, single and double, 15 varieties, mixed, 500 seeds \$1.00; half pkt., 50c. Have the varieties separate also.

CINERARIA Finest large-flowering dwarf, in best mixture, 1000 seeds, 50c.

PANSY GIANT. The finest large-flowering varieties, critically selected, 5,000 seeds, \$1.00; half pkt., 50c.
 500 seeds of "Giant Mme. Perrett" added to every \$1.00 pkt. of Giant Pansy Seed. CASH. Extra count of seeds in all packets.

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 The Home of Primroses
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For the Trade

A full line in Manila, Fibre and Laid papers, white, amber and colored. Printing in large or small quantities, one or more colors, with cultural directions and with or without cuts. Samples and estimates on application.

The Brown Bag Filling Machine Co.
 Bag Dept.
FITCHBURG, MASS.
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ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World
 Introducer and Grower of all the leading Novelties
 Highest Award. International Exhibition, Dusseldorf, 1904. Catalogue free on application.
FRED. ROEMER, Seed Grower
 QUEDLINBURG, GERMANY.

Mention The Florists' Exchange when writing.

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GIGANTEUM MULTIFL.
 Best strains of European specialists. Blood red, white rose, pure white, white with carmine eye, mixed. Above 75c. per 100; \$8.00 per 1000 seeds.
 Daybreak, color, \$2.00 per 100 seeds.
 Papilio, mixed, \$1.00 per 100 seeds.
HENRY PHILIPPS SEED CO., Toledo, Ohio
 Mention the Florists' Exchange when writing.

BURPEE'S SEEDS

PHILADELPHIA
 Blue List of Wholesale Prices mailed only to those who plant for profit.
 Mention The Florists' Exchange when writing.

RAWSON'S

Arlington Tested Seeds for Florists. Catalogue mailed free.
W. W. RAWSON & CO.
 Seedsmen,
 12 Faneuil Hall Square,
 BOSTON, MASS.
 Mention The Florists' Exchange when writing.

NEVER BEFORE OFFERED

Lilium Longiflorum Multiflorum

Original Japan stock, in fine healthy condition, ready for delivery July, 1905

5 x 7 size,	\$25.00 per 1000;	\$3.50 per 100
7 x 9 " "	65.00 " "	8.00 " "
9 x 11 " "	130.00 " "	15.00 " "

Orders will be accepted as long as stock to arrive, which is very limited, is unsold. Terms, Net Cash, 30 days. Write for Special Price on all other Bulbs, Roots, Etc.

F. W. O. SCHMITZ, Prince Bay, N. Y.
 Importer and Exporter

Mention the Florists' Exchange when writing.

LAWN GRASS SEED

In Bulk and Packages
 Dickinsons, Evergreen, and Pine Tree Brands
SPECIAL MIXTURES SEED FOR GOLF GROUNDS
 MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

HAVING BEEN AWARDED THE GRAND PRIZE

For My Exhibition at
GLADIOLI AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.
 Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
 Mention The Florists' Exchange when writing.

NEW CREATIONS IN DAHLIAS

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.

L. K. PEACOCK, Inc., ATCO, N. J.
 Mention The Florists' Exchange when writing.

FIRST EARLY SHIPMENTS

JULY—First Harrisii, Freesias.

AUGUST—10-15—Roman Hyacinths.

AUGUST—25—Paper White Narcissus.

SEPTEMBER—1—Lilium Candidum.

Vaughan's Bulbs

SEPTEMBER—15—Hyacinths, Tulips and other Dutch Bulbs.

OCTOBER—Full Supply of Lilies.

NOVEMBER—15—Spiraea, Lily of the Valley.

DECEMBER—1—New Crop of Tuberoses.

We import by fast steamer one-fourth of our ROMAN HYACINTHS, FREESIAS and PAPER WHITES needed for Thanksgiving and Christmas trade. By doing this we put these kinds of Bulbs in your hands two weeks earlier than if you wait for your entire order from Holland and France.

EASTER, 1906, APRIL 15th.—Order Early. It Helps Us and You

Write or call for SPECIAL IMPORT PRICE LIST—Now Ready

J. C. VAUGHAN, Pres. **VAUGHAN'S SEED STORE** O. CROPP, Sec'y-Treas.
 CHICAGO; 84 and 86 Randolph Street NEW YORK; 14 Barclay Street
 Mention The Florists' Exchange when writing.

50,000 FINE CALLA BULBS READY

The above bulbs are free from disease and are true to measurement.

1 ½ inches diameter	\$4.00 per 100; \$35.00 per 1000
2 inches diameter	5.00 " 45.00 "
2 ½ inches diameter	6.00 " 55.00 "
3 inches diameter	7.50 " 70.00 "

GET YOUR ORDER IN EARLY

Freight prepaid at the above prices. 250 at 1000 rate. CASH.

A. MITTING, 17 TO 23 KENNAN ST., Santa Cruz, Cal.

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Clearance Sale PRIZE GLADIOLI Selected Bulbs

250 Bulbs at 1000 Rate.

High-Grade Bulbs at Unprecedented Prices

	Per 100	1000
JOHNSON & STOKES' SPECIAL MIXTURE.....	\$0.65	\$5.50
Floraeroft Prize Mixture, 1st size, the finest strain on the market.....	1.00	8.50
Floraeroft Prize Mixture, 2d size.....	0.65	6.50
Groff's New Hybrids, splendid bulbe of this famous strain.....	1.25	11.00
White and Light Shades, unsurpassed quality.....	1.25	11.00
Lemoine's Hybrids, mixed.....	1.15	10.00
Bronchleyensis, scarlet.....	1.00	8.00
Pink Shades, mixed.....	1.15	10.00
Striped and Variegated, mixed.....	2.00	18.00

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.
Mention The Florists' Exchange when writing.

OUR CATALOGUE

Of Guernsey-Crown Narcissus will be ready about June 10. Get our prices before ordering elsewhere.

HUBERT & CO.
N. Le Page, Rep. Mt. Vernon, N. Y.
Mention The Florists' Exchange when writing.

Florists' Flower Seeds

NEW CROP NOW READY.

Catalogues free on application.

WEEBER & DON, Seed Merchants and Growers,
114 Chambers Street, NEW YORK

Mention The Florists' Exchange when writing.

Asparagus Plumosus Nanus

1905 Crop, equal to greenhouse-grown, \$1.50 per 1000 seeds.

A. ABERCROMBY, Los Angeles, California
Station D

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Catalog Engravings

and ILLUSTRATIONS

that print EASILY. That's the kind we make—have been since '73.

JAS. M. BRYANT, Horticultural Engraving and Printing
706 Chestnut Street, PHILADELPHIA, PA.

Mention The Florists' Exchange when writing.

FREESIAS

GRAND DUCHESS OXALIS, Bermuda Buttercups, Amaryllis Johnsonii and Belladonna, Chlidanthus, etc.

Now digging; ready to deliver end of June and July. Prices for quantities on application.

Rees & Compere, R. D. No. 1, Long Beach, Cal.
Mention The Florists' Exchange when writing.

Thorburn's Seeds

We are now booking orders for

LILIUM HARRISII
LILIUM LONGIFLORUM
ROMAN HYACINTHS
PAPER WHITE NARCISSUS, &c.

Apply for prices, stating number wanted

CYCAS REVOLUTA, \$8.00 per 100 lbs.
COLD STORAGE VALLEY PIPS, in cases of 3,000, at \$10.00 per 1000.

J. M. THORBURN & CO.
36 Cortlandt St. New York
Mention The Florists' Exchange when writing.

LOOK UP


Our advertisement in Issue of June 3. It will interest you.

H. H. BERGER & CO., 47 Barclay St., New York
Mention The Florists' Exchange when writing.

FREESIA BULBS

California Field Grown. Express prepaid at the following prices: $\frac{1}{2}$ to $\frac{3}{4}$ in. \$1.25 per 1000, $\frac{3}{8}$ to $\frac{1}{2}$ in. \$2.05 per 1000, $\frac{1}{4}$ to $\frac{3}{8}$ in. \$3.35 per 1000. Mammoth Bulbs, \$5.40 per 1000. Rates on orders of over 5000.

H. N. GAGE, Burnett, Cal.
Mention The Florists' Exchange when writing.



WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
12 W. Broadway, NEW YORK

Mention The Florists' Exchange when writing.

WE AIM

to supply only

SUPERIOR STOCK

When making up your catalogue, write us for prices on Summer flowering bulbs.

JOHN LEWIS CHILDS, Floral Park, N. Y.
Mention The Florists' Exchange when writing.



QUALITY SEED BULBS PLANTS
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York.

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FISCHER'S GRAND FREESIA PURITY

The finest in existence. A magnificent glistening white, of great substance, long strong stems (2 ft.), of large et size and very fragrant, very prolific in both flower and bulbs, producing bulbs of immense size when well grown. Price, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. Discount on 5000 lots. Ready now. Cash with order, please.

R. FISCHER Great Neck L. I., N. Y.
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COLORED SEED BAGS

HIGH-GRADE WORK . . . LOW PRICES

We manufacture a full line of colored seed bags, for the trade. Send us a list of your requirements and let us quote you prices.

Catalog and Sample Bags upon request

HERNDON, LESTER & IVEY CO. (Inc.)
RICHMOND, VA.
Mention The Florists' Exchange when writing.

Florists' Bulbs

Best Grade Only

IMPORT ORDERS NOW BOOKED

Write for Prices

W. C. BECKERT
Allegheny, Pa.

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IMPORTANT

We are growing 500,000 Roses of the best leading varieties of Hybrid Perpetuals, Hybrid Teas and Climbers in 2 inch pots. Prices low if orders are given now for next Spring delivery. A large assortment of Shrubs and Evergreens for transplanting. Do not wait. Let us book your order now for next Spring delivery. You will save money.

The Elizabeth Nursery Co.
ELIZABETH, N. J.

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FERN BALL SPECIALS

JUST ARRIVED A splendid lot of heavy extra large Fern Balls, 10x12 size. These are good sellers, and to move them quick we make prices cheap. 50 for \$13.00; \$25.00 per 100.

HENRY F. MICHELL CO. Importers and Growers, 1018 Market St., Philadelphia, Pa.

Mention The Florists' Exchange when writing.

CANNAS Started, strong plants
Italia, P. Marquant, Robusta, etc., \$3 per 100.
Shellroad Greenhouses, Grange P. O., Balto, Md.
Mention The Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION
Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierpont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

SEDALIA, MO.—L. H. Archias, of Archias' Seed Store, started May 31 for Los Angeles, Cal., as delegate to the Knights of Columbus National Council. He will be accompanied by Mrs. Archias and daughter, Edith. They will also visit at Portland and Seattle before returning. Archias' Seed Store reports the most successful season it ever had.

NEWPORT, R. I.—Henry C. Anthony, the wholesale seed grower of Portsmouth, R. I., was a visitor the past week, and reports seeds of all kinds cleaned up remarkably well this year. The Joseph Breck & Sons Corporation, of Boston, have had their Mr. Rich here for a couple of days. While this, of course, is a very dull time for wholesale seedsmen, Mr. Rich reports a very good business indeed. It has been generally understood among the trade here that after June 1 the seed stores should close every night but Saturday at 6.30 o'clock. One of our large stores was not willing to do this, and so we are all keeping open nights for the present. F. W.

THE SEED CROPS ON LONG ISLAND have reached a condition where the outlook can be stated with a certain degree of confidence. Of course, there is no certainty as to the results of any venture in the field of agriculture, until the crop is harvested. Storm is liable to destroy when the crop is ready for the harvest; blight, mildew, and rust are liable at any time to upset all calculations; so all that can be said is to give the indications at the time of writing.

Cabbage Seed Crop.—At the present time it is safe to say that present appearances indicate double the yield per acre that was promised three weeks ago. Climatic conditions have been ideal, and the fields now give promise of more than an average yield. In fact, many fields are as promising as the best in former years of great productivity. It must, however, be understood that the acreage is not more than half what was contracted for last year,

so that the yield, however good, will not be as large as the contractors desired. On the other hand, with the exception of a few varieties but little used, there is no danger of a shortage. With this seed crop the future is a most uncertain quantity. The large crops and high prices for potatoes of the past three years have stimulated the farmers to increase their acreage of these, and to abandon seed growing, which makes it impossible to contract as largely as in former years. There are, however, many of the most successful seed growers that will keep on as in years past, knowing full well the seed industry to be the most profitable as a permanent industry.

Siberian Kale.—This crop is looking well, and there is every promise of sufficient to fill all contracts.

Scotch Kale, on the other hand, is nearly a total failure. The plants started well, but soon began to drop out, which was undoubtedly due to the excessive cold weather of the past Winter.

Spinach is again a very small crop, in fact, no better than last year, when it was nearly a total failure. The very cold and backward season kept the plants back until warm weather set in, which forced the plants into flower before they had sufficient growth to produce a seed crop.

Ruta bagas are looking very well; in fact, there is every promise of a large yield; a shortage is not at all likely.

European Notes.

The somewhat severe crisis through which we have been passing is now practically over, for with a cessation of the deadly northeaster, we may reasonably expect the much-needed fall of rain. The damage done by frost and vermin to our growing crops must be considerable, and has only been mitigated by the dryness of the atmosphere. Our Spring sowings of pole and other beans have been destroyed except in a few very sheltered spots. The price of the few left on hand has nearly doubled during the past ten days, and those who were recently so eager to sell have good reason to regret the success of their efforts. How far other crops are permanently injured shall be reported later.

EUROPEAN SEEDS.

NOTES ON DUTCH BULB RAISERS.—The months March, April, and May until the 26th, were distinguished by cold winds, hail, frost, snow, and rain. Spring, and it seems that no bulbs would grow up to the standard. There is much disease in the plants; tulips have damaged foliage in consequence of frost, so that every grower feared that the crop would be a failure. No it may be said that for many growers here the prospects are not so bright.

DWARF BOX HARDY ROSES

3 to 5 in., \$25.00 per 1000; 2 to 4 inches, \$20.00 per 1000.

Specimen Evergreens In fine assortment. Call and see them.

HIRAM T. JONES, Union County Nurseries, ELIZABETH, N. J.
Mention the Florists' Exchange when writing.

RHODODENDRON MAXIMUM

and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand. See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES North Abington, Mass
Mention the Florists' Exchange when writing.

NOTICE

To whom it may concern: RALPH M. WARD & CO., New York City, having purchased my crop of Bermuda Harrisii Bulbs for the season of 1905, have the sole right to sell them in the American and Canadian markets and to offer them as

PENISTON'S BERMUDA HARRISII

March 31, 1905. CLARENCE PENISTON, Hamilton, Bermuda.
Mention the Florists' Exchange when writing.

For three days we have had real Summer, but the hyacinth plants show how much they have suffered. On many places the leaves are limp; the bulb have no roots. The foliage in many gardens is soft yellow instead of fresh green. In the months of May and June the bulbs must attain their full size, but 80 degrees F. in the shade is too much warmth for them. A few days of such a temperature will cause hyacinths and tulips to perish, and the bulbs will not be up to their size, in that case. They will suddenly change their color and the growth has ended then.

Narcissus and crocus promise a good crop, though here and there the narcissus are infected with "fire."

The growers expect a very quick trade in tulips, with high and advancing prices. The demand for tulips has been extremely large this year, and, on the green sales, there was a very good market for them. Hyacinths, particularly those of selected size, will be scarce and expensive, as they will be in short supply. Smaller sizes, we think, will be sufficient in number to meet demands, but not abundant. Narcissus will be held at the same prices as last year, except double Von Sion selected size and Emperor. Some growers expect also that the price of Golden Spur will be higher than last year.

J. BEUMER.

SILVER RIBBON GRASS

The New Hardy Perennial

The finest ornamental grass to be had, perfectly hardy, can be used indoors and out, grows rapidly and does not turn green or run to seed. Strong field-grown roots 15c. each, by mail postpaid: \$1.25 per doz., \$8.00 per 100 by express, charges not prepaid. Can fill orders at any time. Terms cash with order.

JAMES VICK'S SONS

ROCHESTER, N. Y.

Mention the Florists' Exchange when writing.

F. & F. NURSERIES SPRINGFIELD NEW-JERSEY

Wholesale Growers **TREES AND PLANTS** in full assortment Trade Catalogue Free
Mention the Florists' Exchange when writing.

August Rölker & Sons, 31 BARCLAY STREET, New York

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Delivery.

AMERICAN TREE SEEDS AND PLANTS
Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it.
OTTO KATZENSTEIN & CO.
Tree Seeds and Plants Specialists, ATLANTA, GA

Mention the Florists' Exchange when writing.

BOBBINK & ATKINS
Nurserymen and Florists

VISITORS INVITED.

Ask for Wholesale Catalogue. **RUTHERFORD, N. J.**
Mention the Florists' Exchange when writing.

TREES
Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collection in this country.
Gold Medal—Paris—Pan-American—St. Louis, 1902 prizes New York State Fair, 1904.
Illustrated Descriptive Catalogue FREE on Request.
ELLWANGER & BARRY
Mt. Hope Nurseries, Rochester, N. Y.
Drawer 1044 U Established 65 Years.

Mention the Florists' Exchange when writing.

SWEET POTATO PLANTS

NOW ready, a large stock of stout, healthy plants. **CEDARVILLE**, an improvement of Yellow Nansemond. An abundant bearer of handsome, rich, yellow tubers of medium size and comely shape, \$1.00 per 1000.

A NEW EARLY GOLDEN SWEET POTATO

In this we have the Ideal Sweet potato for early market and home use. The color is a beautiful golden yellow, very sweet and palatable and a remendous yielder of uniform tubers of just the proper shape and size, \$2.25 per 1000.

BIG STEM JERSEY Early, bright yellow and very productive, \$1.50 per 1000.

PIERSON Extremely early and the greatest yielder of any variety in cultivation. The tubers are light yellow or straw colored, of good shape and fair quality; a splendid keeper, \$2.00 per 1000.

VINELAND BUSH Grows in true bush form, yellow, productive, of good shape and fine quality, \$2.25 per 1000.

Red Nansemond, or Red Jersey Per 1000. Pierson, Hayman, Early Red, Spanish, Belmont, Nancy Hall, Vineland Bush and White Bunch, 50c. per 100, postpaid.

H. AUSTIN - Felton, Del.

Mention the Florists' Exchange when writing.

All the leading varieties of **Hybrids and Ramblers** now ready for delivery Price, \$4.00 per 100; \$30.00 per 1000. Send cash with orders under \$10.00.

W. & T. SMITH COMPANY, - Geneva, N. Y.
Mention the Florists' Exchange when writing.

Vegetable Plants:

Caulliflower (Early Snowball), \$2.50 per 1000. Cabbage Plants, best varieties, \$1.50 per 1000. Sweet Potato Plants, \$1.25 per 1000. Tomatoes, Stone, Beauty, \$1.25 per 1000.

J. C. SCHMIDT CO., Bristol, Pa.

Mention the Florists' Exchange when writing.

EVERGREEN

An Immense Stock of both large and small sized **EVERGREEN TREES** in great variety; also **EVERGREEN SHRUBS**. CORRESPONDENCE SOLICITED.

THE WM. H. MOON CO., Morrisville, Pa.

Mention the Florists' Exchange when writing.

Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

ENDTZ, VAN NES & CO. BOSKOOP HOLLAND.

Mention the Florists' Exchange when writing.

CALIFORNIA PRIVET

For Fall Delivery

I will have a full stock of well-grown plants, two years old. Also strong three-year plants, transplanted, stocky and well furnished. Orders can be placed now to an advantage.

CHAS. BLACK, Hightstown, N. J.

Mention the Florists' Exchange when writing.

PEONIES

Wholesale and retail catalogues ready for distribution. Sent free on application. All stock guaranteed true to name. Send your orders in early to be assured of a good collection for Fall planting.

PETERSON NURSERY
505 W. Peterson Ave. CHICAGO, ILL
Mention the Florists' Exchange when writing.

P. OUWERKERK

216 Jane Street

WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiraea Japonica, Lillium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

PRICES MODERATE

Mention the Florists' Exchange when writing.

HYDRANGEAS

For lawns, porches, etc., from 5 in. and 6 in. pots, pink and assorted, \$35.00, \$50.00, \$75.00 and \$100.00 per 100.

French blue variety Azurea, \$12.00 and \$15.00 per dozen.

These plants are timed to bloom in July and August and are admirably suited for planting in large tubs or pots, or fancy receivers.

Araucaria Excelsa, a splendid lot, \$9.00, \$12.00, \$15.00, \$18.00 and \$24.00 per doz.

ANTON SCHULTHEIS

College Point, L. I., N. Y.

Mention the Florists' Exchange when writing.

ASTERS FIELD-GROWN

Comet Giant, mixed; Semple's white, pink, purple and lavender, 40c. per 100; \$3.60 per 1000.

CABBAGE Field grown, ready to plant out: Express, Wakefield and All-Head, 75c. per 1000, to close out. Cash.

BYER FLORAL CO., Shippensburg, Pa.

Mention the Florists' Exchange when writing.

ENGLISH IVY

Fine plants, out of 5 in. pots, 25c. Out of 4 in. pots, 10c.

FORGET-ME-NOT \$4.00 per 100
DAISIES 2.00 "
PANSIES 2.00 "
Please send cash with order.

Chas. Zimmer, West Collingswood, Phila. N. J.

Mention the Florists' Exchange when writing.

Marie Louise Violets

1888 Schuneman's famous violets are well-known as the most fragrant of all violets. 1905

Fine plants for bunching at once, guaranteed the best stock in the market, none better.

Only \$2.00 per 100; \$15.00 per 1000.

Come and take a look at them. Only 17 miles from New York City.

Sample 10c., only for cash. Money returned if not suited.

GEO. T. SCHUNEMAN'S VIOLET RANGE, BALDWIN'S L. I., N. Y.

Mention The Florists' Exchange when writing.

EXTRA FINE PLANTS WRITE FOR PRICES

DRAGENA INDIVISA 4-in., 5-in. and 6-in. pots.

HELIOTROPE 3 1/2-in. pots.

CUPHEA 2 1/2-in. pots.

SWEET ALYSSUM Double, 2 1/2 in. pots.

COLEUS Verschaffeltii, yellow, mixed, 2 1/2-in. pots.

AGERATUM Blue and white, 2 1/2-in. and 3 1/2 in. pots.

PAUL J. BURGEVIN, Port Chester, N. Y.

Mention the Florists' Exchange when writing.

EVERGREENS Large Assortment

Specialties—White Pine, Hemlock and Large Evergreens. Spring list for details.

Andorra Nurseries
Wm. Warner Harper, Prop. CHESTNUT HILL, PA.

Mention the Florists' Exchange when writing.

KOSTER & CO.

Hollandia Nurseries **BOSKOOP, HOLLAND**

Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.

RHODODENDRONS, H. P. ROSES, Etc.

Catalogue free on demand.

Mention the Florists' Exchange when writing.

SPECIAL OFFER For Fall Delivery

ALL STRONG AND HEALTHY

ROSES, dwarf H. P.'s, grafted on seedling briars (canina). Standards, H. P.'s, 3 to 3 1/2 feet stems.

APPLES, maiden, on Crab Stock.

PEACHES, maiden.

PEARS, maiden on Quince.

FRUIT AND ORNAMENTAL TREES AND SHRUBS.

HYDRANGEA, PANICULATA, ETC.

Moderate prices on Application.

AUG. VAN HEDEN NURSERIES

WETTEREN, NEAR OHENT, BELGIUM

Mention the Florists' Exchange when writing.

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

THE AMERICAN POMOLOGICAL SOCIETY will hold its next biennial meeting in Kansas City, August 8-10 next. All the horticultural societies in the Middle West are co-operating with the national organization to make the meeting a pronounced success.

WEST CHESTER, PA.—The old established business of Hoopes, Brother & Thomas will be continued by Messrs. Abner Hoopes, Wilmer W. Hoopes and Charles E. Cattell, under the same style as heretofore.

LAKE CITY, MINN.—The Jewell Bulletin, issued by the Jewell Nursery Company, in its issue of May 15, says: "One year ago was the largest shipment we ever made up to that date. Our records show that two hundred and sixty cars loaded with nursery stock left this depot. The present year shows that over three hundred cars were shipped loaded with nursery stock, besides about twenty cars or more filled with express packages. This totals an aggregate of nearly one and one-half million pounds of freight and express."

many varieties of this chestnut. In fact, many of those already in cultivation are the result of selection from seedlings, great varieties having been observed in collections. A nurseryman who procured some 300 seedlings of small size, and who set them out in nursery rows, says that fully a fourth of them fruited last year when not over two feet high. The thriftiest growers do not make large trees; on the contrary, quite small ones, when we have in mind our native and the Spanish chestnuts.

Aucuba-Leaved Ash.

Mention was made of the flowering ash, *Fraxinus ornus*, in a recent issue of *The Florists' Exchange*, and well worthy of commendation the tree is! There is another, quite as worthy, but in an entirely different way—the aucuba-leaved ash, *Fraxinus aucubifolia*. To those acquainted with the golden-leaved aucuba the resemblance of the foliage of this ash to it will strike them at once. Soon after the leaves are fairly unfolded the golden spotted appearance becomes very pronounced. This they hold through May and June, after which they lose some of the golden color and, later in Summer, there is not much of it visible. It, therefore, is to be considered as an ornamental foliaged tree for early Summer. As with all other ash trees it is readily increased by both budding or grafting. Whichever plan is adopted, the operation should be performed near the ground. With this and all handsome foliaged plants, trees and shrubs, we wish to see the foliage close to us, so that low branched ones are what we should have.

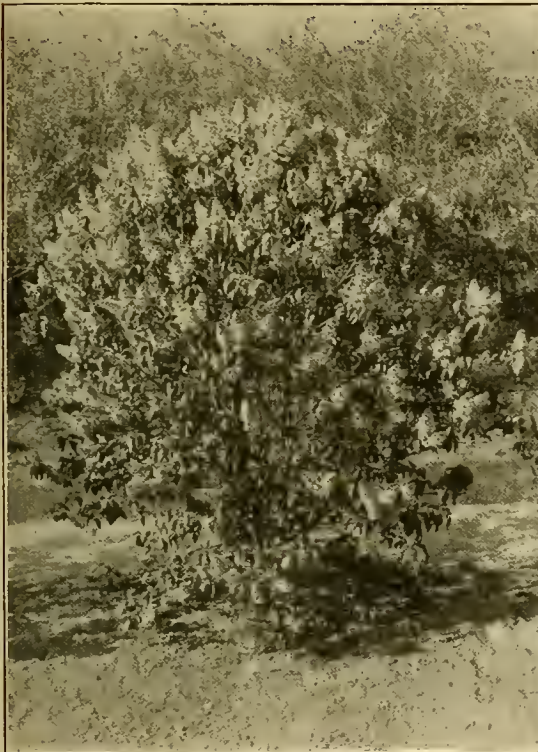
species are a long way apart, bees are so fond of visiting the flowers that in all probability mixtures would result. In view of all this, to be safe to get the pure species of any one of the wistarias, layer plants are the best to rely on.

Chinese Cork Tree.

Trees having corky bark are always interesting, and nurserymen find a steady call for all the kinds they have of this character. Some years ago a new one, as thought, was added to the list, under the name of the Chinese cork tree, *Phellodendron amurense*, but the tree sent out for it, which is presumed to be true to name, is not at all corky. In later years, the Arnold Arboretum sent out another *phellodendron*, a variety which had come from Dr. Regel, and those who have secured it find it to be of a decidedly corky character—a real cork tree, in fact, and an interesting one to look on. The older one in cultivation has borne seeds for years, and seedlings of it are plentiful. What is wanting now is for the real cork barked one to commence bearing, that a supply of its seedlings may be available, for it promises certainly to be a very desirable sort, and cork-barked trees are always in demand.

Yellow and Black Locust.

A correspondent writes me that I am incorrect in saying the yellow and the black locust are the same thing. Where he lives, in Kentucky, he says there is the true yellow locust, and it differs from the black



ALINE MEOQUERY



FRAU BERTHA DAMMAN



TRIOMPHE D'ORLEANS

LILACS IN ARNOLD ARBORETUM, BOSTON, MASS.

Picea Pungens.

This is the season of the year when the beauty of the Colorado blue spruce, *Picea pungens*, is at its height. It is when the young growth is about half formed that the blue color is so pronounced, and this is the time to call customers' attention to it. There is no other evergreen equal to it in blueness of color, provided one gets the true blue colored form. To simply ask for a *Picea pungens* does not insure a blue one, as many of them are as green as a Norway spruce. *P. Engelmanni* is of good blue color, but not as deep or as silvery as that of *P. pungens*. There appears to be all grades of color in this spruce in its wild state, from green to the brightest silvery blue.

Fruiting of Japanese Chestnut.

There is such a difference in the time required for fruiting in the Japanese chestnut that it is surprising in some cases. As a rule, the trees grow on for several years, becoming six to ten feet high before any flowers or fruit appear, but, in some cases, little seedlings of but two feet will bear, just as the chinquapin chestnut does. And this early bearing is something not looked for in seedlings, as a seedling has vigor which carries along its growth without fruiting to a longer time than a grafted or an otherwise increased one takes. There is no doubt it would seem there are

Planters may safely be advised to plant several of this and similar trees close together, to form large groups of ornamental foliage, when grounds are of dimensions to permit of it.

Variations in Wistarias.

Accepting an invitation from a friend to look at his several vines of *Wistaria sinensis*, which he said were not of the usual color, but much lighter, I visited his grounds and found it to be as he represented, the flowers being, some of them, almost white. While there is no doubt that soil, shade and other things will cause the color of flowers to change, there are other things helping toward it—hybridization, for instance, when there have been variations in the type, as the now well-known white variety and the double form attest. Then the Japanese species, *W. multijuga*, has to be considered, and remembering all these species and varieties, and that they are often grown in proximity to each other, there is no trouble in understanding how varying colors may be found in seedlings. The friend referred to did not know if his plants were layer raised or seedlings; he had obtained them from a near-by nursery.

A nurseryman having plants of the several sorts growing near each other could not depend on having seedlings true to color. And even when the different

one as much as the white oak does from the black oak. I have written him that I do not question that there may be variations in the *Robinia pseudo-acacia*, the locust in question, but that to a nurseryman, who is interested in supplying what a customer wants, the matter to understand, and which all nurserymen do understand, is that the names black locust and yellow locust are synonyms, and that what is wanted is the *Robinia pseudo-acacia*. Just now railroad companies are planting this locust extensively for the use of the timber for ties. This has awakened the interest of many persons in it, and inquiries for both seeds and seedlings are numerous, and the number of those who ask about it under the name of yellow locust is about equal to that of those who call it black. In Pennsylvania it is almost universally called yellow locust—an appropriate name, considering its yellowish white flowers.

There is no question of the hard-wooded character of this tree nor of its durability, but in some parts of this State, Pennsylvania, where it grows wild, it suffers somewhat from the attack of a borer.

It is good work on the part of companies and of individuals to set out plantations of useful trees. Some of the *Catalpa speciosa* plantations set out some years ago should soon be coming into profit. The demand for timber trees of all kinds is bound to increase, and very largely too, and in this respect, and in a general way, also, the prospects of the nurserymen look very bright.

JOSEPH MEEHAN.

Notes on the Lilacs.

There is perhaps no class of hardy shrubs that command more attention than the lilacs. Among the earlier flowering shrubs they are looked upon as the chief attraction. There are many fine hybrid varieties, but in many gardens we see only fair success with their cultivation. In many instances little attention has been paid to the preparation of the soil. Lilacs, like most shrubs, delight in a rich, deep loam, and, before planting, care should be taken that the ground has been thoroughly trenched and well enriched. The chief cause of failures, however, is the using of grafted plants. To insure a quick growth and speedy returns, as it were, grafting is resorted to as the chief means of propagation; and while grafted plants may grow flourishingly for a few years, they will soon begin to show signs of decay, and eventually die. To insure good results it will be best to start aright, and if it is not possible to secure plants on their own roots, grow them. Cuttings may be rooted in a gentle bottom heat during the Summer, and it is surprising how quickly an own-root plant will grow when once it gets a start.

In the Arnold Arboretum, where for years the lilacs have been one of the chief attractions during the season, no grafted plants are now to be found. When new varieties arrive, they are placed in nursery rows till Mr. Dawson has had an opportunity to grow own-root plants, which finally receive a location in the order. This year many people believe the lilacs were finer than they have ever been before, but it is doubt-

Mme. Briott, E. Lemoine, Gehemrath Singleman, Mme. Kreuter, Professor C. S. Sargent, La Ville de Troyes, Lemoine, President Grevy, La Tour de Avergne, President Massart, Tournafort, Condorcet, Dr. Lindley, Wm. Robinson, Louis Henry, Marechal de Bossone-pierre, etc.

Among the different species are some of the best and most interesting of the lilacs. *Syringa pubescens* is one of the best, with a decided upright habit of growth and free small light-colored flowers. *Josikee* is well known as a valuable late variety. *Villosa* is a grand lilac, coming into bloom just as most of the hybrids have passed. *Chinensis*, both light and dark colored, are good; and *persica* is so well known that it needs only to be called attention to. *Rothomagensis* is a hybrid known as the Rouen lilac, and is perhaps the most graceful of all.

Later in the season come the Chinese lilac, *Pekinesis*, valuable as a late flowering plant, and *Syringa japonica*, which is a small growing tree, and is one of the most ornamental of Japanese introductions.

JOHN W. DUNCAN.

TALES OF A TRAVELER.

El Paso, Texas.

There are but few towns in the United States situated so far from other towns of importance as El Paso, Texas. There are also few towns which have the conditions of climate as this growing border town. Directly across the Rio Grande is Juarez, Mexico, and El Paso is the gateway to a large portion of our neighboring republic. Arizona and New Mexico are close neighbors, and there is practically no city of importance for hundreds of miles. Long distances are a feature of the country here, and the florist business in a town of this character presents an interesting problem. The town is large enough to support a good florist business, as it numbers over 25,000 people, and is a center for all the neighboring towns for hundreds of miles, but

plant life of these conditions. The altitude of El Paso is about 3,600 feet above sea level, and by the testimony of those who have experimented with plants at this altitude, good growing is an impossibility, although at a higher altitude, or a lower one, they can be grown with a fair amount of success. Why this should be true I do not know, but that is what they tell me.

In 1898 an uncle of Mr. Kezer's, W. R. Goddard, came from Maine to El Paso, and they constructed two small greenhouses and undertook the growing of carnations and bedding stock. Two years they tried it, and after seeing the crops blow away after the dry wind had done its work, they gave it up, and Mr. Kezer has since confined his attentions to his store. California supplies a great deal of the stock, but Denver and even Chicago have helped supply flowers for the trade in this remote town. Good railroad facilities help matters, but 800 miles is the nearest point from which stock can be obtained. A big funeral would require that the relatives give notice of approaching death in order to enable the florist to obtain the flowers. Perhaps this is exaggerating matters a trifle, but it merely tends to show the distance of the El Paso florists from a base of supply.

The city of El Paso is growing, and being the center of so great a stretch of country, it must continue to grow. What the future will do for the commercial production of cut flowers here remains to be seen. Mr. Kezer would recommend a refrigerating plant for the Summer months, which would permit of the ventilators being kept closed and the hot winds being excluded.

W. R. PIERSON.



PRINCESS ALEXANDRA



CAROLI



GIGANTEA

LILACS IN ARNOLD ARBORETUM, BOSTON, MASS.

ful if the individual flowers were so large as last year on account of the exceptionally dry Spring. Be that as it may, it is safe to say they were never more floriferous, and were well worthy of a visit by all interested in these plants.

Among the newer hybrid varieties worthy of note *Aline Moequery* is a fine, compact grower, with purplish-red single flowers, and is one of the best. *Princess Alexandra* is not a recent introduction, but it is one of the finest white varieties. *Gigantea* is an old variety, but still holds its place favorably among all others. *Frau Bertha Damman* is a good white sort, with large panicles of flowers, and may be considered one of the best. *Caroli* is a very free bloomer, with purplish red blossoms, and is an excellent variety. *Triomphe D'Orleans* has a fine free panicle of bloom, but it is not of such a close habit of growth as some varieties; on this account it is all the more valuable. *Marie Legraye* is fairly well known as one of the best double white sorts, which, although a good grower, is not so floriferous as some others. *Alba major* is a large-flowered variety of the common white. *Azurea plena* is a good double variety. *Doyen Ketsleer* is a very large flowering sort, and a free bloomer, of a pleasing lavender color. *Souvenir de L. Spath* is one of the best, with medium dark purplish-red flowers. *Philemon* is undoubtedly the best dark-colored variety; it blooms early and keeps its color well, lasting better than many of them.

Among later introduced varieties worthy of note are *Colbert*, with large double purple flowers; *Dr. Masters*, with lilac flowers; *Rabelais*, Mme. *Casimir Perier*, and *Noisettiana*, with white flowers. Other good varieties include *President Carnot*, *Echenholm*,

not a single grower of cut flowers for commercial purposes can be found in the city. It can boast, however, of one dealer in cut flowers. On Myrtle street, H. A. Kezer has a store devoted entirely to cut flowers and florist designs, and this is the only one. Several other places in El Paso sell a few flowers occasionally, but this store is a flower store pure and simple.

I had a very interesting talk with Mr. Kezer on the situation in El Paso, and from him learned many interesting points in regard to commercial floriculture in Western Texas. He told me of his start as a florist in this section and of the work which has been carried on here in the cut flower line.

Some years ago Mr. Kezer came to Western Texas with a bunch of cattle, and things were promising for him in the cattle business. A neighbor was experimenting with nursery work, and one day approached Mr. Kezer and asked for \$10. "I don't want to borrow it," he said, "but I want it." He got the money and then said: "I'm going back into God's country again, and I guess you can get your \$10 back, for I make you a present of my nursery." He left for the land of more water, and Mr. Kezer took the nursery. A few trees sold to the government post at Fort Bliss gave back the \$10 and a start to Mr. Kezer in the business of growing plants.

The United States Government has kept a record of the evaporation in this climate, and the average for the past seven years has been 84.2 inches, and the rainfall has barely exceeded 10 inches. The hot, dry wind which blows for months will take from the plant every drop of moisture, and the barren deserts about El Paso are a tribute to the discouraging effects on

Acetylene Light as an Agent for Forcing Plants.

During the past Winter experiments have been conducted by M. J. Iorns, a graduate student in the Department of Horticulture at the forcing houses of Cornell University, having for their purpose a comparison of the influence of acetylene and electric light on plant growth under different temperatures. In a recent number of the *Acetylene Journal* a condensed statement of the gross results obtained are presented. It was found that acetylene light, approximating closely the quality of the sun's spectrum, exerted an energetic influence on plant growth. Plants grown under acetylene light vegetated much more rapidly than others not under its influence, and those grown for cut flowers reached the blooming stage considerably in advance of their competitors grown under ordinary sunlight only. Easter lilies grew twice as high and bloomed ten days to two weeks in advance of those outside of the acetylene lighted area. The growth of radish and lettuce was greatly hastened, and the yield in a given time much increased. The branches of flowering shrubs responded in a marked degree to the influence of the light. Those under acetylene light bloomed several days in advance of those in the same temperature and influenced by daylight only. It was also proved that the plants under the influence of acetylene light only would form chlorophyll, as if grown in sunlight.

Whether there is a commercial future for acetylene in the forcing of plants is a problem that awaits solution in the light of more comprehensive investigation.—The National Nurseryman.

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Latania Burbanica, 3 in. pots, \$5.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; large plants from \$2.50 up. Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each. Areca Lutescens, 4 in., \$20.00; 6 in., \$50.00 per 100; 8 in., \$1.00 each. Larger plants, from \$1.50 up.

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A nice lot of made-up KENTIA PALMS in 8 in. and 9 in. pots at \$3.00 to \$5.00 each. Splendid plants for decoration.

Dracena Indivisa, 3, 4 and 6 in., \$5.00, \$10.00 and \$25.00 per 100.

Asparagus Plumosus, 3 in., \$5.00 per 100.

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Geraniums, S. A. Nutt, Castellans, John Doyle, Perkins, Mme. Sallerol, Single and Double Gen. Grant La Favorite, 2 in. pots, \$2.50 per 100; 3 in. pots, \$5.00 per 100.

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Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia, Coleus, red and yellow; Ageratum, blue; Alternanthera, red and yellow; Cigar Plant, 2 in. pots, \$2.00 per 100.

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SUBSCRIBER, Babylon, N. Y.—We cannot answer anonymous communications. If you will kindly send your name and address—not necessarily for publication, but as an evidence of good faith—your letter will receive immediate attention.

Lawn Infested With Ants.

(180) My lawn is more or less infested with ants, and the grass is thin, notwithstanding I have sown grass seed liberally upon it. Kindly inform me through the columns of your valuable paper respecting the best plan of getting rid of the ants and also the best method of improving the lawn? What commercial fertilizers would you recommend for immediate and what for more lasting effects? Will the remedy for ants in the lawn be suitable to expel them from a tulip bed? W. L. T. Wisconsin.

—To destroy ants in the lawn or tulip beds, make a mixture consisting of one-third Fowler's solution arsenic and two-thirds common sugar syrup. Scatter a few drops about and near the ants' runways. This is said to be a sure remedy and without danger. To help the grass at this time, there is nothing better than a light dressing of pulverized sheep manure. This is good also to use in larger quantity during Autumn or early Spring for permanent enriching of the soil.

Azaleas.

(181) What treatment does azaleas require after they are through blossoming? Do they want trimming and re-potting, and when? W. E. Massachusetts.

—Azaleas that are to be kept over another year should receive some attention as soon as the flowers begin to fade. If the plants were imported last Fall, they are probably in very small pots, according to their size, and should at once be repotted, giving them but a small shift, however. If the plants are unshapely, they should be cut back into shape; otherwise, no trimming is necessary. All of which needs doing right after flowering.

Taking Chrysanthemum Buds.

(182) What is meant by taking the August buds and the first or second crown buds of chrysanthemums? Massachusetts. W. E.

—The meaning of taking the August bud of chrysanthemums is to allow the bud that comes in August to develop, and to take away all the other buds that appear either before or after that time. A crown bud is always surrounded by young growths, while a terminal bud is always surrounded by other flower buds. If the first crown bud be removed, the surrounding growths will push forward and eventually another crown bud will be formed which will naturally be a second crown bud.

Sweet Peas, Mignonette, Primulas.

(183) Will sweet pea Christmas bloom for Christmas if seed is sown the middle of August?

When will mignonette bloom if seed is sown about July 15?

Will Primula obconica bloom in four months after the seed is up; that is, after the plants appear?

Will the Buttercup primula bloom at the same time as P. obconica? A. B. C.

Sweet peas sown in the middle of August should be flowering nicely at Christmas time.

Mignonette sown in the middle of July would be flowering the latter part of September, if allowed to do so. For indoor culture, where strong spikes are needed, it must be pinched back, so as to make heavy plants to furnish bloom from November on through the Winter. Primula obconica requires eight or nine months of time before it flowers from the time the seed ger-

minates. The Buttercup primula we have never grown, but should treat it the same as P. sinensis and P. obconica, and they will all flower at the same time.

English Ivy

4 in. 2 plants in a pot, \$7.00; 2 1/2 in., \$2.50; English Ivy Variegated, 2 in., \$2.00. Vinca Var. Major, 2 in., \$1.75. Rooted cuttings, 75c. German Ivy, 2 in., \$2.00. Glechoma, 2 in., \$2.00. Sweet William, 2 1/2 in., \$2.00. Coleus, Golden Bedder and Verschaffeltii, Verbena, 2 in., \$2.00 per 100. SEEDLINGS (Gailardia, g. d., mixed sweet William, double mixed; Cosmos, tall; mixed; Hollyhock, mammoth; extra choice mixed; Pansy, extra choice mixed; Aster, Imp. Victoria, blue; Aster, Imp. Victoria, White, 25c. per 100. Cash on C. O. D.

J. H. DANN & SON, Westfield, N. Y. Mention the Florists' Exchange when writing.

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42 HOUSES 100,000 PLANTS

Sprays or Strings in any quantity

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Largest Importers, Exporters, Growers and Hybridizers in the world.

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Palms, Dracaenas Geraniums, Coleus

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Arrived in superb condition, direct from the woods, the following Orchids: Cattleya liliata, Cattleya Dowiana, Cattleya Warneri, Lelia Baya, Miltonia Candida, Dendrobium Chrysothoxum and Burlingtonia fragrans. Write for special list, also for Catalogue of established Orchids.

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Araucaria Excelsa

From \$1.25 to \$2.00 each.

Kentia Belmoreana, from 50c. to \$5.00 each. Bedding Plants. A fine assortment. Write for prices.

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One year, bench-grown plants, \$5.00 per 100.

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FERNS OUR SPECIALTY

Assorted Ferns for Jardiniers. We have a fine lot of these Ferns in all the best varieties ready for immediate use from 2 1/2 in. pots at \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FERN SEEDLINGS

We are booking orders now for June delivery at \$1.00 per 100; \$8.50 per 1000.

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Decoration Day is now over.

BE WIDE AWAKE

Fill your empty houses with something that will yield you 200 per cent. profit on your investment.

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ARAUCARIA EXCELSA

will do it.



The last shipment for the summer, per steamer Oxonia, arrived in Philadelphia, May 30, from Belgium. Grow them expressly for me, under contract, by an Araucaria specialist. 5000 of the choicest plants, better and shapelier than ever before, are now growing in my greenhouses. I herewith quote you special prices on them. Just look.

10 to 12 ins. high, 2-yr. old, 3 tiers.....\$0.50
12 to 14 ins. high, 3 to 4 tiers..... .60
14 to 16 ins. high, 3-yr., 3 to 4 tiers..... .75
18 to 20 ins., 3-yr., 4 to 5 tiers..... 1.00

Araucaria Compacta Rubusta, unusually large, very beautiful, from \$1.25 to \$1.50 each. Glauca, 75c. to \$1.00 each.

Kentia Forsteriana, 30 to 36 in. high, 4-yr. old, \$1.00; 4-yr. old, 25 to 30 in. high, 75c. Belmoreana, 4-yr. old, 25 to 30 in. high, \$1.00 each. Above are the sizes entered in this Philadelphia Customs House.

Ficus Elastica, imported, 4-in. pots, 25c.; ready June 1st.

BEDDING PLANTS

Geraniums, 4 in. white and mixed varieties, \$7.00 per 100.
Canna, best sorts, 4-in. pots, \$7.00 per 100.
Scarlet Sage, Clara Bedman, and Begonia
Vernon, red and pink, 4 in., \$7.00 per 100.
Heliotrope, blue, 4 in., \$8.00 per 100.

All goods must travel at purchaser's risk. Cash with order, please.

GODFREY ASCHMANN, 1012 ONTARIO STREET, PHILADELPHIA, PA.

WHOLESALE GROWER AND IMPORTER OF POT PLANTS

Mention The Florists' Exchange when writing.

DON'T FORGET THAT I AM THE MOON-VINE GROWER OF THE LAND.

A. W. Smith's Hybrid Moon-Vine, Ipomoea Noctiflora, is the one I grow exclusively. It is the only true Moon-Vine in America. Mr. Smith has a world-wide reputation for growing the best Moon-Vine seed. Please bear in mind that this is no Morning Glory, like some sell for Moon-Vines, but the pure white, waxy Moon-Flower, as large as saucers, 2 1/2 in., \$5.00 per 100; 3 in., \$7.00 per 100; 4 in., \$10.00 per 100. Nicely staked up.

Cobaea Scandens, 4 in., very large, \$7.00 per 100

Coleus, Verschaffeltii, Golden Bedder, Queen Victoria, \$2.50 per 100.

Verbanas, \$1.50 per 100.

Petunias, variegated, \$2.50 per 100; California Giant, 3-in. pots, \$4.00 per 100.

Ageratum, blue, 3 in., \$3.00 per 100.

Scarlet Sage, Clara Bedman, 3 in., \$4.00 per 100.

SCOTTII



Makes three times as many fronds as any other Nephrolepis



THE only new **NEPHROLEPIS** that has really become popular as a commercial Fern, since the introduction of the Boston. Large and small growers everywhere are planting it in preference to any other Nephrolepis. A year's trial has demonstrated that it is the hardiest, most graceful and symmetrical Nephrolepis known. Unexcelled as a house plant; first choice of the retail florist and also of his customers. The New York and Philadelphia retail store men buy no other fern when Scottii is available. Has fully justified the high opinion formed of it by the judges who awarded it the following long list of prizes:

- Philadelphia, Pa. **SILVER MEDAL**
- Newport, R. I. **SILVER MEDAL**
- Boston **SILVER MEDAL**
- New York Florists' Club **SILVER MEDAL**
- S. A. F. St. Louis **SILVER MEDAL**
- American Institute, N. Y. **SILVER MEDAL**
- New Orleans **GOLD MEDAL**
- St. Louis **SHAW GOLD MEDAL**
- World's Fair **GOLD MEDAL**

Highest Award at Chicago, Ottawa and Toronto
First Class Certificates and Testimonials from all over the country too numerous to mention

The Committee of Awards at the St. Louis World's Fair said of **Nephrolepis Scottii**: "A sturdy, Dwarf and compact form of **Nephrolepis**, very symmetrical and handsome, either in small plants or quite large ones. A great acquisition, with excellent qualities as a house plant. Worthy of Gold Medal."

Read Carefully the Best Report Ever Given by the New York Florists' Club for a New Plant:

The committee of award of the club visited the establishment of John Scott, of Flatbush, N. Y., on October 26, for the purpose of inspecting the stock of his new fern, **NEPHROLEPIS SCOTTII**. Seven members of the committee attended, also the president and vice-president of the club. The initial exhibit of this fern was made at the rooms of the club at the November meeting, 1903. The committee which examined it at that time was so favorably impressed by it that they unhesitatingly awarded it a certificate of merit, and did not ask to see it growing; a request to examine the stock was only recently sent to the club by the exhibitor. The committee made a thorough examination of the stock both in pots and on the bench, and character. It was growing in all sizes from plants in 4-inch pots up to specimen plants in tubs, and it was absolutely uniform, and were highly pleased at its condition form in all grades, the characteristics of the large specimen plants being evident in the smallest specimens on the place. The most careful scrutiny failed to discover any tendency whatsoever toward reversion, and it seems as if the character of the plant is absolutely and indelibly fixed. It is in essence a condensed form of the Boston fern, with valuable characteristics added, which are not evident in the parent. Your committee took an average plant in an 8-inch pot and found by actual count that there were 200 fronds in it, not counting the undeveloped and small ones which were in the center of the plant. The fronds of the plant in question averaged about 20 inches in length and three inches in width at the widest point; the pinnae are very closely set, so that they overlap, making a more finished frond than the parent. The plant in question had a spread of three feet. Plants in 4-inch pots showed a spread of 18 inches and a height of 10 to 12 inches. The committee was unanimously of the opinion that it is a most valuable introduction, and that it will become a plant for the florists to grow universally. It has a crispness and hardness about it which is superior to the parent, and which is one of its very valuable characteristics. It propagates very freely, and because of the fact that its character is established in the smallest size, it should find ready sale in all grades. After a thorough examination, your committee unanimously agreed that it was worthy of the highest award by the club and therefore voted that it be awarded the silver medal of the club, and herewith recommend same for your approval.

(Signed) PATRICK O'MARA, JOHN BIRNIE, ALFRED H. LANGHAHR, WM. H. SIEDRECHT, CHAS. LENKER, JOHN DOWSETT.

Scottii has received the highest awards whenever exhibited and for the past year has proven itself to be a **hardier house plant** than the Boston. **There is no comparison between this fern and any other variety for commercial use.**

Consult any grower, or retailer, who has bought Scottii, and they will tell you that it is as far ahead of the Boston as the Boston is ahead of all other introductions.

I sell plants, not apologies for plants. When you order of me, you can rest satisfied that YOUR ORDER WILL BE FILLED.

PRICES OF NEPHROLEPIS SCOTTII: 2 1/4 inch, \$2.00 per dozen; \$15.00 per 100; \$125.00 per 1000. 25 at 100 rate; 250 at 1000 rate.

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BROOKLYN, N. Y.

BRANCH: E. 45th St. and Rutland Rd., Flatbush

Telephone, 1207 Williamsburg

Mention the Florists' Exchange when writing.

FOUNDED IN 1888



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Seedsmen and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday.

Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 751.

News of the Week in Brief.

More of the Buffalo department stores are establishing floral sections.

The West is still being visited by hail storms, and Secretary Esler, of the F. H. A., is working overtime.

Michael Lynch, a well-known California grower, died suddenly, May 27, of paralysis.

The exhibition of the American Peony Society takes place in Chicago next week, June 16 and 17.

Several of the craft have gone to Europe this week, among them Charles Thorley and John Birnie.

Bells perennis proved the best selling plant in Newport, R. I., with the street peddlers this year, at 5c. a plant.

Read what Secretary Stewart has to say about the Washington Convention of the S. A. F. O. H. on the opposite page.

William Joyce, an old-time gardener and successful exhibitor, of Philadelphia, was knocked down by an automobile and killed, on June 3. He was 72 years of age.

The local papers of Kansas City announce a prize of \$400 for the best 100 American Beauty roses, at the forthcoming Fall Show there. Other enticing prizes are to be offered.

The Philadelphia Florists' Club will entertain the S. A. F. O. H. delegates passing through that city en route to Washington. Good viands, a good time, and John Westcott's famous punch will be on the tapis.

The American Carnation Society's preliminary program for the Boston meeting, to be held January 24 and 25, 1906, will be issued early in July, and will contain some special features of interest to carnationists.

There is quite a contrast between the market accommodations afforded for plant and cut flower growers in London and those available to the New York plantmen. Our supplement this week shows it.

Ladies' Night and a grand exhibition of peonies at the New York Florists' Club meeting on Monday evening, June 12, are sure to bring out a large attendance. Other attractive features are on the program. The club's outing occurs Wednesday, June 28, at Glenwood, L. I. Tickets are on sale, and a most enjoyable affair is ensured.

The colored supplement to the London Garden of May 27, 1905, shows two American varieties of carnations, Enchantress and Mrs. Thomas W. Lawson; also an English sort named William Robertson. The illustrations, so far as color is concerned, are hardly "true to nature," but they demonstrate the interest taken by our English brethren in the products of our carnationists. An article, by A. Hemsley, on "Carnations in Pots" and for winter flowering accompanies the plate.

London and New York Plant Markets—A Contrast.

In our issue of March 25 last our English correspondent, A. Hemsley, gave a very full and interesting account of the workings of Covent Garden Market, London from which our readers will have learned of the great advantage, in the way of a structure suitable for marketing plants and flowers, the English growers possess over our plantmen in New York and vicinity. Mr. Hemsley supplements his previous remarks with the following:

After some difficulties I have secured some photos which I think will give your readers some idea of the interior of our flower market. Of course, each picture represents only a small portion of the building. The photos were taken before some of the stands were filled. It was through the courtesy of Mr. Asbee, the superintendent, that I was able to get them. I am also indebted to Mr. Fox, the assistant superintendent, and others of the staff.

We are now just in the busiest season, and it is surprising the quantities of stock that are dealt with. Many of the growers find it impossible to get all they want in the market, and have extra van loads outside. Much of this is transferred to the buyers without going on the stands, and some is taken as room is made.

In my previous notes I gave some idea of the working of the market, and I cannot add much more. The best proof that the market is much appreciated is the fact that it has been found necessary to make considerable additions to the accommodation from time to time. It is not long since the large hall built for the imported flowers was completed; now they are further extending the ordinary market hall. Already seven large buildings have been demolished to provide the space, and when the new addition is completed it will provide a large number of extra stands.

The great advantage of bringing all produce to one center is that buyers, who frequently have to procure a variety of things at short notice, could not, with all the telephone and other means of communication that we have, get them together so easily as is now done by going to market. It also affords all growers the very best means of bringing their produce under the eyes of the actual buyers. And where growers at a distance do not find it to pay to travel up themselves, there are the commission men to whom they can send. Also buyers at a distance can rely on getting anything they want at the shortest possible notice. Much produce is now delivered direct to the buyers from the growers, yet all find it necessary and an advantage to attend the market regularly.

In the pictorial supplement accompanying this issue, we reproduce six views of Covent Garden Market, and three views of our own city's miserable apology for a similar mart. We also give in another column a very complete history of New York's various plant market places, and of the effort made, so far, unfortunately, futile, to secure from the municipal authorities a structure adequate for the needs of the plant and flower industry in the metropolis of the United States.

In a previous issue, we spoke of the apparent hopelessness of any attempt to obtain such a building from the city. We have urged, and still urge, that the erection of a plant and flower market in New York be undertaken by private enterprise. That such an investment, with the market conducted on proper lines, would prove profitable there is not the shadow of a doubt. Plant and cut flower growers owe it to themselves to do all in their power to enlist private capital in the scheme. Without it, the present unfortunate conditions will persist—a deterrent to the full development of the business itself, a barrier to many ameliorating influences the city could otherwise enjoy.

When we contrast the provisions made in Covent Garden with those available in New York in this particular respect—a contrast that our illustrations make clearer than any word-painting possibly can—we are staggered by New York's antiquatedness; its lack of the progressive spirit and want of desire to keep abreast of the times. The flower markets of the capitals of the old world are the pride of their denizens, the joy and admiration of the stranger within their gates. There is no country where better flowers and plants are grown than those produced by the American florists. There is no people possessing a greater love of these products, or who spend more money in the enjoyment of them, than the citizens of New York, yet, as regards market accommodations for the disposal of flowers and plants, we must take a back seat to even the smallest cities in the Mexican republic.

That such a deplorable state of affairs exists, is, we believe, due to the fact that those who are in a position to provide a remedy therefor, are ignorant of the magnitude which the commercial florist industry in our locality has assumed. The total yearly wholesale value of cut flowers disposed of in the now segregated marts of New York approximates \$3,000,000, while the sales of plants, through various sources, at wholesale, will average, in a year, \$1,500,000 more.

We are convinced that, the matter properly presented, it would be possible to interest private capital and enterprise in a flower and plant market building scheme. Those most vitally concerned should have no hesitancy in making the endeavor along this line. It is a business proposition, pure and simple, and—there's money in it.

The American Peony Society.

On June 16 and 17, 1905, will occur the second annual exhibition of The American Peony Society, in the Banquet Hall, Auditorium Hotel, Chicago, Ill., and the indications are for a magnificent and comprehensive display of this now popular flower. The first show of the Society was held in the Museum Building of the New York Botanical Garden, Bronx Park, last year, but owing to untoward conditions it was hardly representative of the peony industry in the East. It is expected that the Western exhibition will thoroughly demonstrate the well-known enterprise of the growers in that locality, and, as well, the extent to which the cultivation of peonies has reached there, where the growers of this plant are, perhaps, more numerous than in the Eastern States.

The Peony Society does well, we think, to alternate the localities in which its exhibitions are held. This indicates a desire on its part to spread enthusiasm, to distribute whatever benefits may accrue from such shows, and the men in charge of its affairs are to be complimented on the broad view they take in thus conducting the Society's business.

In a recent issue of a Boston contemporary it is observed that the secretary of the so-called S. A. F. "Peony Association" inclines to give, as we see it, undue praise to that peculiar body for the increase in peony business that, it is alleged, has resulted from its work. "The other organization has helped, of course," says the sanguine secretary. By this characteristic statement we are again forcibly reminded of the Aesopian fable of the fly on the chariot wheel, and its exclamation, "What a dust I do raise." If we turn to the printed report of the S. A. F. peony committee, we find that its work has been all but abortive; it is not in favor with the peony growers who are members of the S. A. F. even. This from the report of the secretary: "How are we to get such a collection? It was thought two years ago that growers would gladly contribute samples free of charge for testing purposes. A year ago this idea was still strong amongst us, and additional appeals were sent out, but up to date the response has been so meagre that we now feel convinced that we will have to buy them." Unfortunately for the S. A. F. and for its intentions toward the peony, we believe the carrying out of the work sought to be accomplished has been placed in wrong hands. And we say this in all kindness, and with due respect to the men composing the committee appointed by ex-President Burton with so much difficulty.

On the other hand, the American Peony Society has the good will and support of the most prominent peony growers of the country. It has gotten together a fairly comprehensive and representative collection of varieties. It has established a testing ground for these varieties, under the supervision of an unbiased and competent practitioner. The Peony Society has held meetings, given exhibitions, and offered a list of premiums sufficient to beget and encourage competition at its shows. It will do more as the years pass, for it believes in work and has but little faith in talk. The men in charge of the Society's affairs are all practical peony growers, actively engaged in the cultivation of the plant, with a thorough knowledge of the subject they have in hand, and of the extent and importance of the work that must be done to put the peony on a satisfactory footing as regards nomenclature and otherwise. They have not sought to foist new names on the growers for acceptance and adoption in an arbitrary manner, but, like sensible men, have decided to await the results of proper tests and sufficient determination of identity before heralding any name as the designation they desire to be generally recognized. This accounts for the interest manifested in the work of the latter organization. To the lack of these mentioned qualities in the former body is no doubt due the reported apathy and indifference both to it and its operations.

In the same issue our contemporary makes a strong plea for the specialist, and, probably, rightly so. What holds good for the individual in specialization is equally applicable to society specialization. The present status of the American Peony Society and of the S. A. F. peony committee would tend to endorse the greater desirability of the former as against the latter method. But with all that, the S. A. F. itself will lose nothing by the thorough work of the American Peony Society. Rather will it gain; for, as stated by President Ward, when the organization of which he is the present head has completed its investigations, all the documents will be turned over to the S. A. F. for its purposes. Further effort on the part of the latter body, therefore, would seem superfluous; and, certainly, anything but a spirit of antagonism or the traits of an empty boaster should characterize any one of its officials.

To return to the Chicago show. The premium list is ready, and copies of it can be obtained on application to Secretary A. H. Fewkes, Newton Highlands, Mass.

Name Wanted.

LANCASTER, PA.—We are in receipt of one of our return envelopes enclosing one dollar bill and a blank sheet of paper. The envelope was mailed on June 5 at 3 p. m. Will our correspondent please forward his name, so that proper credit can be given him?



Mark Reeves.

Mark Reeves, for a long time past in the retail florist business on North Broad street, Philadelphia, Pa., died very suddenly on Wednesday morning last.

D. R.

Michael A. Lynch.

On Saturday night, May 27, Michael Lynch, of Menlo Park, one of California's foremost growers, died suddenly, from a paralytic stroke while cutting asparagus in one of his greenhouses. Mr. Lynch was born in Ireland 58 years ago, and in the suburbs of San Francisco during the last thirty years he had been a successful floriculturist—"the most skilled in the trade," said a local seedsman of prominence. The Memorial Day funeral of this beloved man was very largely attended by florists and growers, whose contributions of beautiful floral pieces were very numerous, especially noteworthy emblems being those from the Cox Seed Company, John H. Sievers Company and Frank Pelicano Company and other San Franciscans; also from J. C. Vaughan, president S. A. P. O. H., who is here visiting, and from Florist Evans, of Salt Lake; Martin & Forbes, Portland, and two Seattle florists, whose names could not be ascertained. The floral pieces credited to the three cities named were wired orders to the Frank Pelicano Company.

A.

William Joyce.

William Joyce was knocked down and killed by an automobile at Broad and South streets, Philadelphia, on Saturday evening, June 3. He was one of the few left of the old-time gardeners, and was 72 years of age. Mr. Joyce was famous even back in the early sixties as an expert grower of ornamental foliage plants, and was a most successful cultivator of fruit under glass in those days, being even in 1863 an exhibitor and prize-taker at the exhibitions of the Pennsylvania Horticultural Society. At that time he had charge of the famous establishment of Mr. Mathias Baldwin at Wissinoming. This place being eventually closed up, at Mr. Baldwin's death, Mr. Joyce came into Philadelphia, and up to about 1897 had charge of the famous Baldwin conservatories on Chestnut street, above Eleventh. One of the houses fronted on Chestnut street, and was kept filled at all seasons of the year with choice flowering plants, it being Miss Baldwin's wish that the public, who could not afford such a luxury, should have the pleasure of looking at these things. Miss Baldwin died about 1897; then Mr. Joyce went to take charge of the city conservatories of Colonel Brock, at 1612 Walnut street. John Joyce, a son, is in charge of the well-known establishment of Miss Gibson, at Wynnewood, Pa., a sister of Mrs. Brock. The deceased had not taken any active interest in horticultural affairs in recent years, having lived a quiet and rather retired life.

DAVID RUST.

Society of American Florists and Ornamental Horticulturists.

Preparations for the convention at Washington are being rapidly completed, and progressive reports received from all departments indicate a widespread interest and the probability of a very large attendance on this occasion.

The opening session will be held at 2 p. m. on Tuesday, August 15, when the usual opening addresses and reports will be presented. The evening of that day will be devoted to the president's reception, which will be a very enjoyable social affair. On the two following days the sessions will be in the forenoon and evening, the forenoon meetings being devoted to nominations, elections, discussions upon practical topics, etc., and the evening sessions to two lectures, one on "Work of the Bureau of Plant Industry, U. S. Department of Agriculture, in Its Relation to Floriculture and Horticulture," by B. T. Galloway, Chief of Bureau, illustrated by stereopticon slides; the other on "Work of the Bureau of Plant Industry in Encouraging Civic Improvement and the Teaching of Horticulture in the Public Schools," by Miss Susan B. Sipe, also illustrated by stereopticon slides.

Attention is called to the prizes offered by Treasurer Beatty—\$25, \$15, and \$10, for the first, second, and third best essay on "The Ideal Employer." These papers must be sent to the office of the secretary not later than July 15 without signature, but with the name of the writer accompanying same for the purpose of record, and should not exceed fifteen hundred words each.

Attention is also called to the offer of a silver medal for the best display of cut flowers to be shown in vases.

There will be a very comprehensive special exhibit by the U. S. Department of Agriculture.

The trade exhibit will be held in the National Rifles Army, and the sessions of the Society in Carrol Hall, which adjoins that building. The exhibition will be under the management of George H. Cooke, Connecticut avenue and L street, Washington, D. C., and these wishing to secure space should make prompt application to that gentleman. Contrary to the custom heretofore, the exhibition hall will remain open throughout the day without interruption.

The bowling fraternity are actively preparing for an interesting tournament between the representatives of the various cities. Information regarding this feature can be had from Phil. Hauswirth, Chicago, or John Westcott, Philadelphia.

Up to the present time reduced railroad rates on the certificate plan have been granted by the Trunk Line, New England and Southeastern Passenger Associations, covering all the territory east of Buffalo and Pittsburg, and south and east of the Ohio and Mississippi rivers, also all points in Canada east of and including Toronto. The Central and Western Passenger Associations, which control transportation west of the above-mentioned territory, have not yet been heard from, but will undoubtedly grant a similar reduction—that is, one and one-third fare for the round trip, certificate plan.

Ask your State vice-president, or the secretary of the nearest florists' club, for railroad rates and for information regarding excursions which are being arranged that will pass nearest to your home city.

Full details will appear in the preliminary program which will be sent out as usual early in July. The secretary will be glad to answer any inquiries regarding further particulars.

WM. J. STEWART, Secretary.

11 Hamilton Place, Boston.

American Carnation Society.

The next annual meeting of this society will be held at Horticultural Hall, Boston, Mass., January 24 and 25, 1906. These dates have been reserved for us; and thus early there are indications of an unusual interest being taken in the meeting and exhibition. The preliminary premium list will be issued early in July, and will be mailed to all members and any others who may apply for same. Some special features in the program will be of interest to all carnation growers. Offers of special premiums, and inquiries, should be addressed to the secretary.

ALBERT M. HERR.

Lancaster, Pa.

BOOKS RECEIVED.

MISSOURI BOTANICAL GARDEN, SIXTEENTH REPORT, 1905.—The director of the garden, Dr. Wm. Trelease, in his report, states: "No marked changes have been made in either the quantity or variety of the plants used for general decorative effects, but increased care in the selection of plants for this purpose has resulted in a notable improvement in the quality of the bedding. For the first time in the history of the Garden the entire parterre was this year used for bulbs before being planted with the customary Summer foliage plants, and those who saw it during the flowering period of the tulips witnessed an unusually beautiful display of these showy flowers, harmoniously and instructively arranged. The number and variety of dahlia, gladiolus and chrysanthemum plants grown has also been greater than ever before, and the dahlia and chrysanthemum collections in particular attracted much favorable attention." The Garden received many valuable accessions from various sources represented at the St. Louis World's Fair Exposition. The records show that 3,050 species and varieties, not represented at its beginning, were added to the Garden collections during the year. The total is now 14,207. The visitors to the Garden in 1904 numbered 316,747; and it is estimated that about one in ten of the persons who went to the Exposition also visited the Botanical Garden. It is stated that, by authority of the board, the fifteenth banquet to the gardeners of the institution and invited florists, etc., was given as a collation served in the Linnean House on the afternoon of August 19, when 465 members of the Society of American Florists were received as the guests of the Garden.

In connection with the exhibition of the World's Fair Flower Show Association twelve "Shaw medals" were offered and cash prizes to the amount of \$160. The latter were awarded by the judges and paid for worthy exhibits of flowering orchids, and three of the offered medals were awarded by the judges and issued as follows: To Vaughan's Seed Store for the Baby Rambler rose; to John Scott for Nephrolepis Scottii, and to F. R. Pierson for Nephrolepis Piersoni elegantissima. At this flower show, the Garden for the first time in its history made competitive entry, exhibiting a mass of some fifty varieties of chrysanthemums, and two large specimen plants of Rhapsis flabelliformis—for the former of which first prize was awarded. It is gratifying to note the desire of this scientific institution to help along, in a practical way, the cause of general horticulture, something, we feel sure, is greatly appreciated by the craft.

The scientific papers included in the Report embrace among others: Two new Texas Tradescantias, a Disease of Black Oaks caused by Polyporus obtusus Berk.; Disease of Cauliflower and Cabbage, caused by Sclerotinia, a Disease of Cultivated Agaves due to Colletotrichum. Illustrations of a "Strangling Fig Tree," etc. Numerous plates and other illustrations accompany the text.

The Eckford Testimonial Fund.

Editor Florists' Exchange:

We enclose a small contribution toward the Eckford Testimonial Fund. We trust there are many other lovers of this most popular and useful of flowering annuals who can add a little to the amount already collected.

If you take away the Eckford varieties of sweet peas, how poor a list we have left! Even in the Spring months they are now the most salable flowers in our markets, while in Summer none can compare with them in popularity, except it be hardy roses for a brief period. They are of such easy culture that the humblest cottager can grow them. They succeed well in practically every State in the Union. Even at Dawson City splendid ones are grown. But for the life work of this most painstaking of all sweet pea hybridists our gardens would be very much poorer to-day. Honor to whom honor is due, no matter whether he has American blood in his veins or not.

North Easton, Mass.

W. N. CRAIG.

Subscriptions acknowledged.

The Florists' Exchange.....	\$10
Burpee, W. Atlee & Co.....	10
Morse, Lester (of C. C. Morse & Co.) direct to secretary of National Sweet Pea Society, England, 25 Rowden, George, Wallingford, Conn.....	2
Craig, W. N., North Easton, Mass.....	1

Training Peaches and Nectarines.

Editor Florists' Exchange:

We read with much interest H. J. Corfield's letter on this subject, and quite agree with Mr. Turner's reply to the same. Our fruit houses here are of the lean-to type, and therefore not adapted to the crosswise system of planting. But if we were planting a span-roofed house to-morrow it would be on the crosswise plan. We have noticed in several establishments where Mr. Turner's system has been adopted that the results are in every way satisfactory. There are more square feet for the trees; they are more easily cared for, and when it comes to keeping red spider in check, the older system is far the worst. Fruit grown under the crosswise plan is just as large and luscious as when trained up to the roof.

Fruit culture in England and America are two very different propositions, owing to our stronger sun heat; but even in the south of England the crosswise plan is found very satisfactory on some estates.

In regard to replacing bloom on berries, we have seen "artificial bloom" which came very near the real article; in fact, it would deceive any one but an expert. We understand this "doctoring" process is occasionally tried still by some of the big grape growers in England and Scotland, but we are unable to give a recipe for it.

W. N. CRAIG.

J. W. Duncan Should Get a Whole Medal.

Editor Florists' Exchange:

We would like Job to give our half of that leather medal to J. W. Duncan. He proved, on June 3, that he deserved it. He recently waxed eloquent over the delinquencies of the plant committee of the Massachusetts Horticultural Society for not judging more speedily, etc. Exhibits at our smaller shows must be in position by 11 a. m. Mr. Duncan, on June 3, decided to show the committee how he could do things, so arrived at 10.45 a. m., with a very nice collection of branches of flowering shrubs from the Boston Park department. At 12.30, half an hour after the plant committee had completed its awards, the exhibit was staged and labeled.

The committee were glad to have Mr. Duncan's exhibit, and hope to see him on many future occasions. If, however, he can get round about two hours earlier, we would appreciate it. Meantime, to show him a little needed encouragement, we want him to have the whole of that leather medal, and, if possible, give it some brass trimmings.

North Easton, Mass.

W. N. CRAIG.

They Object to His Letter.

Editor Florists' Exchange:

I am instructed to forward you a copy of the following resolution passed at the meeting of the Montreal Gardeners and Florists' Club on June 5:

Whereas, Since our last meeting, there appeared in The Florists' Exchange a letter from a florist in this city commenting on the paper, "Impressions of Canadian Horticulture," read before this club; and

Whereas, Said comments cast serious reflections on the intelligence of the members of this club; therefore, Be It Resolved, That this club is of the unanimous opinion that the comments from said florist were most emphatically uncalled-for and unjust, and that a copy of this resolution be sent to The Florists' Exchange, asking that same be published.

W. H. HOROBIN,
Secretary-Treasurer.

New York's Plant Market.

New York City, officially (or municipally) has never taken much interest in a plant and flower market, and, judging from the scant success that plant growers have met with during the last few years in their efforts to secure some recognition from the municipal authorities, it is not likely that the city will ever construct and provide a building that shall be devoted to that purpose. In spite of all the disadvantages which the market growers have had to contend against, they have kept united as a body, and but recently became incorporated, under the title of the New York Market Florists' Association, the present officers being: President, George Darsley; secretary, P. Daly; and treasurer, H. C. Steinhoff.

To give a brief history of the market we cannot do better than quote from the New York Florists' Club's Souvenir of the visit of the S. A. F. O. H. to this city in 1900, the most complete souvenir that society has ever had, which was the work of Alex. Wallace, Editor of The Florists' Exchange. Mr. Wallace says:

"The exact date when plants first began to be sold in the market places of the city is somewhat obscure. Grant Thorburn, about the beginning of the present (nineteenth) century, mentions having seen, for the first time, a man, George Inglis, selling plants in the Fly-Market. Louis Menand, in his Autobiography, tells of George Thorburn finding a then scarce plant, *Pimelea decussata*, among the stock of a woman vendor of plants in Fulton Market in the year 1840.

"One of the earliest market stands for the sale of plants was in Vesey street. An old-time florist mentions that he attended that point as far back as 1825.

erto the buyers mostly occupied stands on available street corners and around the markets, especially Center Market. The East Side seemed to be a favorable place to dispose of plants, but after the location of the market was changed, Eighth avenue and the West Side took the lead. At the present time, since the peddler appears to have monopolized the business, it is hard to say where the best plant-buying district lies. Since the advent of the peddler, too, the cultivation of plants for the New York market has narrowed down to geraniums, roses, verbenas, heliotropes, and other stock in common demand for city and suburban trade.

"In the Spring of 1891, chiefly through the efforts of Mr. John Morris, a florist of Jefferson Market, who before and after his election to the office of Alderman of the city, did everything in his power to promote the undertaking, a plant market was opened in Union Square, and was in operation there for six seasons. For one reason or other, chiefly the importunings of customers by peddlers, the market men attending this point gradually returned to Canal street, and in December, 1897, a Market Florists' Association was established for the purpose of securing the old Clinton Market Building, Canal and Washington streets, for market purposes. While not all of the market florists have yet been weaned from the open-air stand, the principal men, numbering forty, hold stall space in the Clinton Market Building—a structure, however, that is hardly in consonance with the aesthetic nature of the business; certainly one that is no credit to an opulent and prosperous city like the great American metropolis for the sale of florists' stock.

"The approximate value of the plants sold here during the season, lasting from the second week in April till the second week in June, is \$160,000. There are about 110 market florists who sell at this point, with a daily average attendance of 75 wagons. Stalls inside the Clinton Market rent at from \$1 to \$1.25 each. The market is practically 'always open' during the season.

and each year since the same provision for a market has had to be made.

This year two tents are being used, one 60 x 110 feet, the other 46 x 80 feet, in dimensions, and we illustrate the interior of each of them, and in addition give a view of the walk outside, showing some of the wagons of the growers and peddlers, and a part of the fence which encloses the grounds on which the tents stand.

But looking at the picture which contains the larger number of both plants and people, those familiar with the trade will easily recognize some of the well-known characters of the flower business in this city.

We may mention that the photographs were taken at three o'clock on the morning of Saturday, June 3.

By those who know him—and who in town does not?—the classic features of John Weir, of Brooklyn—Boss Weir, as he is more often called—will be instantly recognized. Mr. Weir is the typical early bird, and is always on the spot. Time was when an alarm clock had to be used to break his slumbers at one o'clock in the morning, but the discordant notes of that modern invention are no longer required. Whatever the season of the year, or the hour of night or day, wherever there are plants or flowers for sale in public, there we always find the genial, ever-smiling countenance of Boss Weir.

Standing next but one to Mr. Weir, on the right, is the largest Hebrew plant grower in the United States—Israel Eisenberg, with greenhouses located at Astoria, L. I. Mr. Eisenberg is just about as shrewd in driving a bargain as it is possible for a man to be, and he is always busy. Yet he will always take time to stop and tell a funny story. To the right of Mr.



Rhododendron Lucidum, Awarded a Silver Medal
Grower, T. D. Hatfield



Calceolaria Rugosa Little Gem, Awarded First-Class Certificate
Grower, C. Rust



Group of Orchids, Awarded Appleton Silver Gilt Medal
Grower, Emil Johannsen

SOME OF THE EXHIBITS AT THE RECENT BOSTON FLOWER SHOW

About the time of the outbreak of the War of the Rebellion, the plant market in Vesey street was still in full swing, and some thirty or forty wagons could be seen there in the early morning during the season. The principal stocks grown by the market men in those days were roses, chiefly Louis Philippe, La Reine and Madame Plantier; a light colored fuchsia named speciosa, and the variety Rose of Castle that had just made its appearance here, although known in the old country long before. An old market florist, a Frenchman, named Louis Surgeon, who made a specialty of roses, had just commenced bringing in the now popular General Jacqueminot, a rose which took the market by storm. Louis' prices were 50 cents for a plant with one bud; 75 cents for a plant with two; and one dollar or more for a plant with three buds.

"About 1857 or 1858, the late Mr. John Henderson, of Jersey City, commenced to grow plants for market, and through his London connection was the means of introducing many new varieties, notably the dark fuchsias, one of which in particular (Prince Imperial) had a great run for a number of years—well-grown specimens selling for 50 cents and sometimes more. After roses and fuchsias came verbenas. The late Mr. Peter Henderson inaugurated the method of putting them up in baskets; one dozen varieties in each basket. This soon became the general way of marketing these plants, and they proved a profitable crop until the verberna disease struck them. Lady Washington pelargoniums, pinks and lantans were also more extensively grown than they are today.

"The market was moved about 1869 or 1870 to the small triangular space, foot of Canal street and North River; and although part of the space was occupied by cobblestones, heaps of boulders, and other rubbish, the florists felt great relief from the cramped quarters they had been used to.

"The class of customers now began to change. Hith-

"The palm, foliage, and flowering plant trade in New York City may be said to have been inaugurated by the late Mr. Wm. C. Wilson, of Astoria. Begun on a small scale, it has, in common with other branches of the industry, grown to immense proportions. The annual retail value of the stock from local growers will approximate upward of two million dollars. Easter is now the festival mostly catered to by growers, many confining themselves to specialties for that day alone. The trade in plants for this occasion has supplanted that of cut flowers, far exceeding also the volume of trade at Christmas; in fact, the Easter business in plants represents almost half the total annual value of the whole output of the plant growers."

Our illustrations show the market as it is at the present time. Several years ago the old Clinton market became so dilapidated that for the public safety it was absolutely imperative that the structure be torn down and the debris removed; it had become exceedingly dangerous to those who were doing business therein, and the city removed it.

After the building had been cleared away, in 1902, it was for some time thought that the city would erect a suitable market building on the old site, but the opposition of Commissioner Woodbury, of the Street Cleaning Department, evidently was too strong. He wanted the property as a storage place for his street cleaning vehicles, and, to a certain extent, he got it.

The Market Florists' Association has, since that year, every Spring, leased a certain portion of the ground space, paying a good rental for the same, and has erected tents, under which they hold their market. The first tent was constructed in the Spring of 1903,

Eisenberg stands Ex-Mayor of Hoboken Chas. Dietz, a much-respected citizen, and an honor to the profession. Unfortunately, his features did not come out quite clear, from no fault of his, however.

To the left of Mr. Weir, and but a few feet away, is seen that venerable lady florist, Mrs. J. Friedlander, a retailer from upper Broadway. Although nearing the four-score mark, she attends to business every day, and is a regular habitue of plant auction marts, as well as a regular attendant at this early morning market.

Further along the line, to her left, is seen the features of that calm, implacable Scot, John Birnie, the head and front of the Market Florists' Association. Always ready for an argument, a hater of anonymous scribbles, a free dispenser of Scotch whiskey (though using very little himself), a very able writer, a hard worker, a great lover of the bagpipes, a first-rate amateur violinist (note, he don't play the pipes), possessed of determination and perseverance to a remarkable degree, he is ever able to get the ward politicians interested in the scheme for a new market. And although, so far, all endeavor in that direction has hitherto been futile, when the matter has been brought before the city authorities, that fact does not in any way detract from Mr. Birnie's efforts. Further along the line we see the ever-smiling face of Bob Leach, one time secretary of the association, and a tireless worker for the cause. The priestly figure near the right of the picture, is that of the general manager, Mike Smith, the watchman of the market, and a faithful servant.

Rhododendron Show at Boston.

The rhododendron show of the Massachusetts Horticultural Society, which was held on Saturday and Sunday last, while not so extensive as those of like kind held in former years, yet was more largely attended and was more interesting than any show recently given.

Rhododendrons this year are poor in this locality, not only on account of the severity of last Winter, but also owing to an exceptionally dry Spring. For cut blooms in twelve distinct varieties, Wm. Riggs, gardener to Mr. E. A. Clark, was first, with a collection including *Album elegans*, *Guido*, *Everestianum*, *A. Damer*, *Jas. Marshall Brooks*, *Baroness Bousoler*, *Miss Milner* and *Damicum atrovirens*. For six distinct varieties, Wm. Thatcher, gardener to Mrs. J. L. Gardener, was first with *Kettledrum*, *Everestianum*, *delicatum*, *Sherwoodianum*, *Hannibal* and *Charles Dickens*. The *Blue Hills Nurseries* was second in this class and *W. J. Clemson* third. *Wm. Whitman* and *T. C. Thurlow* were the exhibitors of hardy azaleas. *Wm. Whitman* was the only exhibitor in the class for German irises, and *Wm. Thatcher* and *W. J. Clemson* exhibited pyrethrums. The *Blue Hills Nurseries* was first for the collection of herbaceous perennials and *Warren Heustis*, *E. A. Clark* and *Mrs. J. L. Gardener* exhibited flowering shrubs.

An interesting exhibit was a collection of hardy shrubs from the Boston Park Department. These were shown in large vases and were a feature of the exhibition, especially when such rare plants as *Betchel's crab*, *Symplocos cratagoides*, *Photinia villosa*, *cratægus* in many fine varieties, *loniceræ* in many forms, including the rare *Alberti* and *syringantha*, *viburnums* in many varieties, including the rare *Sargentii*.

T. D. Hatfield exhibited a fine plant of *Rhododendrum lucidum*, for which a silver medal was awarded. Two striking plants of the fine old-fashioned *Calceolaria rugosa* were exhibited by *C. Rust*, gardener to *Dr. G. C. Weld*. These received a first class and also a cultural certificate. A fine display of orchids was made by *Emil Johanssen*, gardener to *Mr. J. E. Rothwell*, who captured the *Appleton silver gilt* medal for the same. Among the varieties noticed were *Cypripedium niveum* and *Curtisii viridis*, *Odonoglossum pescatorei*, *crispum*, *hebraicum*, *Haryana*, *citrosimum*, *Miltonia vexillaria*, *lælias* in hybrid varieties, and *Masdevallia Haryana*. *E. O. Orpet* exhibited seedling orchid *Pacavia* (*L. tenebrosa* X *L. purpurata*), for which he was awarded a first-class certificate. Other exhibits included a collection of herbaceous plants from *R. & J. Farquhar & Co.*, and a collection of palms and ornamental foliage plants from *Edward Macmulkin*.

J. W. DUNCAN.

Tuberous begonias were splendidly shown by Messrs. J. Laing & Sons, the oldest firm that has done these plants well; also by Messrs. T. S. Ware, Blackmore & Langdon, L. Gwillim, and H. J. Jones, who also put up a fine lot of pelargoniums and sweet peas. Messrs. Jones & Sons, Shrewsbury, staged sweet peas in fine condition, and several others came out strong with these popular flowers.

Caladiums were a great feature; those in Messrs. Veitch & Sons' mixed group were remarkably fine. Messrs. Peed & Son, Norwood, put up a large group which included some fine new sorts. Those from Messrs. J. Laing & Sons were also very good and included all the finest varieties.

Orchids were well shown by all the leading growers, some remarkably fine varieties, which I hope to refer to later.

Sandera was grandly shown; several other exhibitors also had this in fine condition. Ferns were exhibited by Messrs. J. Hill & Son, Edmonton, and by H. B. May, who also had some good zonal pelargoniums. Messrs. Carter & Co., Holborn, made a large exhibit of calceolarias, gloxinias, begonias, verbenas, rock plants, cut carnations, etc.

Rock gardens were well arranged by several exhibitors. Tulips were not quite so numerous this year, but some fine exhibits were made, those from A. Dickson & Sons, Belfast, being very good. R. H. Bath, Wisbech, also showed.

In hardy flowers the groups from Messrs. Wallace, Colchester; Amos Perry, Winchmore Hill; Barr & Sons, M. Pritchard, Christchurch, and others, were all worthy of note. A. F. Dutton showed carnations, American varieties in fine form. Messrs. H. Gow &



Chicago's Decoration Day Cut Flower Business.

The two illustrations herewith presented serve to tell far better than any mere word description the great extent of the cut flower shipping business in Chicago for the past Memorial Day. The pictures show the consignments ready for despatch on the Sunday previous; also a number of the wholesale dealers and their workers.

The time was when New York could boast of a big out-of-town trade. This has been now largely curtailed through various causes. The points to which flowers were formerly forwarded by our dealers here have, as a general thing, their own local supply nowadays. Wholesale houses have also sprung up in cities which, a few years ago, had none. The conditions under which the Chicago wholesaler labors are yet quite different from those of his Eastern confrère, but we cannot but think that the enterprising manner in which the Western men advertise their business on all opportune occasions has a great deal to do with its development to its present extensive magnitude.

Our London Letter.

BY A. HEMSLEY.

THE ROYAL HORTICULTURAL SOCIETY'S GREAT SPRING SHOW at the Temple Gardens, May 30 to June 1, was the eighteenth show held in these gardens, and from its inception has been one of the most important horticultural events of the year. And this year eclipses all previous records. From early notes taken the actual results cannot be given. The first thing that impresses one is the pity that space is so limited. Yet there is a marvelous lot of grand stock. Roses are, of course, one great feature. The tall plants of the Rambler type shown by Messrs. J. Paul & Son, Cheshunt, are pictures of culture, being loaded with long drooping clusters of bloom. This is the very best way of seeing their natural beauty. Those from W. Paul & Son, Waltham Cross, were also fine examples of cultural skill. C. Turner, Slough, put up a magnificent group, Ramblers again being the feature. Messrs. R. Smith & Co., Worcester, also had some good Ramblers, among a fine group of clematis, the latter being trained in various forms, those trained up on tall sticks showing up well among perfect specimens on the ordinary globular trellises. Messrs. Cutbush & Sons had a splendid lot of tall Ramblers among a large group of carnations in pots. The latter represented *Malmaison*, *American*, and many of our best English border varieties. This firm also showed an immense rock garden in the open ground. Messrs. Ben. Cant & Sons, and Messrs. F. Cant & Co., both of Colchester, came out well with roses.



MEMORIAL DAY OUT OF TOWN SHIPMENTS FROM CHICAGO'S WHOLESALE CUT FLOWER DEALERS

Photos by Gibson Art Galleries, Chicago

Azaleas of the mollis and Ghent varieties were grandly shown by Messrs. Cuthbert, Southgate. Messrs. Sander had a splendid group of *Azalea indica* in best varieties. Rhododendrons from Messrs. J. Waterer & Sons, Bagshot, were very fine, especially *Pink Pearl*, and quite a number named after the Waterer family were worthy of note. Messrs. Sutton & Sons, of Reading, filled one end of the large tent with gloxinias, calceolarias, cinerarias, schizanthus, and other flowering plants. In Messrs. Veitch & Sons' miscellaneous group the nepenthes were specially worthy of note, also crotons and dracaenas; and in the open ground they had a grand lot of tree peonies in pots, *eremurus*, their new *Meconopsis integrifolia* and *M. punicea*, with other good things. Messrs. Bull & Sons, Chelsea, put up a good group of foliage plants in which were some good new things.

In Messrs. Sanders' miscellaneous group *Nicotiana*

Co. also had a fine lot of carnations, *Malmaisons*, and other sorts.

Hardy foliage and flowering plants in large groups on the lawn were more numerous than usual. Messrs. Fisher Son & Sibray made a fine display, variegated plants being a great feature. Messrs. Thos. Cripps & Sons' group consisted chiefly of Japanese acers, which were in fine condition and represented in large specimens. Messrs. Cheal & Sons, Crawley, had a fine group which included a good many flowering shrubs and hardy variegated trees. L. R. Russell, Richmond, made a beautiful display, clematis, *ceanothus*, and other hardy flowering plants being well shown. David Russell, Brentwood, made a similar display. Messrs. Cutbush & Sons' large display of shrubs, cut and trained in various fantastic shapes, filled a large space. Messrs. Barr & Sons, and Messrs. Carter & Co. had a large display of dwarfed Japanese trees.

Review of the Market

NEW YORK.—Far too many flowers are being received every day for the volume of business that is being done, and prices, necessarily, do not improve.

The supply of carnations, strange to say, is keeping right up, if not increasing, and the quality is fine.

Peonies are in the height of their season and are bringing from \$1 to \$4 per 100, exceptionally fetching 75c. per dozen.

CINCINNATI, O.—Prices will drop a little this week, and the quantity of stock, I am afraid, will also, as to-day (June 5) at this writing—3 p.m.—the thermometer is standing at 90 degrees in the shade.

CHICAGO.—Trads the past week has not been as good as heretofore; a season of Summer dullness prevails in all lines, and prices have at last reached the usual seasonable basis.

flowering bedding plants suitable for cemetery work and cut flowers disposed of was above the average.

Considerable quantities of outdoor garden flowers are coming in, and, in some cases, these are found to sell better than the old standbys.

INDIANAPOLIS.—The month of weddings is deserving of its name this year, the several retailers having a number

In view. Funeral work is up to the standard and stock is plentiful, so that altogether a prosperous month is anticipated.

WASHINGTON, D. C. — Decoration Day was quite a success from the florist's point of view, and the quantity of

TELEPHONE CALL, 1207 W. MURCH.

ENTRANCE, 65 HOOPER STREET.

JOHN SCOTT, KEAP STREET GREENHOUSES,

BRANCH, EAST 45TH ST., RUTLAND ROAD, FLATBUSH.

Borough of Brooklyn, N. Y., May 31, 1905

Publishers, The Florists' Exchange

Dear Sirs:—

Answering your inquiry of recent date, the large amount of advertising placed by me with The Florists' Exchange the past year--which was much in excess of that given to other trade-papers--demonstrates, I think, my faith in your paper as a profitable advertising medium.

Yours very truly,

John Scott

J. L. Loose has incorporated his firm, with Otto Bauer as manager.

PITTSBURG, PA.—Business the past week was fair, with an abundance of stock, particularly peonies, which are difficult to dispose of.

BOSTON.—All kinds of flowers are now plentiful; in fact, so much so that

there has been a decided drop in prices. Of many things there is an oversupply.

ST. LOUIS.—Decoration Day business proved a big surprise, and nearly all the trade report that the usual business on that holiday was doubled this year.

This week the market opened up rather slowly, with stock none too plentiful and prices as follows: American Beauty, fancy, \$2.50 to \$3 per dozen; \$1.50 to \$2 for medium, and 50c. for shorts.

NEW BEDFORD, MASS.—Everyone is satisfied with the business done on Decoration Day. Roses and carnations were none too plentiful; 75c. to \$1 was asked for the latter, while roses brought \$1.50 per dozen.

The city is becoming more and more involved in debt, and, as a last resort, the City Fathers have laid off most of its employees, the parks and common having shut down completely, while half the force in the cemeteries and the street department is laid off.

CHANGES IN BUSINESS.

DEADWOOD, S. D.—Andrew Danlele has started in the florist business here.

PORT HURON, MICH.—W. B. Peiksy will sell flowers here at his store on Gratzot avenue.

DU BOIS, PA.—G. L. Tyler has entered into partnership with W. C. Smith, of San Juan, Porto Rico, and will leave for that point shortly.

MARYSVILLE, KAN.—Fred Frye has purchased the Koester greenhouses, and will embark in the florist business.

FIRMS WHO ARE BUILDING

BROCKVILLE, ONT.—R. B. Heather has added a greenhouse 45x90 feet.

ROCKFORD, ILL.—H. W. Buckbee will soon begin the erection of a greenhouse 195x290 feet.

WATERLOO, IA.—Charles Sherwood intends adding to his plant one house, 20x125 feet, and one 50x21 feet.

GREENSBORO, N. C.—J. Van Lindley is enlarging the capacity of his greenhouses at Pomona to give one-third additional capacity.

BOWLING.

FLORISTS' CLUB OF PHILADELPHIA BOWLING TOURNAMENT.—The following are the averages made in 15 games in the tournament just finished.

Table with 2 columns: Name and Average. Includes Elmerman (172), Hanna (164), Kift (158), Craig (162), Baker (149), Team average (159), Robertson (165), Gibson (168), Adelberger (161), Mehorter (156), Donoghue (150).

Table with 2 columns: Name and Average. Includes Team average (150), Yates (151), McCauley (165), Holmes (155), Huttenlock (144), Merblitz (153), Team average (155).

Table with 2 columns: Name and Average. Includes Dunham (165), Westcott (161), Harris (161), Hoffman (143), Gardner (155), Team average (159).

Table with 2 columns: Name and Average. Includes Moore (169), Bonsall (155), Falck (162), Habermehl (150), Gray (144), Team average (158).

Table with 2 columns: Name and Average. Includes Connor (173), Polites (168), Dungan (147), Dadds (150), Harvey (155), Team average (162).

The tournament, to select the team to represent the club at the S. A. F. convention at Washington, will be held during July. DAVID RUST.

stemmed stock, bring 25c. to 40c. per 100; lily of the valley, \$3 and \$4; shipped in peonies, \$4 per 100. Local stock is all cut out.

A great deal of building is contemplated this Summer around St. Louis, and some of the growers are busy with alterations.

KALAMAZOO, MICH.—Decoration Day business proved a most satisfactory one, and showed an increase over that of last year.

PROVIDENCE, R. I.—We can report a very large business on Decoration Day, both plants and flowers working off to the best advantage.

Advertisement for 'GET OUR BOOKLET' featuring a cartoon character and text: 'ALL APHIS IN A HOUSE 100 X 25 FOR 10 CENTS'.

New York.

News of the Week.

With the exception of one or two days, the weather in this vicinity has been unseasonably cold this week. Copious rains have fallen, and these were badly needed in some places, particularly in the nearby Jersey towns.

The next meeting of the New York Florists' Club occurs Monday evening, June 12, and this will be Ladies' Night. The house committee, in charge of J. E. Nugent, has made elaborate preparations, and the ladies who attend (and we expect a great many) will be ensured of a right royal entertainment. This is also peony night, and exhibitors who cannot come in person are requested to forward their exhibits to John Young, secretary, 51 West Twenty-eighth street, and the flowers will be properly cared for and staged. The secretary of the outing committee, J. A. Shaw, announces that the program of the outing will also be ready for distribution at this meeting, and that \$200 in advertising has been secured for the program; a similar amount of money has been donated for prizes. Among the donors of prizes are: President F. H. Traendly, Vice-President J. A. Shaw, Secretary John Young, J. B. Nugent, J. K. Allen, John Birnie, L. B. Craw, W. J. Elliott, J. G. Esler, Jos. Fenrich, Ford Bros., E. W. Holt, J. C. Vaughan, J. Millang, F. R. Pierson Co., P. Kessler, L. J. Kreshover, A. L. Miller, Lager & Hurrell, T. J. Lang, A. H. Langjahr, Patrick O'Mara, B. Suzuki, Alex. McConnell, Moore, Hentz & Nash, Chas. Schenck, J. Rochrs, Jr., W. F. Sheridan, W. H. Siebrecht, H. A. Bunyard, John Scott, J. I. Raynor, W. C. Mansfield, E. C. Horan, W. B. Du Rie, W. A. Donahue, C. B. Weathered, Louis Schmutz, and The Florists' Exchange.

The illustrations seen in this issue of the plant market at Canal street were made from photographs taken by L. S. White, 105 Fourth avenue. Any one desiring duplicates can purchase them from Mr. White, at 50c. each.

Henry Reidel, a florist employed by Hermann Warendorf, fell down the subway stairs at Twenty-eighth street and Fourth avenue the day before Memorial Day and suffered a fractured skull. It is expected that he will recover.

The Olympia Florist, a firm name used by John G. Tarkazikis, John Chigranis, and Gregory Chigranis, who have been doing business at 57 and 101 West Forty-second street, have filed a petition in bankruptcy with liabilities of \$3,012 and nominal assets of \$500, in fixtures which are mortgaged for \$500 to Michael Chigranis. All the debts were contracted between April 15 and May 15, this year.

This has been the best year for the growers who attend the plant market at Canal street every morning that has been recorded for a long time. Some of the Jersey growers who have made this their distributing point for a generation, say that not for ten or fifteen years has business averaged so good as it has this season.

At the sale of the Ditzberger Brothers greenhouses, which occurred on Thursday, June 1, all the greenhouse material and other portable property were disposed of at what were considered good figures. Very few plants were left on the premises when the auctioneer, J. P. Cleary, commenced the sale, and these were sold in one lot, fetching \$45.

The wholesale stores have been deluged with peonies this week, and there was never before a season when they were of finer quality, or when they were so numerous. John Young is receiving them in the largest quantities, getting, daily, many thousands from C. W. Ward, the Cottage Gardens, Queens, L. I.

John Birnie sailed for Scotland Wednesday, on the Oceanic, to pay his mother a long-deferred visit. While away his business will be in charge of his son, John Birnie, Jr. Chas. Thorley was also a passenger on the Oceanic on his annual trip to the other side.

The Johnston Heating Co. is the name of a new firm of steam and hot water engineers that has just opened an office in the St. James Building, corner of Broadway and Twenty-sixth street. Mr. Johnston, who was formerly with the firm of Hitchings & Co., claims that

by eliminating a number of the unnecessary preliminary expenses, heating apparatus can be installed at much lower cost than is usual.

A. J. Guttman, wholesale florist at 52 West Twenty-ninth street, has leased the store at 43 West Twenty-eighth street, and will take possession October 1 or earlier.

Phil. Kessler, who for some time has managed the sales department of the Cut Flower Exchange, left that position on Saturday last. W. Duncan, the treasurer of the company, is now in charge of that department.

James Fraser and one of his sons, of Islip, L. I., sailed for England last Saturday on board the Campania.

W. Trumppore, of J. H. Small & Sons, florists, Broadway, was seized with a serious attack of acute rheumatism while going home on Saturday last, and had to be taken to the New York Hospital.

Word has been received of the death of Mrs. J. W. Withers, on May 23, at Kingston, Surrey, England, of consumption, at the age of 35 years. She leaves a little daughter with the grandparents. Mrs. Withers was well known in local horticultural circles, having at one time acted as secretary of the horticultural department of the farmers section of the American Institute.

W. H. Donahue has taken the store at 2 West Twenty-ninth street, and will open next week as a retail florist. Mr. Donahue has for several years been in the employ of Thos. Young, Jr., 41 West Twenty-eighth street.

The wholesale stores are closing at 5 p. m. this month, and during July they will close an hour earlier than that.

Herman Kuhn, the Sixth avenue retailer, was among the passengers who sailed for Europe this week.

Newport, R. I.

News Notes.

At last it has rained, and we all sincerely hope that now we shall have some growing weather. With April cold as last Winter, and May a drought, we have had a hard time thus far. Trade with the seedsmen has slackened, but our florists are getting busier every day as Newport's Summer season approaches.

There will be a special meeting of the Newport Horticultural Society on Wednesday, when action will be taken on the delinquent members as regards unpaid dues; many other important matters will also come before the society.

A special prize for the "Rose and Strawberry Show" that has pleased the members and others interested in the Newport Horticultural Society very much has been offered by Miss Fannie Foster; namely, "for best collection of outdoor roses," three prizes, \$25, \$15 and \$10; competition limited to gardeners of Newport.

The Rhode Island College of Agriculture at Kingston has just been allotted \$31,500 by the State, to be used for a much needed greenhouse and other improvements. The horticulturists all over the State are very much pleased, as great good is being done by the college.

The best selling bedding plant, as regards retail sidewalk sales this Spring, has been the daisy (Bellis perennis); twice as many as were sold could have been disposed of if available. The going price was 5c. per plant.

Vaughan's Seed Store has been for a week represented here by William Neil Campbell. Mr. Campbell is very enthusiastic over the Baby Rambler rose, and certainly he has good reason to be. He says their new canna, King Humbert, is also becoming a great favorite.

The crop of Black Hamburg and Muscat of Alexandria grapes is a splendid one here this season with both commercial and private growers. What few have already been sold have returned a very fair price—\$1.50 and in a few cases \$2 a pound.

The following three men have been selected, as a prize committee, to make the awards at our Rose and Strawberry Show the last of this month: John P. Hammond, Andrew J. Pow, and Paul Volquardsen.

M. B. Faxon attended the rhododendron exhibition of the Massachusetts Horticultural Society in Boston last Sunday, and reports a most excellent display. The various orchids shown were especially fine. F. W.

Chicago.

News Notes.

Trade conditions here at the present time are very dull, the retailers complaining that it is worse than usual at this season of the year. This is due, in a great measure, to the protracted labor troubles.

Growers of peonies are placing more in cold storage than usual, all trying to escape the prevailing low prices. Nothing but the best varieties bring anything like a figure.

Wieter Bros. have commenced cutting from their Kaiserin Augusta Victoria roses.

C. W. McKellar is receiving consignments of fine white cattleyas, which are selling well for June weddings.

J. B. Deamud is handling considerable of the cut of peonies from the Chicago Carnation Company's place at Joliet.

August Lange contemplates a European trip in the near future; he is getting his business in shape so he will be able to leave it for two months.

The express companies, Monday, started to pick up cut flowers from the wholesale market—the first attempt since the strike was called over a month ago. Deliveries of cut flowers are being made by them from all depots.

F. Calvert & Son, of Lake Forest, had the decorations for the McCullough-Smith wedding on Tuesday, using peonies, sweet peas, lily of the valley, and campanulas in great profusion. This was one of the most aristocratic weddings that have occurred on the north shore for some time.

ROBERT JOHNSTONE.

Kansas City.

The Fall Show.

The preliminary premium list for the flower show to be held in Convention Hall the week of November 13 has been issued and copies of it are now being mailed to florists in all parts of the United States. While the list is not yet complete, the total amount of premiums offered up to date is nearly \$5,000. This sum will be increased by the addition of other classes which are contemplated, but for which arrangements have not yet been made.

The sensational feature of the show will be the offer of a prize of \$400 in the class for the best 100 American Beauty roses, the stems of which are to be at least four feet in length. This is expected to bring out a remarkable display of fine roses. Much attention will again be given to the chrysanthemums, and in nearly all the classes for this flower the prizes have been increased over those of previous years. One of the handsomest displays of chrysanthemums will be in a special class for which there is a prize of \$200 for 100 blooms of any one chrysanthemum. There is a long list of prizes for chrysanthemums in bush form, as well as many for the cut flowers.

Miscellaneous plants, such as begonias, geraniums, ferns, palms and lilies have received more than usual attention, and some fine displays of these are expected. In the class for carnations a new feature has been added by the offering of a gold medal for the best 100 blooms of any color, and this will bring the large growers into keen competition.

H. W. Buckbee, of Rockford, Ill., one of the principal exhibitors at both the shows held in Convention Hall, is so enthusiastic over the coming show that he has offered a silver sweepstakes cup for the vase of the best grown roses in the Kansas City show.

In compiling the preliminary premium list the directors of Convention Hall had the assistance of George E. Kessler, director of the show, as well as W. L. Rock, Samuel Murray and W. J. Barnes, who were appointed a committee to represent the Kansas City florists.

The premium list contains the announcement that the directors are prepared to offer suitable prizes for interesting novelties pertaining to plant life, and this is expected to bring suggestions from growers of flowers and plants in various parts of the country. —Times.

CANADIAN NEWS

MONTREAL.—The weather being very cool has delayed the planting of bedding stock, but this work is now in full swing. The demand appears to be ahead of last year's, and there will be plenty of material for all orders. Cut flower trade continues very good in all lines.

Plant thieves have been busy of late. They like George Hopton and his plants so well that they called on him three times during the last month. Hall & Robinson have also been visited.

Preparations are going on quietly for the convention in August, when we hope to have every florist in Canada, and the United States, too, with us.

Joseph Bennett will build a new greenhouse 20 by 150 feet. W. C. H.

FREDERICTON, N. B.—Frosty nights and warm days seem to be the order here. Our carnations are in full crop just now; the young stock is still in 3 and 4-inch pots in a cool house, waiting either to be benched or another shift. We purpose not planting out this year, but will try early planting. Bedding plants are beginning to sell; also vegetable plants. We made a good hit on lettuce, having had several hundred in fine shape for Easter; the demand is good yet. We are not altogether specialists here, but have to be mixed horticulturists, not having all our eggs in the one basket. Funeral designs and wedding bouquets have been in good demand since March. We hope the Summer will turn out better than the last, which was far too dry.

J. B. & S.

Hail News.

CARTHAGE, MO.—In a recent hail storm Perry Finn lost some 15,534 feet of glass. He was insured in the F. H. A.

BOONE, IA.—J. Loehrer reports that a hail storm visited this locality on June 1, but with no damage to greenhouse glass, fortunately.

FAIRBURY, ILL.—A destructive storm passed over this section May 29. Hail as large as hens' eggs fell, breaking thousands of dollars' worth of glass. Kring Bros.' greenhouses lost over 15,000 feet of glass, while A. Milne and John Milne & Son lost over 5,000 feet each. All kinds of vegetation and fruit were badly damaged.

MUNCIE, IND.—It is likely that Simon Humfeld, owner of greenhouses at Madison and Race streets, will have to install his own heating plant next Winter. For several years he has been using the exhaust steam from the city electric plant, and last week, before the Board of Works, he asked to enter into a contract for the coming year. He has been paying about \$600 yearly for the steam. Some of the members are known to oppose the plan, as it is claimed it requires quite a pressure to force the steam from the station to the greenhouses. The Board of Works is trying to cut the operating expenses of the plant, and it may be that the contract will not be renewed.

WAYNESBORO, PA.—Henry Eichholz will remove the old barn on his property and erect a new one some distance from the present location. Mr. Eichholz, in removing the old barn, will make room for the handsome new house he proposes erecting in the course of a few years.

TOLEDO, O.—Bert Oberstag, the florist, was badly cut about the face and hands last week when his wagon was struck by a Broadway car, throwing him out.

SELLERSVILLE, PA.—John Miller and daughter, of Newark, N. J., are visiting this place. Mr. Miller is a florist, and if he can secure a suitable property may locate here.

COMING EXHIBITIONS.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY will hold its exhibition of roses, strawberries and hardy flowers, in the Young Men's Lyceum, June 13. The seventh annual Chrysanthemum Show of the society will take place in Music Hall, November 1 to 3 inclusive. Copies of the schedules for both exhibits can be obtained from E. W. Neubrand, secretary.

FOR THE RETAIL FLORIST.

June Wedding Decorations. The House.

Wedding decorations in the house are of two classes—"home weddings" and "house receptions," the former usually being the most elaborate, and, in any case, the most important to the house decorator. It would require volumes to describe the innumerable designs suitable for each, and we must of necessity touch only a few generalities. The decorator who marches into a building, especially a residence, with a kit of tools and commences to hammer in big nails and destroy things, is not only ignorant, but a very great enemy to our trade. We know of one or two instances here in New York which resulted in law suits and a total prohibition of all except plants and cut flowers in the exclusive rooms. The florist is responsible in all cases, and the utmost care should be taken in regard to cleanliness and care of property. Cover the floors with sheets, and keep your materials as much as possible out of sight and way, for the majority of it looks better when arranged. Gummed parchment books, stout pins and small screw-eyes are sufficient to hold up the most extensive decorations. Nothing can make your customer more nervously disgusted than the sound of your hammering.

Sentiment and commercial floriculture may often

the main entrance, and where, in one place, we have the most of our blooms at the top, in the next we fill the vase with sprays, and the heaviest effect is at the bottom.

Fear of destruction compels the removal of costly vases. We always ask for their retention and use. There is nothing that will enhance the beauty of the flowers more than a handsome vase, be they in it or as a background to it; but a clumsy fist and a thousand dollar vase are seldom friends.

In these days of extreme endeavor in permanent interior decorations, the florist is called upon to show the highest intelligence. Your art is intended to beautify whatever other arts may be there, and suggestions or illustrations of this will be profitable to you. Here's a painting of flowers by De Longpre or some other master. Whatever the subject, you can procure living duplicates almost anywhere and at any time. Either in vase or natural cluster we arrange at one corner of the picture, and covering very little of the frame, some flowers similar to those portrayed, and instead of detracting from the painter's work, we make his and ours a commanding chef d'œuvre. If it be a landscape, then a few select wild flowers and foliage; if a Dutch subject, some mixed bulbs or the flowers beloved by or indigenous to that particular country, or whatever is depicted. It is under no circumstances permissible to cover the frame or in any way spoil the effect of a valuable painting, even by placing distracting colors close by; but above them all on the rod we may often arrange an irregular light frieze garland of greens or flowers.

it for a breakfast or luncheon decoration, or the same in nasturtiums—simple flowers, but how grand! The myriads of lovely flowers obtainable make selection difficult, except where there is a narrowness in space or price.

Next week we shall discuss schools and graduation flowers. KINVARA.

WEDDING DECORATIONS AT SYRACUSE, N. Y.—P. H. Quinlan & Co. had the decorations of the church and house for the wedding of Miss Charlotte Holden, of West Onondaga street, the past week. A very chaste and elaborate piece of work in the church reflected the skill of the decorator in no small degree, a number of new ideas being used in the main aisle and where the bridal party stood. The organ and pulpit platform were partially concealed with asparagus and palms, while the canopy was formed of asparagus attached to the chandelier above with a large shower of white baby ribbon. White peonies and white rose were used lavishly all over the background and canopy. A latticed screen and arch of asparagus and ferns, with clusters of white peonies, tied with chiffon, was erected across the rear of the auditorium, while tall palms closed the space in the balcony, giving the idea of a conservatory. Down the main aisle tall clusters of peonies and asparagus, tied with white bows and streamers, alternated every sixth seat with low clusters of white roses and ferns. The bride's bouquet was a shower of lily of the valley and gardenias.

The house was decorated throughout with asparagus, pink and American Beauty roses. The large centerpiece in the dining-room was entirely of lily of the valley.

The work was done under the supervision of Mr. Robertson, manager of the Quinlan establishment. J. B. B.

MARRIED.

DENNISON—GOULD.—At Ventura, Cal., on Monday afternoon, May 29, Miss Olive Gould was married to Heishel Dennison. The bride is the daughter of Mrs. Thomas Gould, the well-known petunia grower of this place. The floral decorations at the home of the bride, where the ceremony took place, were lavish and beautiful. In the back parlor the mantel was banked with palm branches and Easter lilies. In the north room asparagus and Easter lilies gave a fairy-like appearance. The culmination of artistic efforts were found in the front parlor. Here, in the bay window, was hung a heavy curtain of beautiful greenery banked with Easter lilies and ferns. Directly in front hung the wedding bell, of white carnations, with clapper of Easter lily. The bride carried a bouquet of white harebells. "After the ceremony," says a local report of the happy affair, "dainty refreshments were served on small tables in the north parlor. One very pretty little ceremony was the cutting of the bride's cake by the bride herself. The cake knife was tied with a bow of white ribbon which had graced the carriage of William McKinley when he visited Ventura.

"The bride, only daughter of Mr. and Mrs. Thomas Gould, comes of a historic New England family. She traces her ancestry to Governor William Bradford, of early colonist days, but she is known to Ventura as just the dear, sweet girl that she is. Her friends are many. It may be truly said, 'To know her was to love her.' The bridegroom, A. Hershel Dennison, is a son of Mr. and Mrs. H. J. Dennison, of the Ojai. He is one of those stanch, stalwart young men who are known for purity of character and loftiness of ideals.

"The happy couple left for an extended bridal tour. They took the 'Owl' at Saugus for the north, thence to Chicago, Cleveland and the Atlantic coast, returning in time to take in the Portland fair. Their future home is undecided.

"The gifts were many and costly. Among the list were several checks for a hundred dollars each. Of especial interest was a set of historic silver spoons, which had been in the family for generations. The three oldest bore the dates, respectively, 1785, 1823 and 1848. Each spoon carries its own little history. May the whole lives of these two be full of sweetness and joy."

A Plant Pathologist Wanted.

An examination will be held on June 28, by the Civil Service Commission to secure eligibles from which to make certification to fill a vacancy in the position of plant pathologist, at \$1,600 per annum, in the Bureau of Plant Industry, Department of Agriculture, and vacancies as they may occur in any branch of the service requiring similar qualifications. Applicants will not be required to appear at any place for examination. The position for which this examination is held requires a man of thorough training and experience in technical work relating to plant pathology, with special reference to rusts. The person appointed to this position must be in good health and willing to do considerable field investigation, as well as laboratory work. Age limit, twenty years or over on the date of the examination.

TOMATOES form the subject of Farmers' Bulletin No. 220, Department of Agriculture, prepared by Professor L. C. Corbett. Outdoor culture, north and south, forcing in greenhouses, the tomato as a field crop for canneries, diseases, etc., are all treated upon in a popular and interesting manner.



INTERIOR VIEW OF STORE OF CHAS. MONRO, NEW HAVEN, CONN.

disagree, but they can never be divorced, and as sentiment rules supreme over wedding decorations, it is of vast importance to find out the pet flowers of the parties concerned, and use them to best advantage. Many kinds of flowers and foliage permissible in church or hall decoration are out of place in the house, for the reason that they emit odors unpleasant when in close proximity and in a closely packed room; and remember, as is usually the case when a room is filled with standing people, the flowers in the fireplace or anywhere near the floor are not only lost, but a menace. To be sure, you must put some sort of finish on all groups, etc., but you need not waste your best there.

It is rarely that the decorations in the house are limited in color, but it is very often the case, and for the best, that each room is treated in one distinct color. Weddings being the ultra of festivities, a greater latitude is called for and extended in the way of profusion that is commensurate with art. Those mechanicalized curtains of smilax or asparagus, dotted with roses or other flowers, and parlor-window-like-tied-back-with-broad-ribbons, once upon a time were considered the very top of "high art"; now they appear silly, childish nonsense; for in their place we have an exact copy of Nature's handiwork, which is easily done by using a few green cords or wire, and tying to them our branches of roses, honeysuckle, sweet peas or whatever vine you may. Designs of studied regularity can never compare with the extreme beauty of that old rose-tree over the farmhouse porch, and how easy to reproduce it where one can forget the rigidities of the city!

At the side of that mirror we place a neutral colored vase, or jardiniere; into it put the end of one vine and carry it over but one side and the top of the frame. It is our idea by our work to insinuate that it is growing there in all its loveliness. Remember, the effect must come from the side opposite to

In the case of the "home wedding," a canopy is usually demanded, and where a reception is held, an arbor or some distinct arrangement; and while the all-devouring passion is for novelty, the same class of design will do for either reception or ceremony. You can suggest fifty different designs, and it is too frequently the case that he who proposes the use of the awful succeeds. Yet even in the case of extreme depravity of taste there is a chance to win out for the natural—the beautiful. The florist can seldom, if ever, dictate; but he can very often coax and lead. Almost anything can be used in some house decorations, for where there is a veranda, hanging baskets or suspended ferns are immense, and in hanging baskets, light petunias, primulas, geraniums, plox, verbenas or aught of that class can be used to advantage; even balls of moss, or soft vegetation studded with sprays or blooms look well. Purple is an outlawed color at weddings. Then, again, for mantle or groupings, the same sort of flowers are permissible, for if the one particularly special room is exclusively white or light pink and green, the others may range to the extreme. Carnations or roses do not grow on smilax, and it's not necessary to pretend they do.

The Breakfast Tables.

The wedding breakfast, or the general tables, deserve special treatment, and too often they are made top-heavy. With them, as with the house, we should restrain our inclination to cover up and hide everything; and 'tis often the case that the flowers themselves are smothered with unnecessary foliage. We do not wish to decry, but to encourage, and would ask for comparison between ten dollars' worth of flowers and twenty dollars worth of ribbons, irrespective of appropriateness. Suppose we use a thousand yellow or white pansies on one table. Just try

CLUB AND SOCIETY DOINGS

THE WASHINGTON (D. C.) FLORISTS' CLUB met on Tuesday night last with an excellent attendance for such a hot night, the temperature being in the eighties. Convention matters were chiefly discussed. The different chairmen of committees reported everything looking very promising, and every one seemed anxious to put their shoulders to the wheel.
M. C.

THE MILWAUKEE FLORISTS' CLUB gave a very enjoyable entertainment Tuesday evening at the Builders' Club. C. B. Whitnall delivered a lecture on California, illustrated by stereopticon. Refreshments and a dance followed. The Exposition Hall, where the S. A. F. Convention was held when it met here, was totally destroyed by fire Sunday afternoon.
C. C. P.

TARRYTOWN (N. Y.) HORTICULTURAL SOCIETY.—The May meeting of the above society, held Tuesday, the 30th, being the annual Ladies' Night, only necessary business was transacted. One honorary member and three new active members were elected, and two names proposed for membership. The occasion was graced by a large attendance of the fair sex. A good musical program was gone through, and refreshments, consisting of ice cream, cake, etc., were served. All agreed that it was a very enjoyable evening. The exhibits consisted mostly of flowers cut from hardy shrubs and herbaceous plants.

The June show of roses, strawberries, hardy flowers, etc., will be held in the Young Men's Lyceum, on the afternoon and evening of June 13. Schedules for this, and also for the November exhibition, may be had from the secretary, E. W. Neubrand.
WM. SCOTT.

PHILADELPHIA (PA.) FLORISTS' CLUB.—The meeting on Tuesday last was a very interesting one. Some consideration was given to matters pertaining to the S. A. F. O. H. convention, and a committee was appointed, with Robert Craig as chairman, to arrange for the entertainment of all delegates who may pass through this city on their way to Washington in August. The present desire is to have all delegates arrange their trip so that they can stop off here two or three hours, and be the guests of our club at Horticultural Hall, then proceed to Washington in a body. The delegates will be well fortified with good viands, supplied by that king of caterers, John Westcott. The famous punch is included in all menus here. The club meeting in July will be held on the second Tuesday, the first being the Fourth.
Alfred Dimmock was a visitor here on Wednesday.
DAVID RUST.

MONMOUTH COUNTY (N. J.) HORTICULTURAL SOCIETY.—The regular meeting of this society was held June 2, President Hale in the chair. Final arrangements were made for the rose exhibition at the next meeting, June 16. A discussion took place on "Bonora," and the general opinion was that it is wonderfully quick-acting, more particularly on soft-growing plants and ferns. Mr. Kettel stated that he had used it on young grass with gratifying results. Mr. Turner experimented with it on a small scale on some half-starved ferns. The improvement was plainly shown after the first application. Mr. Butterbach had used "Bonora" on antirrhinums and cauliflowers under glass with excellent results; also on different ferns and small palms, and after one application they were much improved. In order to make our meetings more interesting, Mr. Turner suggested that at each one some exhibits be shown, and to have discussions concerning their nature and merits. A fine pair of cucumbers were exhibited by Mr. Hale, scoring 85 points. The judges were Wm. Turner and H. Griffiths. B.

THE NEW JERSEY FLORICULTURAL SOCIETY.—Ladies' night was observed by the New Jersey Floricultural Society on June 2 at its rooms in Orange, and attracted a large attendance of members and their families, with numerous visitors. In addition to a meritorious floral display were added a musical and dramatic entertainment and refreshments. Photographs of the exhibits receiving the highest marks for the last five months covered one side of the room. The exhibits for the evening consisted of *Cattleyas Mendelii*, *Mossia* and *gigas*, with *Cologyne Dayana*, from the collection of Mr. Henry Graves, grown by Edwin Thomas; *Phalenopsis grandiflora*, *Laelia elegans*, *Cyp. Lawrenceanum* and *Cattleyas gigas* and *Mossia* from the collection of Mr. William Barr, grown by Arthur Bodwell, and a collection of cut orchid blooms from Julius Roehrs, including white *C. Mossia*, *Reineckiana*, *Den. atroviolaceum*, hybrid *Laelia purpurata*, illustrating beautifully the value of these flowers in decoration. Two vases of enormous *Papaver orientalis* from Brighthurst, grown by Peter Duff; *gloxinias* in variety from Mr. William Runkle, grown by D. Kindsgrab; a vase of mixed *aquilegia* in light tints, very much admired, and *pyrethum*, many with *anemone*

centers, from the Colgates, grown by William Reid. Peonies from Mr. Stewart Hartshorne, grown by A. Caparn; *papavers* and Japanese iris from Mr. George Merck, of Llewellyn Park, grown by Max Schneider; *Pandanus Vetchii* and *Rhapis humilis*, by D. Kindsgrab, Arthur Bodwell's *Nicotiana Sanderae* were the first shown in this vicinity. The judges were Jos. A. Manda, Arthur Caparn and James Goodyear.
JOS. B. DAVIS.

PITTSBURG (PA.) FLORISTS' CLUB.—A hot, sultry night and heavy rain resulted in a poor attendance at the June meeting of the Florists' Club, which was an interesting one, with a good exhibition of cut blooms of hardy roses and other outdoor stock. H. A. Dreer, Philadelphia, sent a nice lot of blooms of many hardy plants, among them a collection of hardy pinks which were much thought of. The Pittsburg park, as usual, made a fine display of peonies, roses, digitals, *campanulas*, *pyrethrum*, *delphinium*, *dianthus*, *Dianthus barbatus*, *hemerocallis*, *penstemons*, iris, and other things. Fred Burki brought in a fine lot of peonies, and spoke of their uses, cultivation, etc. Several other lots of assorted blooms were shown, in which a large flowering clematis was very conspicuous, said to be a very free bloomer of the *Jackmannii* type. We could not ascertain its name. Thos. Fitzgerald, of Beaver, Pa., showed blooms of a new variety of carnation, a cross between *Prosperity* and *America*, a fine white, good stiff stem and perfect bloom.

Communications were read from Messrs. J. C. Vaughan and W. J. Stewart, president and secretary of the S. A. F. O. H., in regard to transportation and other matters connected with the coming convention. A committee of three on transportation was appointed: F. Burki, J. Bader, and E. C. Reineman, who will arrange as to rates, entertainment of visitors, etc. It is very likely that a good delegation will go from our city. The railroad rate will be about \$8 for the round trip, giving ample time. It was decided to drop the next meeting of the club in July, and instead have an outing. The following committee was named to make arrangements for same: Messrs. Blind, Burki, and Bader, who will decide as to place, time, etc.
E. C. R.

The Uses of Hardy Shrubs for Forcing.

(Read by Edwin Matthews, of Thos. Meehan & Sons, before the Philadelphia Florists' Club, June 6, 1905.)

Hardy shrubs used under glass have for many years brought color and fragrance to us in the very depth of winter, but, perhaps, it is only in recent years that they have been resorted to so largely and used with so good effect as at the present time. If I may be allowed to recall reminiscences, I would like to take you in imagination to the great Spring Show of the Royal Horticultural Society of England held annually in the Temple Garden, which is situated on the Thames Embankment. Refreshing indeed is the memory of the many beautiful groups of forced and Spring flowering trees and shrubs, staged and grouped to good advantage by the leading nurserymen. Here one would come upon a large group of the different kinds representing the genus *pyrus* and *prunus*; there, a display of standard *wistarias*, their racemes of white and purple hanging in rich profusion. Again, one would be attracted to a large display of the many hybrid clematises in their varied colors, while groups of *spiraea*, *deutzias*, *viburnums*, *philadelphus*, *azaleas*, *rhododendrons*, and many others of the *ericaceous* section, would compel admiration and attention from all. Undoubtedly this show, together with the fortnightly displays of this society, have been responsible for much of their present popularity in England. Large numbers are now grown by the trade for flowering under glass, and there is a considerable trade in them between that country and Holland, as there is also large importations to this country, I believe, from the latter place, especially in *ericaceous* plants.

General Culture.

So many shrub families are available and adapted for gentle forcing into bloom before their usual time, that it is unwise, I think, to lay down hard and fast rules with regard to culture. It depends largely on the kind of plant you handle and the kind of roots the plants possess. Those which make dense fibrous masses of roots can be lifted from the open ground in autumn, potted, and will scarcely feel the check of removal. Some shrubs, however, transplant so badly that it is better and really needful to grow them entirely in pots or tubs. *Azaleas* may be taken as the type of the former; *magnolias* of the latter. Some cultivators prefer to grow a great many of their forcing plants permanently in pots, plunging them out during the summer in a good open position, and giving them special attention in the way of watering, feeding, etc. This may be regarded as a modification of pot culture and planting out. Although a few roots are passed out over the rim, and also through the hole in the bottom of the pot, this treatment has the effect of keeping the plants somewhat compact, while the check of removal when taken up is not nearly so great as would be the case had they unlimited root-room. This partial confinement also tends to promote bud

formation. In any case, where shrubs are grown for this purpose, whether confined to pots or planted in the field, they should be afforded a position where air and sunshine can freely reach them, strictly avoiding overcrowding, as this tends to leaves instead of flowers, while they should never be allowed to suffer through drought. The returns for careful and liberal treatment at this juncture will be seen at flowering time.

If the plants are being grown in the open ground—that is to say, not confined to pots—the best time to lift them, with few exceptions, is as soon as possible after the leaves have fallen in autumn. When done at this time the young roots have a chance to recover from the check and get a hold on the new soil before flowering time. The advantage gained by early potting is clearly shown in the case of *azaleas*. The flowers of those early potted remain nearly twice as long in beauty as those produced by plants not potted till late. After potting they should be plunged in ashes, or any other material, to keep them in an even condition of moisture until taken inside. Whether the plants be wanted for early forcing or later, it is best to place them, first, only in a cool temperature, submitting them to greater heat by degrees. The lower the temperature, however (say, from 55 to 60 degrees), the more beautiful the flower coloring; while if they are only required to bloom a little in advance of their natural season, more protection from frosts is only necessary.

The cultural requirements during the forcing period are simple, and may be summed up in the following items, namely: a humid atmosphere, yet not a stuffy one for air must be admitted when the conditions outside warrant it; copious supplies of water to the roots, and frequent spraying overhead. The higher the temperature the more moisture will the plants require, and vice-versa; while a cooler and dryer atmosphere should be given them as soon as they come into flower, as the chief object at this point is to prolong as much as possible their flowering period.

After Treatment.

Generally speaking, those plants which have been forced hard to get them into bloom early cannot be depended on to give satisfactory results the second year, no matter how carefully they may have been treated. These, however, which have been only gently forced will undergo the same ordeal the following season, providing they are treated well. Too often when the flowers are over, the plants are thrust away in some corner, and their existence forgotten, the result being injured leaves and general dilapidation. Now, plants that have been forced in any degree are invalid, and should be treated as such. Shrubs that have finished blooming under glass before the time of frost and cold winds is over, should be carefully protected and gradually hardened off before committing them outside; while those things which are grown in pots permanently would be greatly benefited by occasional doses of liquid manure during their growing season.

Their Use to the Florist.

The florist who, while winter still lingers, displays in his store some few bright colors in the forced shrub line acts wisely, I think, for this, as other things, such as fruit and vegetables out of season, appeals to many people in a most fascinating way and especially to those who can well afford to be a little prodigal in this direction; and this, of course, should be fostered by all means.

Without in any way disparaging the two present favorites—the rose and carnation—which certainly have the hearts of the people, I cannot help but think that there should be more variety; for is there not some truth in the old proverbial saying, "variety is the spice of life?" Let us then give variety.

The large list of shrubs adaptable for forcing must, of course, be greatly minimized for the florist, as many of them, though beautiful and useful in some capacities, would not bring the best returns for the labor bestowed on them. The following are some of the best for furnishing material for the florist; *Azaleas*, both the mollis and those known as the Ghent *azaleas*, are among the most useful classes of shrubs that we have, and quite as valuable for hard forcing as for flowering later. Although the formation of the roots is dense and wig-like, they are, as already stated, all the better for being potted early. Especially is this so if they are wanted for early forcing. Among the most beautiful in the mollis section are *Alphonse Lavalle*, bright orange; *Anthony Koster*, deep yellow; *Hugo Koster*, salmon red, and *J. J. de Vink*, soft rose. The seed pods should be removed directly after flowering, as these are a drain on the plants' strength.

Rhododendrons are among the most gorgeous of shrubs, and, owing to the root formation, are most suitable for being flowered in pots or tubs. Going by the stock imported from Europe, they flower when quite small, plants not more than one and a half feet high bearing half a dozen large trusses of flowers, while the wide range of coloring in the *rhododendron* family affords opportunity for getting almost any shade desired. Hard forcing for the *rhododendron* must be avoided. Liberal supplies of water overhead are essential, when it is remembered that moist conditions are their natural requirements.

(To be Continued.)

ASTER PLANTS Queen of the Mar... Bot. Semple's Branching, fine plants, 40 cts. per 100; 800 for \$1.00; \$2.50 per 1000. J. C. SCHMIDT CO., Bristol, Pa. Mention the Florists' Exchange when writing.

GERANIUMS

S. A. Nutt, 3 in. pots, \$4.00 per 100; \$35.00 per 1000. 2 1/2 in., \$2.00 per 100; \$20.00 per 1000.

PETER BROWN Lancaster, Pa. Mention the Florists' Exchange when writing.

BEDDING PLANTS

Per 100 1000 Salvia, 2 1/2 in., \$2.50 \$20.00 Heliotrope, 2 1/2 in., 2.50 20.00 " 4 in. in bloom, 7.00 60.00 Single Petunias, 2 1/2 in., 2.00 18.00 Tuberos Begonias, extra fine plants from 4 in. pots, \$10.00 per 100.

Larchmont Nurseries LARCHMONT, N. Y. Mention the Florists' Exchange when writing.

ASTERS Pot Crown

Giant Parity, Hohenzollern, Cream and dark blue, Semple's white, pink and purple, 2 in. pots \$1.00 \$9.00 Aster, from seed bed, by mail .40 2.50 Parity, Semple, 3 colors, Hohenzollern, 3 colors; Truffaut, 3 colors; Victoria, 3 colors. Moonvine, 2 in., 2 50 Cobaea Scandens, 2 in., 2 50 Dracena Indivisa, 3 and 4 in., 18 to 18 in., \$4.00 and 6 00 Asparagus Sprenger, 2 in., 2 50 Salvia, dwarf and tall, 2 in., 2 00 Cosmos, early dwarf and giant-flowering, 2 in., 1 00 Zinnias, finest double, 2 in., 1 00 Nicotiana Sanders, 2 in., 75c. per doz. CASH with order, please.

GEORGE J. HUGHES, Berlin, N. J. Mention the Florists' Exchange when writing.

SMILAX Per 100 Fine Plants, 2 1/2 in. pots, \$1.25 Seedling Petunias, 2 1/2 in. pots, 2.50 Parity Seed, July, 4.00 Oz. 4.00 CASH or C. O. D.

JOSEPH H. CUNNINGHAM, Delaware, Ohio Mention the Florists' Exchange when writing.

SMILAX SPRENGERI

Well grown carefully packed plants in any quantity. \$1.50 per 100; \$12.50 per 1000 \$2.00 per 100; \$15.00 per 1000

150,000 TO SELECT YOUR ORDER FROM Plumosus-Deflexus-Decumbens-Pansies-Geraniums SEND FOR SUMMER PRICE LIST ALBERT M. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

TELEGRAPH

Will be the Most Popular Geranium and Leading Standard Next Season EVERY Florist growing bedding stock, or Christmas pot plants, should have Telegraph in stock. Its color (brilliant scarlet corise), large truss and profuse blooming qualities, make it a desirable Christmas pot plant. Acknowledged the best all-around geranium on the market.

Extra strong plants, ready to plant out, \$8.00 per 100, while present stock lasts. CASH WITH ORDER, PLEASE

THOMAS DEVOY & SON, Poughkeepsie, N.Y. Mention The Florists' Exchange when writing.

INBUD AND BLOOM

Geraniums, mixed, good varieties, 3 1/2 in. pots, \$5.00 per 100. Heliotrope, Obfektain, 3 1/2 in. pots, \$5.00 per 100. Verbenas, 3 in. pots, \$2.50 per 100. Petunias, single large flowering, 3 in. pots, \$2.50 per 100. Ageratum, dwarf blue, 2 1/2 in., \$2.00 per 100. Salvia Splendens, 2 1/2 in. pots, \$2.00 per 100. Cobaea Scandens, 3 in. pots, \$2.50 per 100. Thunbergia, mixed, 2 1/2 in. pots, \$2.00 per 100. Heliotrope, 2 vars., 2 1/2 in. pots, \$2.00 per 100. Vinca Variegata, 2 1/2 in. pots, \$2.00 per 100. Rose, Crimson Rambler, fine, 2 1/2 in. pots, \$4.00 per 100. Cash with order.

WM. J. CHINNICK, Trenton, N. J. Mention the Florists' Exchange when writing.

SEASONABLE STOCK

Per 100 Ageratum, 2 vars., 2 1/2 in. pots, \$2.50 Alternanthera, 2 1/2 in. pots, 2 50 Coleus, 2 1/2 in. pots, 2 50 Cuphea (Cigar Plant), 2 1/2 in. pots, 2 50 3 1/2 in. pots, 4 00 Dracena Indivisa, 4 in. pots, 18 00 " " 5 " 25 00 " " 7 " 35 00 German Ivy, 2 1/2 in. pots, 3 00 " 3 1/2 in. pots, 6 00 Greivillea Robusta, 4 in. pots, 7 00 Marguerites, yellow, 4 in., 1 00 Marigolds, 1 00 Mesembryanthemums, 4 in. pots, 6 00 Mignonette, 4 in., 1 25 Pansies, extra fine, 1 25 Petunias, single, 2 1/2 in. pots, 2 50 Rose and Scented Geraniums, 4 in., 6 00

S. S. PECKHAM, New Bedford, Mass. Mention the Florists' Exchange when writing.

Bargains in Plants For Vases and Baskets

CAREX JAPONICA VARIEGATA. A most useful grass for filling. 2 1/2 in. pots, \$2.50 per 100. COBEA SCANDENS. From 3 in. pots, staked, \$3.00 per 100. CYPERUS ALTERNIFOLIUS (Umbrella Plant). Excellent stock from 2 1/2 in. pots, \$2.00 per 100; \$16.00 per 1000. GLECHOMA VARIEGATA. A healthy lot of this most useful vine in 2 1/2 in. pots, \$2.50 per 100. LOBELIA GRACILIS (Trailing.) Strong, bushy plants, from 2 1/2 in. pots, in bloom, \$2.00 per 100. OTHONNA CRASSIFOLIA. An indispensable vine for filling. Extra strong, from 2 1/2 in. pots, \$2.00 per 100.

NATHAN SMITH & SON ADRIAN, MICH. Mention the Florists' Exchange when writing.

ASPARAGUS Per 100 Plumosus Nanus, 2 1/2 in. pots, \$2.00 Sprenger, 2 1/2 in. pot, 2 00 Primrosea, Chinese Obconica and Forbesii, July 10, 2 00

Milwaukee.

Trade News. Memorial Day trade was better than in any previous year. Everything was cleaned up, but the demand for carnations in preference to other stock was surprising; they averaged up in price better than the general run of roses. Many heavy orders came in calling for carnations exclusively. With this exception there was about enough stock in all lines to meet the demand, and prices in general were satisfactory. The retailers had their troubles, for 50c. per dozen signs were numerous up to a few days previous to Memorial Day, when the price of carnations jumped to 50c. and 60c. Many purchasers complained of being held up.

The plant trade was very satisfactory. The unfavorable weather earlier in the month caused a heavy rush of business up to the last moment. Much of the plant trade is, however, diverting to the grocerymen, who get large supplies in nearly all varieties of plants from the market gardeners. Even the commission men handling garden truck were soliciting consignments of plants from all available sources. Geraniums are still the most popular of all bedding plants, and the supply of good blooming stock was soon exhausted. The call for varieties of the S. A. Nutt type is away ahead of all others. Vincas, coleus and salvias follow next in order; although the latter were more plentiful than last year, the call was not as large. Lily of the valley, tulips and lilac came in just at the right time, but peonies were retarded on account of the cool nights, and are about a week late. C. C. P.

Kalamazoo, Mich.

News Items. Mr. Meyers has taken possession of John Calder's place, and Mr. Calder retires to a fruit farm a short distance from the city.

Van Bochove & Bro. are busy planting roses in their new range of houses on Portage street. The firm has built a very fine block of houses and expects to be in a position to handle a large cut next season.

Miss Laura Dunkley will continue the business of the Dunkley Floral Co., having been appointed administratrix of the estate.

W. Cook is busily engaged laying out an estate on the outskirts of the city which calls for considerable skill, it being one of the finest residences in this part of the State.

The Central Nursery Co. is still busy removing its plant, but will soon have a part ready to plant roses. The new location is said to be a most desirable one for a greenhouse plant. The offices of the company are already moved to the same place. The store downtown will be run as usual, on Main street. S. B.

SEE BEFORE YOU PAY

Stock will be sent C. O. D. if so ordered. COLEUS TO PLANT AT ONCE AT A BIG PROFIT

Fine bushy plants, from soil, heavy rooted; Verschaffeltii, Golden Bedder, Giant, 75c. Are finest grown, all very bright, 65c. per 100. Very extra heavy, fancy, \$1.30 per 100.

ALTERNANTHERA Bushy plants, red and yellow, 75c. per 100.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

\$1.50 Per 100

All Fine 2 in. Stock Rooted Cuttings 2 in. Plants Some in Bloom per 100 per 100 Ageratum, Pauline, Gurney, \$0.50 \$1.50 Salvia, Silverspot, .90 1.50 Salvia, Splendens, Bonfire, .90 Petunia, double, 10 finest, .75 1.50 Fuchsias, 5 kinds, in bud and bloom .75 1.50 Hardy Pinks, 5 sorts .75 1.50 Feverfew Gem, Paris Daisy, .50 1.50 Alternanthera, red and yellow .50 1.50 Stevia Serrata and Variegata, .75 1.50 Coleus, 12 best bedders, 1000, \$4.00 .60 1.50 Golden Feverfew, Dusty Miller, 1.50 Abutilon, Golden Bells, 1.50 Smilax Seedlings, .30

Dble. Daisy, Snowball, Longfellow, wintered over, in bud and bloom, 1000 for \$2.50. Vinca Variegata, R. C. 90c. per 100. Asters, Semple's, white, pink, lavender, purple, crimson, \$3.00 per 1000. Fine stock. Geraniums, nice 2 1/2 in. stock, 2 cts. Roses, Ivory, Golden Gate, 2 in., \$2.00 per 100. Cash. Direct all orders plainly to

BYER BROS., Chambersburg, Pa. Mention the Florists' Exchange when writing.

SPHAGNUM MOSS Fresh and clean, shipment direct from the swamp; 5-barrel bale, \$1.25; 3 bales, \$3.25; 5 bales, 5.00. Packing moss, 10 bales, \$7.50. Cash with order.

H. R. AKERS, Chatsworth, N. J. Mention The Florists' Exchange when writing.

SPHAGNUM MOSS

\$1.50 per 8-bbl. bale; in burlap, \$2.00.

PEAT

\$1.00 per 1-bbl. bag. F. O. B., New York City. Cash with all orders. Pier 34 N. R. E. R. BAKER, NEW YORK CITY Mention The Florists' Exchange when writing.

STANDARD FLOWER POTS

Packed in small crates, easy to handle. Price per crate Price per crate 1500 2 in. pots in crate, \$4.88 100 7 in. pots in crate, \$4.28 1500 2 1/2 " " " 6.25 60 6 " " " 8.00 HAND MADE. 1000 8 " " " 5.00 48 9 in. pots in crate, \$4.28 800 3 1/2 " " " 5.50 24 12 " " " 5.00 500 4 " " " 4.50 24 12 " " " 4.00 320 5 " " " 4.51 12 14 " " " 4.28 144 6 " " " 3.16 6 16 " " " 4.50

Seed pans, same price as pots. Send for prices list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

HILFINGER BROS., Pottery, Fort Edward, N. Y. August Holker & Sons, Agts. 81 Barclay St., N. Y. City Mention the Florists' Exchange when writing.

MODEL EXTENSION Carnation Supports

ALSO Wire Rose Stakes and Tying Wire 160E BROS., 226 North 9th St. Brooklyn, N. Y. Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

BEST COMMERCIAL VARIETIES Per 100 Strong Plants, 2 1/2 in., \$2 00 Vinca Var., R. C., \$1.00; 2 1/2 in., 2 50 Violet, Princess Wales, R. C., 2 00 Carnation, R. C., \$1.50 to 3 00 Write for List at once.

SMITH & GANNETT, Geneva, N. Y. Mention The Florists' Exchange when writing.

POINSETTIAS

Fine stocky plants, July and August delivery, 2 1/2 in., \$4.00 per 100; 3 in., \$8.00 per 100. Cash or satisfactory references.

BAUR FLORAL CO., Erie, Pa. Mention the Florists' Exchange when writing.

VERBENA

Mammoth, 2 in., \$1.50 per 100. Per 100 Scarlet Sage, 2 in., \$2.00 Doubled Fringed Petunias, 2 in., 2 00 Vinca Variegata, 2 in., 2 00 Greivillea Robusta, 2 in., 2 00 Cosmos and Aster Seedlings, 50c. per 100 Cryptomeria Japonica, (extra fine) 2 in., \$3.00 per 100.

E. I. RAWLINGS, QUAKERTOWN, Pa. Mention the Florists' Exchange when writing.

COLEUS

Verschaffeltii, Golden Bedder and others, 2 in. pots, \$1.50 per 100; \$15.00 per 1000. Ageratum, Stella Gurney, 2 in., \$1.50 per 100. Salvia, 2 in. and 2 1/2 in., \$2.00 and \$3.00 per 100. Alternantheras, P. Major and A. Nana, 2 in., \$1.50 per 100; \$15.00 per 1000. Geranium, S. A. Nutt, 2 in., \$2.50 per 100; 3 in., \$3.50 per 100. Pansies, in bloom, 75c. per 100; \$5.00 per 1000. Cash with order.

ERNEST HARRIS, Delanson, N. Y. Mention The Florists' Exchange when writing.

CYCLAMEN

Splendens Giganteum Hybrids Finest strain in the world, in five true colors, extra well-grown plants, from 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. CYCLAMEN Giganteum Fimbriatum (the new fringed variety), from 2 1/2 in. pots, \$6.00 per 100; from 3 in. pots, \$3.00 per 100. ASPARAGUS PLUMOSUS NANUS, well-grown stock, from 2 1/2 in. pots, \$5.00; from 3 in. pots, \$5.00 per 100. Satisfaction Guaranteed

PAUL MADER, East Stroudsburg, Pa. Mention the Florists' Exchange when writing.

FOR SALE, CHEAP

2300 Mired Cannas, fine stock, 3/4 and 4 in. \$1.00 per 100; \$3.00 per 1000. German Ivy, 2 to 3 ft. long, fine. \$2.00. Salvia, in bloom, fine. 2.00. Ageratum, in bloom. 2.00. Coleus. 2.00. Lobelia, trailing, in bloom, fine. 2.00. All the finest stock obtainable. Cash with order, please.

Sunnyside Greenhouses DOVER, N. J. Mention the Florists' Exchange when writing.

GERANIUMS 4 in. pots, \$3.00 per 100. Salvia Splendens and Bonfire, 3 1/2 in. pots, \$4.00; 2 1/2 in. pots, \$2.00 per 100. Centaurea Candidissima, 2 1/2 in. pots, \$3.00 per 100. Achyras, 2 1/2 in. pots, \$3.00 per 100. Primula variegata, strong clumps, \$8.00 per 100. Funkia variegata, 3 to 4 pipe to clump, \$5.00 per 100. Blue Hydrangeas, from 6 in. pots to 12 in. tubs for summer flowering. Prices on application. English Ivy, 5 to 6 ft. 4 1/2 in. pots \$15.00, 4 ft. 4 in. pots, \$12.00, 2 and 3 ft. 2 1/2 in. pots, \$3.00 per 100. JOHN RECK & SON, Bridgeport, Conn. Mention the Florists' Exchange when writing.

CLOSING OUT—Bargains

Salvia, fine. \$1.00 per 100. Acanthaceae, 2 in. pots, 1.50 per 100. Ageratum, Blue perfection. 1.50 per 100. Oobaea Scandens, 3 in. 50c. per doz. Dracena Indivisa, 4 in. \$1.00 per doz. Robusta Cannas, 9 and 4 in. 8.00 per 100.

ORDER QUICK. CASH PLEASE. WILLIAM KEIR, Pikesville, Md. Mention the Florists' Exchange when writing.

1500 ENGLISH IVY

4-inch pots, 3 ft., bushy, \$12.00 per 100.

CHAS. LENKER, Freeport, L. I., N.Y. Mention The Florists' Exchange when writing.

MAMMOTH VERBENAS

from 2 1/2-in. pots, in bud and bloom, \$1.00 per 100; 500 for \$3.50.

Star Petunia, 3 in., \$2.00 per 100. Asparagus Sprengerii, 2 1/2 in., \$3.00 per 100. Plumosa, 3 in. pots, \$5.00 per 100. Aster, Daybreak and Purity, 50 cts. per 100; Invincible, 40 cts. per 100.

J.S. BLOOM, Riegelsville, Pa. Mention the Florists' Exchange when writing.

PANSIES THE JENNINGS STRAIN.

Fine stock, choice colors. Cold frame plants in bud and bloom, ready March 20. Price \$1.50 per 100. No less in quantity. By express only. Cash with order.

E. B. JENNINGS, Lock Box Southport, Conn. 254. Grower of the Finest Pansies. Mention the Florists' Exchange when writing.

ARNOTT'S COMPLETE SOLUBLE PLANT FOOD

The only perfect substitute for, and away ahead of, liquid manure. Clean to handle. Odorless. Same to each case mailed free, 25c. Used by florists all over the World. THE ARNOTT CHEMICAL CO. 114 Victoria Street, TORONTO, Canada. Mention The Florists' Exchange when writing.

GERANIUMS

Double Gen. Grant, \$7.00 per 100. S. A. Nutt, \$7.00 per 100.

HELIOTROPE, \$7.00 per 100. PHLOX, Mammoth, \$3.00 per 100. COLEUS, 10 vars., mixed, \$2.50 per 100.

GEO. A. BEETZ, Woodlawn, New York City 233d Street and Napier Avenue. Mention The Florists' Exchange when writing.

BEDDING PLANTS

Geraniums, scarlet and pink varieties, the newest and best bedders, 4 in. pots, in bud, and bloom, \$8.00 per 100. Salvia, Bonfire and Splendens, strong, transplanted, \$1.00 per 100. Sweet Alyssum, nice bushy plants, in bloom, \$1.00 per 100. Marie Louise Violets, plants, February and March struck, clean and free from disease, ready June 15, \$15.00 per 1000. Orders booked now. CASH WITH ORDER.

CHRISTIAN LAWRIETZ, Box 262, Rhinebeck-on-Hudson, N. Y. Mention the Florists' Exchange when writing.

St. Louis.

News Notes. The Missouri Botanical Garden, better known the world over as Shaw's Garden, had its first Sunday opening of the year June 4. Nearly 15,000 persons took advantage of the beautiful day, and looked over all of the available spots in the Garden. Professor William Trelease is attending the International Botanical Congress at Vienna, also visiting all the principal botanical gardens in Europe, and in his absence Superintendent H. C. Irish is in charge; he and a number of students and employees of the Garden attended to all the wants of the visitors. The Garden as a whole never looked better than on Sunday last. After seeing the sights at the Garden many of the visitors strolled over to Tower Grove Park, where a large band of music was in attendance. That grand old man, James Gurney, is in charge of this park.

Harry Balsley, Detroit, paid us his annual visit. Harry never fails to take away the best wishes of his many friends in the trade. Martin Reukauf, of H. Bayersdorfer & Company, Philadelphia, was also a recent visitor. He is whooping up the S. A. F. O. H. convention.

A number of local nurserymen will attend the annual convention of the American Association of Nurserymen, which occurs next Wednesday and Thursday at West Baden Springs, Ind. Quite a few seedsmen contemplate attending the convention of the American Seed Trade at Alexandria Bay, N. Y., this month.

Frank M. Ellis, one of our wholesalers, had the honor of being elected vice-president of the American Chocolate and Banana Culture Company, which have large plantations in Panama.

John Connon, of Webster Groves, Mo., will build two new houses this Summer for roses and carnations. Mr. Thompson has the contract.

The bowling club will make arrangements on Monday night to make their long-delayed visit to De Soto to roll a friendly game with Florist Hippard's team at that place. Ed Gerlach, at Kuehn's, has charge of the affair.

Miss Schnell, who does business in East St. Louis, reports that since moving to her new location her trade has doubled. Decoration Day business was better than ever before.

Bowling. Harry Balsley and six local bowlers spent a very pleasant evening on Monday at the bowling alleys. Harry, with his fancy screw ball, had the boys going in some of the games, but the surprise of the evening was a 93 game made by our best bowler, Charlie Kuehn. Beneke, in the same game, made 114, and Carl Beyer 104. The night was very hot, and from now on the boys will only bowl on cool nights. From the looks of things now the convention team will be made up as follows: Beneke, Kuehn, Meinhardt, Weber, Miller, and Ellis. The totals in the six games referred to were: Beneke, 848; Kuehn, 815; Beyer, 736; Gerlach, 609; Meinhardt, 537; Lorenz, 324, and Balsley, 621. ST. PATRICK.

Cyclamen Plants Seed of only selected flowers and well built stock. None better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000. C. WINTERICH, DEFIANCE, OHIO. Mention the Florists' Exchange when writing.

GERANIUMS In Bud and Bloom

S. A. Nutt, Beute Poitevine, La Favorite, Bruntz, R. Brett, several other varieties, \$5.00 per 100; \$50.00 per 1000. Fuchsias, in bloom, 4 in. pots, \$8.00 per 100. Heliotrope, in bloom, \$5.00 per 100. Salvia, in variety, \$5.00 per 100. Cannas, Queen Charlotte, green leaved, and Robusta, red leaved, \$8.00 per 100. English Ivy, 3 in. pots, \$3.00 per 100. Feverfew, 2 1/2 in. pots, \$2.50 per 100; 4 in. stock, \$4.00 per 100. Blue Lobelia, 2 1/2 in. pots, \$2.50 per 100. Double Petunias, 4 in. pots, \$8.00 per 100. Hydrangeas, 4 in. pots, \$8.00 per 100. Coleus, rooted cuttings, Golden Bedder and Verschaffeltii, 90c. per 100; \$5.00 per 1000; 2 1/2 in. pots, \$2.00 per 100. At above prices the selection to remain with us. Cash must accompany the order. J. E. FELTHOUSEN, Schoenotady, N. Y. Mention The Florists' Exchange when writing.

Vegetable, Greenhouse and Bedding Plants

VEGETABLE PLANTS

CABBAGE in any quantity. Winingstadt, Early All-Head, Sure-Head, Succession, Early and Late Flat Dutch, Hollander, etc. \$1.00 per 1000; \$8.50 per 10,000.

PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.

CELERY Golden Self Blanching, White Plume, Golden Heart, and other varieties. Small plants for transplanting, 75 cts. per 1000, 5000 (not less) and over, at 50 cts. per 1000.

TOMATOES Earliana, Oalk's Early Jewell, Dwarf Stone, Dwarf Champion, etc. 30 cts. per 100; \$2.00 per 1000. Acome, Beauty, Stone, Perfection, etc., 25 cts. per 100; \$1.00 per 1000.

PEPPERS Bull Nose, Sweet Mountain, Ruby King, 25c. per 100; \$2.00 per 1000.

Miscellaneous Plants

2 1/2-in. stock in Al condition. Per 100 1000. Ageratum, Stella Gurney..... 40c. per doz.; \$2.00 \$17.50. Alternanthera, yellow and red..... 2.00 15.00. Alyssum, Giant Double..... 40c. per doz.; 2.00 17.50. Aquilegia (Columbine), single mix'd 3.00. Carnations, Marguerite..... 1.50 12.50. Centaurea gymnocarpa..... 1.50. Coleus, in good variety..... 2.00 15.00. Dahlia plants, in var..... 2.00. Digitalis (Fox glove), fine mixed, 1.50 12.50.

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List.

Our Collection of HARDY POMPON CHRYSANTHEMUMS is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different shows.

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

Mention The Florists' Exchange when writing.

CANNAS Henderson's, Queen Charlotte, F. Vaughan, Austria, 4-in. pots, \$5.00 per 100. GERANIUMS, 4-in. pots, \$5.00 per 100. J. C. SCHMIDT CO., Bristol, Pa. Mention The Florists' Exchange when writing.

SURPLUS STOCK

Of Well-Grown Plants

2500 GERANIUMS, dark red and scarlet Bronze and Silver Leaf, Mme. Sallerol. 500 CANNAS, mixed. ROSE GERANIUMS, SALVIA, COLEUS, HELIOTROPES, FUCHSIAS, LEMON VERBENAS, PHLOX DRUMMONDI, from 4 inch, \$5.00 per 100. AGERATUM, blue, LOBELIA, 3 in., \$3.00 per 100. CALADIUM ESCULENTUM, 4 in., 6c.; 5 in., 10c. CENTAUREA GYMNOCARPA, 2 in., 24c. ZINNIA, 2 in., 2c. PARROT TREE CARNATIONS, 2 in., 2c. ASPARAGUS PLENIORIS, 4 in., bushy, 10c. ASPARAGUS PLUMOSUS, 2 in., 8c. PELARGONIUMS, 5 and 6 in., 15c. and 20c.

CHARLES L. STANLEY, Plainfield, N. J. Mention the Florists' Exchange when writing.

Surplus Bedding Stock

IN BUD AND BLOOM

Ivy Geranium, 3 in., \$3.00; 4 in., \$3.00 per 100. Ageratum Stella Gurney, 3 in., \$3.50 per 100. Lantana, 3 in., \$8.00 per 100. Heliotrope, 3 in., \$1.00; 4 in., \$8.00 per 100. Verbena, 2 1/2 in., \$2.50 per 100. Phlox, 2 1/2 in., \$2.50 per 100. Fuchsia, 3 in., \$5.00 per 100. Lobelia, 2 1/2 in., \$2.00 per 100. Coleus, best varieties, 2 1/2 in., \$2.00; 3 in., \$4.00 per 100. Vinca Variegata, 2 1/2 in., \$2.50 per 100. German Ivy, 2 1/2 in., \$2.50 per 100. Alternanthera, green, red, pink, 2 and 2 1/2 in., \$2.50 per 100. Alternanthera, Brillantissima, \$3.00 per 100. Dusty Miller, 2 1/2 in., \$2.00 per 100. Mme. Sallerol, 2 1/2 in., \$3.00; 3 in., \$5.00 per 100. Asters, Simple; Improved Victoria, Emprase Frederick, and Queen of Market, 2 1/2 in., \$2.50 per 100. 400 Meteor Rose Plants, 2 1/2 in. rose pots, \$3.00 per 100.

CHRYSANTHEMUMS

Lord Hopetoun, Ben Wells, Et. Bonnefond, Cecil Otto, Vivand-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Percy Plumridge, Thirkell, White Bonafon, Mrs. Chamberlain, C. H. Diederich, Dr. Enguehard, Chelton, Ida Barwood, S. T. Wright, Chevrant. Rooted cuttings, \$2.50; 2 1/2 in., \$3.50. Major Bonafon, Mrs. Jerome Jones, Yellow Joe, Mrs. Robinson, F. S. Vallis, Mrs. Coombe, Clns. Mrs. T. M. Fockett, Marie Liger, M. Douillet, Paul Sabut, Dalekoff, Ivory, Boccasse, Col. Powell, Mayflower, O. J. Salter, White Maud Dean, Mounier, Rooted cuttings, \$1.50; 2 1/2 in., \$2.50.

Cash, or C. O. D. W. J. & M. S. VESEY, Fort Wayne, Ind. Mention The Florists' Exchange when writing.

MISCELLANEOUS PLANTS

(Continued) Per 100 1000. Geraniums, Lemon, Mrs. Taylor and Fernifolia odorata..... \$2.00

Hardy Chrysanthemums, small-flowering varieties..... 2.00 \$17.50

Hardy Chrysanthemums, large-flowering varieties..... 3.00 20.00

Hardy Phlox, 10 named var..... 3.00

Heliotrope, good varieties..... 2.00 17.50

Ivy Geraniums, in var..... 3.00

Lantanas, 5 varieties..... 2.00 17.50

Moranta Masanagana..... 4.00

Moonvines, white, 50c. per dozen..... 3.00 25.00

Nymphæa Odorata gigantea, 50c. doz..... 3.50

Petunias, Dreeer's double mixed 2.50 17.50

" Dreeer's superb single mixed 2.00 15.00

Phlox, hardy..... 3.00 25.00

Plumbago, Capensis, white..... 3.00

age, Bolt's Mammoth..... 2.00 15.00

Salvias, in variety..... 2.00 17.50

Smlax, strong..... 2.00 15.00

Swainsona Alba and Rose..... 3.00 17.50

Vinca (Madagascar Periwinkle)..... 1.50

GERANIUMS

In good variety, \$2.00 per 100. Our selection of varieties, 500 for \$3.75; 1000 for \$15.00.

Send for descriptive list.

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List.

Our Collection of HARDY POMPON CHRYSANTHEMUMS is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different shows.

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

MOON VINES

One thousand, extra large, 4 1/2 in., white, all nicely staked up, 8c. each; \$7.00 per 100. Cash with order.

HONAKER, THE FLORIST Lexington, Ky. Mention the Florists' Exchange when writing.

SALVIAS

Bonfire and Splendens, extra strong, healthy, 2, 3, 4 in., \$1.25, \$2.00, \$3.00 per 100; \$10.00, \$15.00, \$25.00 per 1000.

Geraniums, Double Gen. Grant, Ricard, Nutt, Poitevine, Strong 4 in., \$4.50 per 100. Perkins, Double Gen. Grant, Castellane. Strong 3 in., \$3.00 per 100; most in bud and bloom.

Verbenas, 2 in., 75c.; 3 in., \$1.50 per 100. most in bloom. Ageratum, Lobelia, 2 in., \$1.25 per 100. Coleus, yellow, Verschaffeltii, and mixed, Alternanthera, red and yellow, strong 2 in., \$1.60 per 100. Begonia Vernon, strong 2 to 3 in., \$2.00 to \$3.00 per 100. Cobaea Scandens, 3 in., \$3.00 per 100. Cannas, French mixed, 3 to 4 in., \$3.00 per 100. Heliotrope, 3 in., \$2.00 per 100. Dracena Indivisa, strong, 5 in., \$1.50 per doz.

CASH.

WM. HERZOC, Morris Plains, N. J. Mention the Florists' Exchange when writing.

Carnations, Cannas, etc. SPEAK QUICK

20,000 fine, strong Carnation Plants, from flats, ready to plant, now hardened off outside: Queen Louise, \$20.00 per 1000; Jooet, \$15.00 per 1000; Prosperity, \$2.00 per 100. 100 or over at 1000 rates.

10,000 fine potted Cannas, well established, price, \$1.00 per doz.; \$4.00 per 100. Sheenadoah, David Harum, Crimeon Bedder, Mme. Crozier, Florence Vaughan, Pennsylvania, Chas. Henderson, Duke Marlborough, Sour de A. Crozier, Rosemar Pink, Alecco, and Gloriosa, 2 1/2 in.; Gift Edge, for outside row; Black Beauty, 8c. Dormant Cannas for massing, not named, \$1.50 per 100.

1000 Boston Ferns, 2 1/2 in., 4c. 100 Scottii, 6 in., \$1.00 each; 2 1/2 in., 20c. 1000 Pteris, 3 in., 10c. 1000 Geraniums, assorted colors, 3 1/2 in., 5c.; 2 1/2 in., \$2.50 per 100.

1000 Heliotrope, dark and light, 2 1/2 in. 2000 Verbena, pot 2c.; flats 1c. 1000 Sinata Dalay, Scarlet Sage, and Ageratum, 2 1/2 in., 2c. 1000 Clematis Punctulata, 3 year, 10c. 500 English Ivy, field-grown, long tips, 8c. 1000 Ampelopsis Veltchii, 2 year, field-grown, 8c. 1000 Ampelopsis Veltchii, pot-grown, dormant, long tips, 4c. 1000 Vinca major, var., 4 in., 8c.; 2 1/2 in., 8c. 1000 Honeysuckle Halleans and Golden, field-stock, 8c. 5000 Chrysanthemums, Dr. Enguehard and Duckham, 5c. Pacific, Polly Rose, Eat'n, Appleton, etc., \$2.25 per 100.

Cash, please, or C. O. D.

BENJ. CONNELL, West Grove, Pa. Mention The Florists' Exchange when writing.

C. R. HILLS, GRAND RAPIDS, MICH.

AMERICAN BEAUTY, extra fine, 3 in. per 100, \$6.00
LA DETROIT, extra fine, 3 in. 8.00
CHATENAY—Perle and Sunrise, 3 in. 5.00

ASTERS

Hobenzollern, Queen of the Market and Carlson's, from bench, 60c. per 100, \$5.00 per 1000; from 2 1/2 in. pots, \$1.50 per 100, \$12.50 per 1000.

ROSE PLANTS

Fine stock from 2 1/2 in. and 3 1/2 in. pots, of the choicest varieties, including Killarney, Bride and Bridesmaid. Write for prices. JOHN YOUNG, 51 W. 28th St., New York City.

150,000 Field-Grown CARNATIONS

We are now looking orders for same. S. J. REUTER, Westerly, R. I. Mention the Florists' Exchange when writing

E.G.HILLCO.

Wholesale Florists RICHMOND, IND. Mention the Florists' Exchange when writing

The Lewis Conservatories MARLBORO, MASS.

W. L. LEWIS, Carnation Specialist Mention the Florists' Exchange when writing.

FOR FALL, 1905

ROSES, strong, home-grown plants; H. P.'s and Rambles. CLEMATIS, Large Flowering and Paeoniflora. CLIMBING VINES, leading varieties. ORNAMENTAL SHRUBS and TREES, fine assortment.

ROBT. C. PYE

Carnations NYACK, N. Y. Mention the Florists' Exchange when writing.

JACKSON & PERKINS CO. NEWARK, N. J. Mention the Florists' Exchange when writing.

ROSES

BRIDE, BRIDESMAID, IVORY, GOLDEN GATE, MME. ABEL CHATENAY \$3.00 per 100; \$25.00 per 1000

FIRST-CLASS ROSES

3 1/2 inch pots, \$6.00 per 100. Bride Bridesmaid Perle Meteor Chatenay Hoste Sunset Sunrise Golden Gate Ivory P. R. QUINLAN & CO., Syracuse, N. Y. Mention the Florists' Exchange when writing

GEORGE REINBERG

51 WABASH AVE., CHICAGO, ILL. Mention the Florists' Exchange when writing.

ROBT. CRAIG & SON

JOHN BURTON, Receiver. ROSES, PALMS, CROTONS CARNATIONS and Novelty in DECORATIVE PLANTS Market and 49th Sts., PHILADELPHIA, PA.

ROSES

Clothilde Souper White Cochet Maman Cochet Marechal Niel Etoile de Lyon Ivory La France Sov. de P. Notting Fine stock 2 1/2 in. pots, \$2.00 per 100. Magna Charta Paul Neyron Capt. Christy Ball of Snow 2 1/2 in. pots, \$3.00 per 100. Crimson Rambler 1 1/2 in. pot ready for shift, \$1.50 per 100. Baby Rambler 1 1/2 in. pot ready to shift. \$1.00 per doz.; \$7.00 per 100 JOHN A. DOYLE, Rose Grower, Springfield, Ohio Mention the Florists' Exchange when writing

KAISERIN

Strong, Healthy Plants 3 in. pots \$7.00 per 100 2 1/2 in. pots 5.00 per 100 THE LEO NIESSEN CO. 1217 Arch Street, PHILADELPHIA, PA.

60,000 GRAFTED ROSES For Forcing

Extra fine healthy plants, free from mildew. LIBERTY, Rose pots, \$15.00 per 100; 3 1/2 inch pots, \$18.00 per 100 BRIDE, BRIDESMAID, GOLDEN GATE, KAISERIN Rose pots, \$10.00 per 100; \$95.00 per 1000 3 1/2 in. pots, \$15.00 per 100; \$145.00 per 1000

COLEUS

VERSCHAFFELTII, GOLDEN BEDDER, FIREBRAND 2 1/2 inch pots, \$2.00 per 100; \$18.00 per 1000 SEND FOR PRICE LIST

J. L. DILLON, Bloomsburg, Pa. Mention the Florists' Exchange when writing.

San Francisco.

News Notes. Memorial Day business was not equal to that of former years. There was an overabundance of stock, consequently low prices prevailed. The Wickstrom Floral Company not only reports this Memorial season's San Francisco business about 12 1/2 per cent. better than last year, but 30 per cent. increase in its shipping trade. This company has developed within the past year a growing business feature that is already of much appreciated importance. It consists of quarterly contracts for daily bouquet supplies for doctors' waiting-room apartments and for substantial saloon men's sideboard decorations. Adjoining the Stappenbeck store, on Post street, a new incorporation, entitled Citizens' National Bank, is having a banking house erected, and because this new building is rising less rapidly than was expected, and in order to keep faith with the public and open for banking as had been advertised, temporary arrangements were made to use part of the florist's store. So now Florist Stappenbeck's counter patrons, through a glazed partition that has been constructed, may longingly gaze at trays full of white silver coin and yellow gold. ALVIN.

Pittsburg.

News of the Week. W. F. Lauch is preparing to move his greenhouses from the present place on which they are erected, which is sold, and will go about forty miles from the city to New Galilee, where a farm has been purchased and a company formed to grow cut flowers. Among the visitors last week were B. Eschner, of Rice & Co., Philadelphia; J. Ringier, of Stump & Walter Co., New York, and H. Kallen, of Aug. Rhotert, New York; Mr. Langhans, Wheeling, and Mr. Huscroft, of Steubenville, O. E. C. R.

DAYTON, O.—The engagement of Miss Helen B. Costello and Nicholas Metz has been announced. Both are in the employ of J. R. Heiss, florist.

CHRYSANTHEMUMS

From 2 1/2 in. and 2 3/4 in. pots. A J. Balfour, G. W. Childs, Golden Wedding, Miss Alice Byron, Dr. Enguehard, Merza, Mayflower, W. H. Chadwick, Yellow Eaton. Price from 2 1/2 inch pots, \$4.00 per 100. Col. D. Appleton, H. L. Sunderbruch, Mrs. McArthur, Monrovia, Mrs. Barclay, Maud Dean, Mrs. T. L. Park, Mrs. Combs, Nellie Pockett, Nagora, Soleil d'Octobre, Superbe, Silver Wedding, T. Carrington, Vivand-Morel. Price from 2 1/2 inch pots, \$3.50 per 100; \$31.00 per 1000. Autumn Glory, Ada Spaulding, Collingfordii, Dorothy Devens, Glory Pacific, Harry May, Harry Parr, H. W. Reiman, J. E. Lager, J. H. Troy, Mrs. Jerome Jones, Meta, Mionie Wanamaker, Mrs. Baer, Mrs. S. T. Murdock, Miss M. M. Johnson, Major Bonaffon, Mrs. Humphrey, Mad. Fred Bergman, Niveus, Polly Rose, Pink Ivory, Rose Owen, Thomas H. Brown, Timothy Eaton, W. H. Lincoln, Xeox. Price, from 2 1/2 inch pots \$3.00 per 100; \$25.00 per 1000.

ROSES

Hermosa, Grisee an Teplite, La France, Clothilde Souper, Crimson Rambler, from 6 in. pots, strong, \$25.00 per 100. Hardy and everblooming vars. 2 1/2 inch, \$4.00; 3 1/2 inch, \$12.00; 4 inch, \$15.00 per 100. GRAFTED FINE STOCK Bride, Bridesmaid, Golden Gate, Carnot, Kaiserin, Testout, La France, Wootton, Watteville, Albany, from 3 inch pots, \$15.00 per 100. Killarney, from 3 in. pots, \$15.00 per 100.

WOOD BROS., Fishkill, New York

Mention The Florists' Exchange when writing.

THE AMERICAN CARNATION Price, \$3.50. Send for Sample Pages A. T. DE LA MARE PTG. & PUB. CO. Ltd., 2-8 DUANE STREET, NEW YORK

CHICAGO CARNATION CO. JOLIET, ILL.

Ours plants are now in the field. Write us for Fall delivery. Mention the Florists' Exchange when writing.

CARNATIONS

Chrysanthemums and Violets Rooted Cuttings. Send for List WILLIAM SWAYNE, P. O. Box 226, Pa. Kennett Square, Pa. Mention the Florists' Exchange when writing

The Beautiful Pink Carnation CANDACE

Dissemination 1906, \$2.00 per doz., \$12.00 per 100 \$100.00 per 1000. Early—commercial. Indianapolis Flower and Plant Co and John Harje, Indianapolis Ind. Mention the Florists' Exchange when writing

RED SPORT

The Great Christmas "Hollyberry" red Carnation. Most profitable red ever introduced, and so easy to do, everybody can successfully grow it. Strong plants from 2 1/2 in. pots, ready to plant in field or on bench inside. \$6.00 per 100 \$56.00 per 1000. A. B. DAVIS & SON Carnation Specialist PURCELLVILLE, VA. Mention the Florists' Exchange when writing

Carnations F. DORNER & SONS CO. LA FAYETTE, IND.

Mention the Florists' Exchange when writing

J. D. THOMPSON CARNATION CO. JOLIET, ILL.

Carnations Our Specialty

Own Root ROSES Fine Stock

Bride, Bridesmaid, Golden Gate, 2 1/2 in. pots \$4.00 per 100; \$39.00 per 1000. 3 in. pots \$7.00 per 100; \$60.00 per 1000. Sunset, Sunrise, 2 1/2 inch, \$5.00; 3 inch, \$8.00 per 100.

MISCELLANEOUS PLANTS

READY FOR IMMEDIATE SALES. Size pots Per 100 Alteranthers, red and yellow 2 1/2 3.00 Ageratum, Pauline, Copes Gem 1 3/4 3.00 Stella Gurney and White 3 4.00 Cap 3 4.00 Cuphea Platycentra 2 1/2 3.00 Cobaea Scandens, strong 3 1/2 10.00 Coleus, all leading varieties 3 4.00 Cannas, varieties as list 2 1/2 6.00 & 8.00 Feverfew, double white 2 1/2 3.00 Geraniums, d'ble and single strong 3 1/2 7.00 special color or variety 3 1/2 8.00 Ivy, fine varieties 3 1/2 8.00 English Ivy 3 1/2 8.00 Fuchsia, double and single 2 1/2 7.00 Heliotrope, light and dark vars 2 1/2 3.00 Hydrangea Otaka, in bud 2 1/2 24.00 Ivy, German 2 1/2 3.00 Lantana, 12 best vars 3 1/2 4.00 Lobelia 2 1/2 3.00 Moonflower, white 4 3.00 Salvia, Splendens and Bedman 2 1/2 3.00 Tritoma Pfizerli strong 4 10.00 Tropaeolum, double 4 4.00 Vinca Variegata and Elegans 1 3/4 6.00 Verbenas 3 3.00

ROSE STOCK

GRAFTED KILLARNEY

I had ordered material for the erection of several new rose houses this Spring. Recent unavoidable events have caused me to change my plans. This leaves me with several thousand very desirable grafted roses on hand which I now offer for sale at a bargain. This lot includes **KILLARNEY, METEOR** and **BRIDESMAID** in 3 in. pots, first-class stock, intended for my own use. These roses are ready for immediate planting, and of healthy and vigorous growth. Also ready for immediate shipment, grafted **Bride, Chatenay, Ivory, Golden Gate, La Detroit, Testout** and **Morgan**. I have in own-root stock **American Beauty, Chatenay, Bridesmaid, Bride, Meteor, Golden Gate, Ivory** and **Uncle John**. Several thousand home-grown, dormant **Killarney** to offer this Fall.

Write for Prices.

A. N. PIERSON, CROMWELL, CONN.

Mention The Florists' Exchange when writing.

CHRYSANTHEMUM STOCK

Rooted Cuttings

The following choice varieties of **CHRYSANTHEMUMS**, rooted cuttings, are now ready; healthy, vigorous, well-rooted plants:

Enguehard, Duckham, Marie Liger, Ethelyn, Alice Byron, Polly Rose, Willow Brook, Wanamaker, Robinson, MacArthur, Chadwick, Glory of Pacific, Pink Ivory, J. K. Shaw, Adela, Maud Dean, Lavender Queen, Harriott, Monrovia, J. E. Lager, Georgiana Pitcher, Appleton, Golden Gate, Bonnaffon, Trenor L. Park, Cullingfordii and **Kate Broomhead**.

ROSES

American Beauty, 2 in. pots, \$5.00 per 100. 2 years old, 4 in. pots, 40 varieties, our selection, \$6.00 per 100. 40 varieties, our selection, 2 in. pots, \$15.00 per 1000.
2 in. Asparagus plumosus, \$2.50 per 100.
3 " " " \$4.00 "
2 " " Sprenger, \$2.50 "
Stokesia Cyanea, \$2.00 per 100, 2 in. pots.
Heliotropes, Hardy Phlox, Fuchsias, \$2.50 per 100; Salvia, \$2.00 per 100; Flowering Begonias, \$2.50 per 100; Moon Vines, 2 1/2 in., \$2.50; 4 in., \$10.00.

THE NATIONAL PLANT Co.
DAYTON, O.
Mention the Florists' Exchange when writing.

Grafted Roses

Fine Stock—Ready for Benching per 100
Bride, Bridesmaid, Golden Gate, 3 1/4 in. pots, \$12.00
Liberty, 4 in. pots, 15.00
Baby Ramblers, 5 in. pots, in bud and bloom, \$5.00 per doz.; 3 in. pots, very strong 20.00

FINE OWN ROOT STOCK
Bride, Bridesmaid, Golden Gate, Ivory, 3 in. pots, 3.50
4 in. stock, delivery June 15, 5.50

CHRYSANTHEMUMS
For varieties and prices see my advertisement in issue of May 27, page 700.

JAMES E. BEACH,
2019 Park Avenue, BRIDGEPORT, CONN.
Mention the Florists' Exchange when writing.

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA, UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000	Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	PERLE VON GODES-BERG	\$5.00 \$40.00
ROSALIND ORR			BRIDESMAID	3.00 25.00
ENGLISH	25.00	200.00	BRIDE	3.00 25.00
LA DETROIT	6.00	50.00	IVORY	3.00 25.00
AMERICAN BEAUTY	5.00	40.00	PERLE	3.00 25.00
LIBERTY	5.00	45.00		

AMERICAN BEAUTY, bench plants, \$5.00 per 100; \$40.00 per 1000.
All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central
PETER REINBERG, 51 WABASH AV., CHICAGO

Mention the Florists' Exchange when writing.

PHILADELPHIA ROSES

American Beauties, 4 in., 3 in., 2 1/2 in.

MYERS & SAMTMAN, WYNDMOOR STATION, CHESTNUT HILL PHILADELPHIA, PA.

Everblooming Roses

Surplus stock of standard varieties of Everblooming Bedding Roses, at prices that will close them out.

Strong, healthy stock from 2 1/2 in. pots, to include Bridesmaid, Bride, White Maman Cochet, Mary Washington, Queen's Scarlet, etc.

Strictly our choice of varieties in good assortment, \$2.00 per 100, \$17.00 per 1000

The Storrs & Hapison Co.

PAINESVILLE, OHIO

BABY RAMBLER

ON ITS OWN ROOTS

Strong, healthy, 2 1/2 in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000. Ready to ship at once. A few 3 inch plants, \$3.50 per doz.; \$25.00 per 100.

TEA ROSES Good assortment of varieties, \$3.50 per 100; \$30.00 per 1000. Strong, healthy plants.

Genista Fragrans 2 1/2 in., 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

CANNAS

We still have healthy, dormant roots, in Crimson, Yellow, Pink. Variegated Shades, Bronze Leaf Varieties. Also Orchid-flowering varieties. Send for our list and prices.

THE CONARD & JONES CO. WEST GROVE, PA.

Mention The Florists' Exchange when writing.

ROSES

FOR IMMEDIATE EFFECT

Haven't you in your trade a call for large, strong Rose plants, such as will give immediate results? We have prepared for June planting a stock of strong, two-year-old plants, all on own roots, except where noted, and while they last will close them out at the extremely low price of

\$15.00 per 100; 25 or more at 100 rates. No charge for packing

These Roses can be placed in the open ground during this month and will give a profusion of flowers throughout the entire growing season. They are worth just twice as much as we are asking for them, and they can be depended upon to produce the goods. They are well foliaged, have strong working roots and are now in 4 in. and 5 in. pots. The collection includes a wide range of varieties and colors, Teas and Hybrid Teas, such as Meteor, Henry M. Stanley, Kaiserin Augusta Victoria, Marie Guillot, White Maman Cochet, Coquette de Lyon, Pink Souper, Clothilde Souper, Golden Gate, White Golden Gate, The Queen, Ma Fillette, Helena Gambler, Yellow Souper, Mme. Jolez Grolez, Striped La France, Yellow La France, Bridesmaid, The Bride, Mme. Welche, Duchess of Albany, Mme. Abel Chatenay, Marie Lambert.

CLIMBERS—Crimson Rambler, Yellow Rambler, Climbing Clothilde Souper and Cherokee.

HYBRID PERPETUALS—Coquette des Blanches, Perle des Blanches, Perfection des Blanches, Mme. Gabriel Luizet, Merveille de Lyon, Margaret Dickson, budded, 5 inch pot plants, \$25.00 per 100
Soleil d'Or, budded, 5 inch pot plants, \$25.00 per 100.

BABY RAMBLER Ever-blooming Dwarf Crimson Rambler. A gem among Roses. Always in bloom. Every florist in the land should have it. 2 1/2 inch pot plants, now ready for delivery, \$2.50 per dozen; \$15.00 per 100; \$125.00 per 1000.

MISCELLANEOUS PLANTS

In 2 1/2 inch pots except where noted.

	Each	Each	
Asparagus Sprenger	\$0.01	Scott's Fern	\$0.12
Asparagus Plumosus	.05	Yellow Alternanthera	.03
Kentia Belmoreana, 3 in	.10	Carnations, F. Joost, E. Crocker, Queen Louise	.05
Areca Lutescens, 3 in	.10	English Ivy	.04 1/2
Flowering Begonias, assorted, named varieties	.03 1/2	Sweet Scented Geraniums	.04
Fuchsias, named varieties	.04	Acalypha Triumphant, Sanderi, Bicolor and Marginati	.04
Boston Fern	.04	English Clematis, six kinds, including Jackmanii, strong, two-year imported roots	.20
Sword Fern	.04		
Pieris Fern	.04		

Ask for Catalogue, 114 pages, free. Address

THE DINGEE & CONARD CO., West Grove, Pa.

ESTABLISHED 1850

ROSE GROWERS

70 GREENHOUSES

Mention The Florists' Exchange when writing.

CLASSIFIED ADVERTISEMENTS

Cash with Order

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), set solid, without display. Display advertisements in these columns 15 cents per line; count 14 lines to the inch.

No advertisement taken for less than 50 cents (35 words), except Situations Wanted.

[If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.]

STOCK FOR SALE

SALVIA, early flowerlog sorts, good 3-in., 3/4c. Geraniums, double scarlet and crimson, good stock, 3-in., 4c. Lobelia, 2-in. and 2 1/2-in., 2c. Cash. Ellis Bros., Keene, N. H.

ADIANTHUM CUNEATUM—Strong clumps, bench grown, ready for 6 and 8-in. pots, \$10.00 and \$15.00 per 100. Cash with order please. C. D. Du Moulin, Rose Lawn Greenhouse, New York Mills, N. Y.

ASTERS—Simple's Queen of the Market and Comet, 5 colors, mixed, \$2.50 per 1000. Simple's separate colors, white, pink, rose, purple and lavender, \$3.00 per 1000. All field-grown, ready to plant. Cash with order. A. & G. Rosbach, Pemberton, N. J.

London, Ont., June 3, 1905

THE FLORISTS' EXCHANGE

Dear Sirs:—Enclosed please find money order for \$6.00. Kindly stop our advertisement. We may say that it has given us good satisfaction as we have had a large number of inquiries and some very good sales have resulted from it.

J. GAMMAGE & SONS

STOCK WANTED

WANTED!

500 strong rooted cuttings large leaved ENGLISH IVY

1000 Asparagus Plumosus Nanus, from 2 1/2 inch pots, extra well-rooted, ready for a shift.

Address, with sample and price,

J. NEWMAN & SONS, Corporation
51 Tremont St. Boston, Mass.

SITUATIONS WANTED

SITUATION wanted by orchid grower, single; many years' experience on good private and commercial places; best references. Apply Julius Roehrs, Rutherford, N. J.

FIRST-CLASS maker-up and decorator; best of city references; wishes permanent position. City preferred. Z. D., care Florists' Exchange.

FIRST-CLASS gardener and florist wishes position; private or commercial; twenty years' experience in all branches; can furnish good references. Charles Ribstein, Short Hills, N. J.

SITUATION wanted by florist, landscape gardener, grower, designer, etc.; life experience in charge; private and commercial. German, 38, married, family; best references. Box 54, Spencer, Mass.

SITUATION wanted as gardener on private place; 18 years' experience in all branches of gardening, both under glass and outside; age 34 years, married, 8 years in present place. For reference, etc., address Z. A., care Florists' Exchange.

STEADY POSITION wanted by single man, age 29, grower of roses, carnations, chrysanthemums and pot plants; strictly sober and reliable; best of references. Please state wages per week. Aegerter, 551 East 150th St., New York.

HEAD GARDENER, HOLLANDER, AGED 38, MARRIED, WANTS POSITION; EXPERIENCED IN ALL BRANCHES OF GARDENING; GOOD LANDSCAPER AND NURSERMAN. ADDRESS Z. B., CARE FLORISTS' EXCHANGE.

SITUATIONS WANTED

A MAN of long experience, first-class references, wants position as working foreman growing roses, carnations, chrysanthemums, etc.; commercial or private. X. A., care Florists' Exchange.

SITUATION wanted in florist store; 10 years' experience as salesman, designer, decorator, etc. Position wanted where honesty and attention to business are appreciated. Strictly temperate. First-class reference. Address Permanent, care Florists' Exchange.

GARDENER and florist, 38, single, German, very neat, and sober; 23 years' experience on first-class private and commercial places; understands the business thoroughly, under glass and outside. Only steady place wanted, and fair wages. First-class references from former and last employers. Address H. H., care Boulger, 105 West 124th St., New York.

HELP WANTED

WANTED—A MAN TO WORK IN ROSE HOUSES. ADDRESS Z. C., CARE FLORISTS' EXCHANGE.

WANTED—Working foreman for general greenhouse work; good wages to the right man. Address W. C. Goodrich, Watervliet, N. Y.

WANTED—At once, two men for general greenhouse work; steady position; good wages. Apply Chas. L. Stanley, Plainfield, N. J.

WANTED—A man as assistant on commercial place; must have had a few years' experience. Address A. N. Towell, West 200th St. and Fort Washington Ave., New York.

WANTED—At once, young man having some knowledge of greenhouse work; must be strictly honest and industrious. Apply, stating wages, with board, Thos. Barson, Florist, Johnston, N. Y.

SALESMAN wanted to solicit orders for fine nursery stock; gardeners and others who have some knowledge of the business; steady employment and good pay. Address P. A. Keene, 1 Madison Ave., New York.

WANTED—Young man with general knowledge of greenhouse work to take charge of small commercial place in owner's absence; 9,000 square feet; roses principally; state wages. Box 69, Bala, Pa. (near Philadelphia).

WANTED—At once, a good all-around florist to take charge of three new houses, 20x100. Roses, carnations and general variety of flowers to be grown. Must be sober and industrious. Write to Box 690, Beaver, Pa., giving particulars.

WANTED—Working foreman on general cut flowers and bedding plants for cemetery work; must be sober, reliable, and give best reference from last place. Good wages and permanent place for the right man. Call in person or write to John Albrecht, Pencoyd, Pa. (near Philadelphia).

WANTED—A competent bookkeeper and office man familiar with the tree and plant business; good opportunity and permanent place for a man not afraid of work, and who wishes to advance. References required. Also a nurseryman of good habits; young, energetic man preferred. Fancher Creek Nurseries, Inc., Fresno, Cal.

WANTED Young man for Seed and Bulb department. Apply giving age and experience to HENRY A. DREER, 714 Chestnut St., Philadelphia.

Mention the Florists' Exchange when writing.

BUSINESS OPPORTUNITIES

GREENHOUSE, 17x40, in fine condition, including boiler and pipes. Apply Mrs. W. T. Duryea, Amityville, L. I., N. Y.

FOR SALE—6000 ft. glass and a four-year paid lease, on one acre land, for \$300.00; in a town of about 5000. No competition. Ill health. J. R. Johnston, Dunkirk, Ind.

FOR SALE—Entire florist business; store, with splendid established trade; three small greenhouses rear of store; stable and wagon shed. Will be sold cheap. Lung trouble cause of owner selling. Address A. B. Macbain, 410 Market St., Harrisburg, Pa.

AUCTION SALE.

I will sell at public auction on the premises, rain or shine, Thursday, July 6, at 12 o'clock noon, the Humphrey Greenhouse in the City of Rome, N. Y. Has 15,000 square feet of glass, located on lot consisting of 165-foot frontage and 150 feet deep, with ten modern, well-equipped greenhouses, all stocked with palms, ferns, roses, carnations and general bedding stock. Houses are all heated with steam, are centrally located and doing a fine business. Also an 11-room dwelling, with modern improvements, and a natural gas well, which supplies the property with light.

Reasons for selling, sickness. For further information call or address John Doud, Auctioneer, 57 Arcade, Utica, N. Y.

BUSINESS OPPORTUNITIES

TO LET—Illness compels renting of a beautiful floral plant in "The Flower City," consisting of four greenhouses, fully equipped; great money maker. For particulars address Cora M. Jones, 10 State St., Rochester, N. Y.

\$700 CASH buys established florist business near manufacturing center; six room dwelling house, barn and workshop; three greenhouses and four acres of land; with exceptionally good market for product. Address F. J. Ekmark, Real Estate and Insurance, Meriden, Conn.

FOR SALE—Our entire plant, 10 greenhouses, about 25,000 ft. glass, nearly all 16x24 in. in size, and double thick iron and cedar posts, cypress bars; business established over 30 years, but entirely rebuilt in last 10 years; heating, hot water under pressure. A large percentage of income is from cut flowers and floral work; entire products sold retail. Receipts all right, books open. Terms easy. We are only 20 miles from Massachusetts State line, with some of N. H. fine summer resorts near us. Address Ellis Bros., Keene, N. H.

For Sale

Entire florist's business, store and three small greenhouses in the city of Philadelphia, will be sold cheap. Apply to

HENRY F. MICHELL CO.

1018 Market St., Philadelphia, Pa.

Mention The Florists' Exchange when writing.

MISCELLANEOUS

WANTED—The address of Joseph Stuber, late of Duluth. F. H. Phelan, Lock No. 4, Pa.

WANTED TO BUY

greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

FOR SALE

Greenhouse Material and Hot-bed Sash, milled of Louisiana Cypress.

Try V. E. Reich's Oxford Putty; specially made for Greenhouse and Hot-bed Sash.

V. E. REICH

1429 Metropolitan Avenue, BROOKLYN, N. Y.
Mention the Florists' Exchange when writing.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs; other makes; new; cheap.

BOILERS New and second-hand. 1 second-hand heat 1000 sq. ft. glass, at \$35.00. 1 second-hand No. 17 Hitobing boiler, first-class, \$75.00.

PIPE Good serviceable second-hand, with Threads: 2-in., 7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 3 1/2 cts.; 1-in., 3 cts. New 2-in. Standard, full lengths, with couplings, 8 1/2 cts. ft. Old and new fittings and valves.

STOCKS and DIES New Economy, best made. No. 1 Threads, 1/2-in., 3/4-in., 1-in. pipe, \$3.00. No. 2 Threads, 1 1/4-in., 1 1/2-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New Saunders Pattern. No. 1 cuts 1/2-in. -1-in. pipe, \$1.00. No. 2 cuts 1-in. -2-in. pipe, \$1.30.

STILLSON WRENCHES New. 18-in., grips 1/2 in., 1-in., 2-in. pipe, \$1.65; 24-in., grips 3/4-in. -2 1/2 in. pipe, \$2.40; 36-in., grips 1 1/2-in. -3 1/2 in. pipe, \$4.75.

PIPE VISES New. No. 1 Hinged, grips 1/2-in. -2 in. pipe, \$2.25.

GARDEN HOSE New. 3/4-in., guaranteed 100-lbs. pressure, 7 1/2 cts. per ft.; 1/2-in. not guaranteed, 4 1/2 cts. per ft.

HOT-BED SASH New. Cypress, 3-ft. x 6 ft., from 70 cts. up; glazed, complete, from \$1.80 up. Second-hand as good as new, complete, at \$1.25 and \$1.00 each.

RADIATORS Good as new. 15 cts. per pipe.

GLASS New American, 60 sq. ft. to the box. 10x12, Single, at \$1.40; 10x12-12x12, B. Double, at \$2.40; 12x14-12x16-12x20-14x18-14x20-16x18-16x18, B. Double, at \$2.60; 15x20-15x24, B. Double, at \$2.90.

Get our prices on New Gelf Cypress Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Paint, Points, etc.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.
Mention the Florists' Exchange when writing

New advertisers are apt to feel that the publications they use are on trial, whereas it is their business methods and conditions which are being tested. Neither the advertising idea nor the standard publication is an experiment. They are a known quantity, and have an established reputation and influence. If an advertising campaign fails it is probably not the fault of the publications. The success or failure of the advertising rests upon the advertiser. —The Publisher and Advertiser.



After the first week in June most growers start replanting their houses, still where the old plants are clean and one is cutting nice stock from them, it would be well to delay the work for a few weeks, providing the young plants are not suffering.

After the old plants are thrown out, the house should be cleaned thoroughly, and all litter under the benches removed. The benches should then be washed out with the hose, and given a coating of hot lime wash to which a quantity of cement has been added. This will prolong the life of the benches a number of years. Some growers allow their houses to stand idle two or three days, for the benches to dry out, but while this may be of some benefit, it shortens the life of the benches considerably.

The soil, before being brought in, should be fairly well pulverized and have some bone meal mixed through it, at the rate of 100 pounds to a 150 x 20 foot house. Care should be taken to have the soil, when placed in benches, properly leveled, and well packed on the side.

A bench 3 feet 6 inches wide will take four rows of plants; about 14 to 16 inches apart in the rows is right for most varieties, with the exception, possibly, of American Beauty, which should have at least 18 inches. Before planting, the plants should receive a good soaking, as it is folly to plant dry plants. After planting, soak the whole bed, to settle the soil, after which only the ball of the plant should be watered until the plants are well established.

The plants should all be clean and healthy, as poor stock means a poor start. It will more than pay to buy good stock, from a reliable firm, than to use your own if for some reason it is not up to the standard.

It is hoped that growers will try a few plants of some of the newer roses, for, as has been mentioned in these notes before, this would work wonders for the advancement of the rose and its culture. PENN.

The American Seed Trade Association.

Word has just reached me that special round trip tourists rates have been made to Alexandria Bay, New York, from various parts of the country. Full particulars can be obtained by enquiring of the local ticket agents at all important points, and are contained in the "Summer Tourists Sheets."

Alexandria Bay is not on any railway but is reached by steamer from Clayton, New York, or, if preferred, by a longer lake trip from Charlotte, New York, Toronto or Kingston, Ontario, via the Richelieu & Ontario Navigation Co.'s elegant steamers.

Special excursion rates have also been made to conventions held at about the same time at Toronto and Watertown, New York, to which points rates may be found more favorable from some places. 1 1/2 fare for round trip.

Please be sure and make your arrangements to be present and I assure you of a good time. Many consider the "Thousand Islands" the finest piece of scenery in all America, and some who have traveled all over Europe say that there is nothing there that compares with it.

Matters of great importance to every seed dealer in America will be presented at the convention, and I am sure that you will afterwards look back to the three days spent there as among the most pleasant and profitable in your experience.

CHAS. N. PAGE, PRESIDENT.

The Crossmont House hotel rates are \$3.00 to \$4.50 per day, according to location and length of stay.

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Wholesale Commission Dealer in Cut Flowers
Telephone, 106 W. 28 St., NEW YORK
Consignments Solicited.
Prompt Payments
Mention the Florists' Exchange when writing.

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BONNET & BLAKE
Wholesale Florists
26 Boerum Place, BROOKLYN, N. Y.
Telephone 4638 Main.
Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
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Sixth Ave. and 26th St.
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Open every Morning at Six o'clock for the Sale of Cut Flowers
Wall Space for advertising purposes to Rent
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Always ready to receive Fine Stock
WILLIAM H. GUNTHER
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Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION
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To be disseminated 1906. Also a complete line of choicest flowers.
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Wholesale Florists
And Dealers in FLORISTS' SUPPLIES
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Phone, 3660-3661 Main BROOKLYN, N. Y.



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Madison Square 50 W. 30th St., New York
Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & THOMPSON
Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Consignments Solicited.
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Receivers and Shippers of
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Wholesale Prices of Cut Flowers, New York, June 9, 1905.
Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	10.00 to 25.00	Carnations	Inf'r grades, all colors.....	2.0 to .50	
	" extra	8.00 to 10.00		STANDARD	White.....	.50 to .75
	" No. 1	6.00 to 8.00		" VARIETIES	Pink.....	.50 to .75
	" No. 2	3.00 to 4.00		" Red.....	Red.....	.50 to .75
	" No. 3	1.00 to 2.00		" Yel. & Var.....	Yel. & Var.....	.50 to .75
	Bride, 'Maid, fancy—spe'	3.00 to 5.00		" White.....	White.....	.75 to 1.00
	" extra.....	2.00 to 3.00		*FANCY—	Pluk.....	.75 to 1.00
	" No. 150 to 1.00		(*The highest	Red.....	.75 to 1.00
	" No. 2.....	to .50		grades of	Yel. & Var.....	.75 to 1.00
	" No. 3.....	to .50		standard var.)	(NOVELTIES.....	1.00 to 2.00
Golden Gate.....	1.00 to 5.00	(NOVELTIES.....	1.00 to 2.00	2.00 to 3.00		
Liberty.....	3.00 to 15.00	LILIES	LILY OF THE VALLEY.....	1.00 to 3.00		
Meteor.....	1.00 to 4.00	" VARIETIES	MIGNONETTE, ordinary.....	.25 to .50		
Mme. Abel Chatenay.....	1.00 to 4.00	" fancy.....	" fancy.....	2.00 to 3.00		
ADANTUM	.50 to 1.75	PANSIES, per dozen bunches.....	PEONIES.....	2.00 to 4.00		
CROWNEANUM.....	to 1.50	SMILAX.....	" SMILAX.....	8.00 to 10.00		
ASPARAGUS	25.00 to 50.00	STOCKS, per bunch.....	SWEET PEAS.....	.25 to .35		
" Sprangeri, bunches.....	6.00 to 10.00	" SWEET PEAS.....	" SWEET PEAS.....	.50 to 1.00		
CALLAS.....	3.00 to 5.00	" SWEET PEAS.....	" SWEET PEAS.....	to 1.00		
CATTLEYS.....	25.00 to 75.00	" SWEET PEAS.....	" SWEET PEAS.....	to 1.00		
DAISIES.....	.35 to .50	" SWEET PEAS.....	" SWEET PEAS.....	to 1.00		
GLADIOLUS.....	4.00 to 6.00	" SWEET PEAS.....	" SWEET PEAS.....	to 1.00		
IRIS.....	1.50 to 2.00	" SWEET PEAS.....	" SWEET PEAS.....	to 1.00		

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ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING
American Beauty, Bridesmaid, Bride, Liberty,
Meteor, Lily of the Valley, Carnations
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55 West 28th St., NEW YORK
TELEPHONE, 1462-1463 MADISON SQUARE
CUT FLOWERS AT WHOLESALE

Boston.
The Week's News.
The next meeting of the Gardeners and Florists' Club, which, by the way, is the last meeting till Fall and which will be held on the evening of the 20th inst., promises to be one of the most interesting of the season. M. H. Walsh, Woods Hole, will be present and talk on roses; and there will be numerous other attractions, including refreshments and music.

Preparations are going on for the club's picnic, which will be held during July. The club will hold an outing at the establishment of Wm. Sim, at Cliff-tondale, most likely on the 24th of this month.

The Board of Directors of the Massachusetts Horticultural Society, on Monday afternoon, visited the Arnold Arboretum and the home estate of Professor Sargent, at Brookline.

The peony show of the Massachusetts Horticultural Society has been postponed one week on account of the lateness of the season. It will now occur on Saturday, June 17.

The picnic of the two flower markets was very successfully held at Natick on Saturday last. The ball game between two picked teams of the markets was the chief attraction; the score stood 13 to 12 in favor of the Music Hall team.

W. E. Glidden, salesman for the J. A. Budlong & Son Co., and Ethel Corey, of Newtonville, were married June 1. The young couple have the best wishes of a host of friends throughout the city.

The Waban Rose Conservatories are planting a large lot of their new rose Wellesley. They have just begun to cut from their Summer house of American Beauty, which contains some very fine blooms.

In town, E. Koplitz, Chicago.
J. W. DUNCAN.

Cincinnati.

News Notes.
Business during the past week has held up well, and it is to be hoped the smart set, who are entertaining Miss Alice Roosevelt, will need something more than field daisies and other outdoor flowers before the social season has ended. School graduations and weddings are giving our retail stores something to do.

The gardeners in the Jabez Elliott Flower Market have all had a fine Spring business in the plant line, and most of them have cleaned out. Geraniums especially have sold well.

President Ben George informs me that it is the intention of George & Allan and D. Rusconi to join hands and entertain the florists of Cincinnati and vicinity to a big outdoor banquet with all the social features, which go with an affair of this kind, at a very early date, which will be announced later.

In August, the Hamilton County Agricultural Society will hold its annual fair at the Oakley race course. Special efforts are being put forth to make the floral display the attraction. The society itself will offer several hundred dollars in premiums, and outside subscriptions are being solicited to swell this amount. Unfortunately, the August dates of this show are the same as those of the S. A. F. O. H. Convention, which will keep several members of our national society from going to Washington.

J. B. O'Neil, of Chicago, representing Vaughan's Seed Store, was a caller this week. By the way, I see our worthy president of the S. A. F. O. H. was the recipient of many attentions during his recent visit to the Pacific Coast, and as he will visit Portland, which is claimed by many to be the paradise of America, he will possibly give the society an interesting talk on The Lewis and Clark Exposition and the future for the young and middle-aged man in the great Northwest.

That was a very fine picture of J. F. Sullivan, of Detroit, in one of your contemporaries. Does it mean something in the near future?

A. R. Johnston is the name of a new florist in Bellevue, Ky. He is a very bright and energetic young man, and we wish him success.

E. G. GILLETT.

The Florists' Exchange

FOR JUNE COMMENCEMENTS AND WEDDINGS

we have SMILAX, ASPARAGUS, and the finest American Beauty Roses. Also everything else in seasonable flowers.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

SAMUEL S. PENNOCK

THE Wholesale Florist
of Philadelphia

PEONIES for June Weddings

Mention The Florists' Exchange when writing.

PEONIES CARNATIONS, ROSES, Etc.

THE PHILADELPHIA CUT FLOWER CO.

1516 and 1518 Sansom St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

NEW CROP FANCY and DAGGER FERNS

READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.

Special Quantity Prices on Application
E. A. BEAVEN, Evergreen, Alabama

SCRANTON FLORIST SUPPLY COMPANY

201 North Seventh Ave.
SCRANTON, PA.

Importers and Manufacturers of ALL
FLORISTS' SUPPLIES, RIBBONS AND CHIFFONS
Send for Catalogue

Mention the Florists' Exchange when writing.

CALL ON EUGENE BERNHEIMER Carnations, Roses and Spring Flowers

FOR PROMPT
DELIVERY ON

11 South 16th Street,
PHILADELPHIA

Mention the Florists' Exchange when writing.

USE KRICK'S FLORISTS' Immortelle Letters, Inscriptions, &c.

Highest Awards Wherever Exhibited



These Letters and Designs are made of the best Immortelles, wired on wooden frames, having holes drilled in them to insert tooth-picks by which they are fastened in the design. Give them a trial. You will find these Letters to be superior to any in the market.

1 1/4-inch Letters and Figures.....per 100, \$2.50
2-inch Letters and Figures..... " 2.50
2 1/4-inch Letters..... " 3.00

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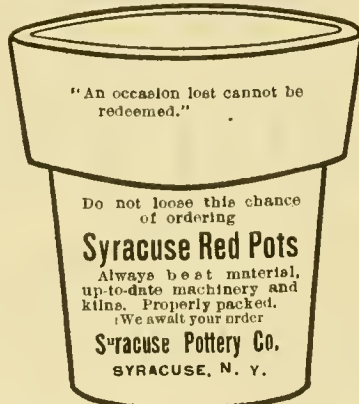
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News Items.

The cut flower trade is but moderate just now, with, however, some modest wedding orders lending good influence. Flowers are in fair supply for needs, with American Beauty roses and peonies in almost gluts. The weather has been a bit too wet of late to suit the plantmen, in its hindering order filling.

Archbishop Simon's visiting his diocese here on Sunday last, as representative envoy of the Pope of Rome, made occasion for the Polish constituents to call for flowers freely for his reception. The number of bunches turned out by Mrs. Schoenbut, on William street, was only limited to ability of the working force of the establishment, and made a pleasing clean-up of stock.

John G. Pickelman, of Washington street, seems to hold a perennial claim on the annual orders for fitting out the Northwest and Northland lake passenger steamers with their Summer trimmings of palms, baskets, etc., and is this week in the metropolis looking up needed material.

Rumor is frequent about the department stores here entering actively in the conducting of floral departments. It is now given out authoritatively that F. Albert, formerly of Rochester, N. Y., has arranged for the opening of such, with the Hengerer Company, on the basis of a percentage going to the store. The effort is to be a bit pretentious in its class, starting with a twenty-foot length space of counters.

Arthur Beyer, manager of Palmer's up-town store, has been confined to his home with rheumatism for the past two weeks.

S. J. Rebstock has returned from the South for the Summer, and is now handling the plant business for his sister, Rachel M. Rebstock.

Recent visitors included E. B. Sage, of Red Rock, Pa., who, though an owner of many oil wells, still gives active attention to running his range of rose houses, the output of which is commonly handled by J. H. Rebstock Company, of this city; also S. S. Skidelsky and J. T. McHutchison. VIDI.

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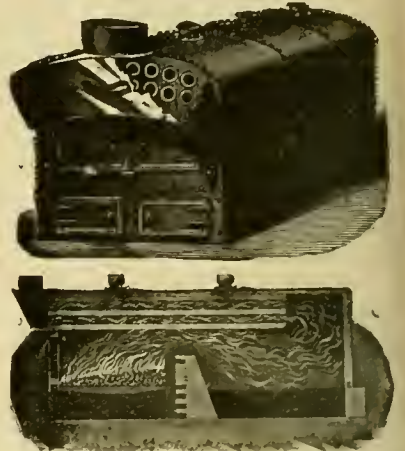
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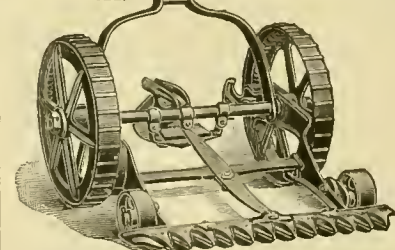
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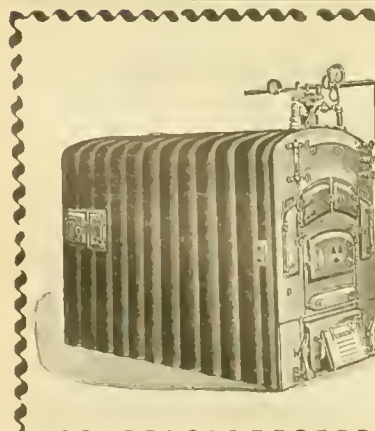
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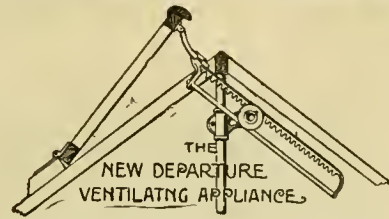


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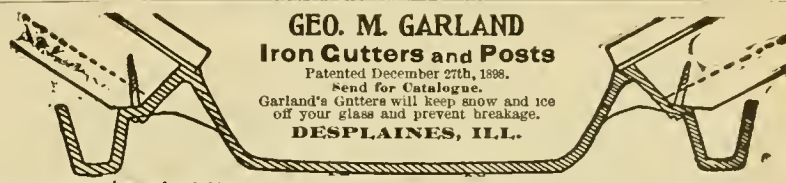
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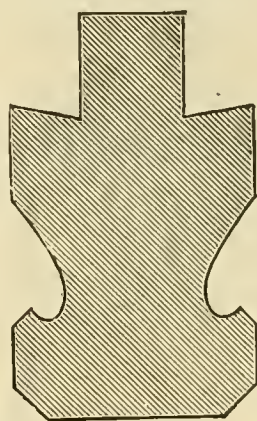
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 OFFICE AND WAREHOUSES: 404, 406, 408, 410, 412 East 34th St.
 WRITE FOR NEW CATALOGUE

Mention The Florists' Exchange when writing.

Announcement

Realizing the fact that Steam and Hot Water Heating Apparatus can be installed at a much lower cost by eliminating a number of the usual though unnecessary expenses, W. H. JOHNSTON (formerly with Hitchings & Co.) begs to announce that he has formed a Company to furnish and install heating apparatus in greenhouses and other buildings.

We propose to do strictly first-class work at prices that will be of interest to you, and ask to be favored with your inquiries for anything in the heating line.

Estimates will be cheerfully furnished.

JOHNSTON HEATING CO.
 Telephone, 1066 Madison Square
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Let me furnish facts why you should give me your Heating Work.
 I have convinced others. Why not you?
 Write for Prices on HEATING SUPPLIES of All Kinds
 Eastern Agent Furman and Kroeschell Boilers

WM. F. LUTTON
 West Side Ave. Station, JERSEY CITY, N. J.

CROWERS

YOU want to have the reputation for PERFECT BLOOMS. YOU want your TRADE TO INCREASE and your REPUTATION to spread. You can secure all this by using NICOTICIDE in your houses, either as a fumigant or spray. It will clean out the pests, no doubt of that, and the experience of years through many years shows it is SAFE. The cost per can is not so low as some other preparations, but the WORK DONE is so great—THAT'S THE POINT! Send along your address and we will see if we cannot make you one of our customers.

The name of OUR preparation is NICOTICIDE.

THE MAXWELL MFG. CO., Department F., LOUISVILLE, KY.

Mention the Florists' Exchange when writing.

Views in Covent Garden Flower and Plant Market, London, Eng.



VIEW THROUGH ONE OF THE MAIN GANGWAYS
STANDS OF MESSRS. EVANS & SONS AND OTHERS
MR. SWEET'S STAND FILLED WITH FLOWERING PLANTS

VIEW FROM ELEVATED POSITION
E. ROCHFORD'S STAND ON THE LEFT; THAT OF MESSRS. CRAGGS,
HARRISONS AND CRAGGS ON THE RIGHT
STANDS OF MESSRS. WILLIAM WHITELEY AND OTHERS

Photos by T. White, Lewisham, Eng.

Views of New York City's Plant Market Corner Canal and West Streets

Showing the interior of the tents in which the plantsmen's products are disposed of; also a scene on the outside of the tents—buyers taking away their purchases.



THE FLORISTS' EXCHANGE

G. F. Stone
Match Exp. Sta.
1906

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

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

Vol. XIX. No. 24

NEW YORK, JUNE 17, 1905

One Dollar Per Year

NEPHROLEPIS PIERSONI ELEGANTISSIMA (The Tarrytown Fern)

We have a grand lot of this in 6-inch and 8-inch pots—fine specimens, for which we have a splendid demand. Retail florists find this one of the best selling plants ever handled, even at the present novelty prices. We can supply 6-inch plants at \$2.00 each, and 8-inch at \$3.00 each. Now is the time to obtain a supply of this in small plants and grow it on for retail trade. We have a splendid lot of very strong, heavy established plants in 2½-inch pots, which, if shifted at once, will make grand stock for 1906. Price, \$50.00 per 100. These are not light rooted runners from bench, but are strong established plants from 2½-inch pots.

- We also offer a lot of**
- PIERSON FERNS** In large sizes for immediate sale for summer decoration. 6-inch at 50c. each; 8-inch at \$1.00 each; 10-inch at \$1.50 to \$2.00 each. Larger specimens, \$3.00 each.
 - NEPHROLEPIS SCOTTII** Fine plants, 6-inch pots. \$1.00 each; 8-inch, \$2.00 each.
 - ADIANTUM CROWEANUM** Extra fine plants, 5-inch pots, extra fine for immediate use or for growing on, \$6.00 per dozen.
 - KENTIAS FOR DECORATING** We have a nice stock of large plants which have been grown in a very low temperature all winter, and consequently are hardy and splendid for decorating, as they will stand a good deal of knocking around. Florists who need large stock for decorating or for hotels, piazzas, etc., in exposed places will find this stock unusually satisfactory. We offer various sizes from \$6.00 to \$15.00 each, according to size.
 - EXTRA LARGE FICUS FOR DECORATING** We have some very large plants, grown in tubs, several plants in a tub, and in consequence are very well furnished, and very bushy, ranging in height from five to ten feet. Splendid for hotels, piazzas, etc., and useful for decorating. \$5.00 to \$10.00 each.
 - DRACAENA INDIVISA** Fine stock in 6-inch pots, the most useful size for florists' use. 50c. each.
 - ENGLISH IVY** Strong plants, 3½-inch pots, \$12.00 per 100.
 - GERANIUMS** Double General Grant, La Favorite, Duc de Montmart, Paunpeck, etc. strong plants, 3½-inch pots, \$8.00 per 100.
 - SALVIA SPLENDENS** (Scarlet Sage). Fine strong plants, \$4.00 per 100.
 - ANTIRRHINUM** (Snapdragon). Separate colors, \$6.00 per 100.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

THIS IS A SAMPLE OF MY GRAFTED STOCK

EXCEPTIONALLY STRONG
HEALTHY PLANTS OF
**Bride, Bridesmaid
Kaiserin, Carnot
and Liberty**
In 2½ Inch and
4 Inch Pots

I can also supply extra fine large plants of the above varieties on their own roots. All my stock is clean and free from disease.

SEND FOR SAMPLES
W. H. ELLIOTT
BRIGHTON, MASS.



Mention The Florists' Exchange when writing.

STARTED CANNAS

(IN LEAF)

- | | | |
|------------------|-----------------|------------------|
| Austria | Premier | Peach Blow |
| Italia | Mme. Crozy | Grand Rouge |
| Queen Charlotte | Paul Marquant | Morning Star |
| Florence Vaughan | Chas. Henderson | Alphonse Bouvier |
| Beaute Poitevine | Fair Persian | Flamingo |
| | Shenandoah | |

¶ We have still a limited quantity of each of the above Standard Varieties, in good condition, and offer them until sold, at 50 cts. per dozen; \$3.50 per 100; \$30.00 per 1000.

STARTED CALADIUMS (ELEPHANT EARS)

75 cts. per dozen; \$5.00 per 100.

¶ See our ad. in issue of June 3, for specially reduced prices on ASPARAGUS PLUMOSUS NANUS and KENTIA SEED. Also COLLECTED ORCHIDS and PURE CULTURE MUSHROOM SPAWN, all of which we can still supply at advertised prices.



CLUCAS & BODDINGTON CO. 131 WEST 23d STREET, N. Y. CITY
Telephone, 1063 Chelsea
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

CHOICE EVERGREENS

Peony and Carnation
Specialists

Large Tree Moving
Landscape Development

COTTAGE GARDENS CO.

Queens, L. I., N. Y.

RUSTIC WORK



VASES, - - - \$4.00 a Pair
WINDOW BOXES, - \$1.00
RUSTIC HANGING BASKETS
 10 in., \$1.00; 12 in., \$1.15; 15 in., \$1.50 Each

NICO-FUME LIQUID ¼ pt., 50c.; pint, \$1.50
 Useful for Spraying and Vaporizing

APHIS PUNK per box 12 rolls, 60c.
 " " per case 12 boxes, \$6.50

SULPHUR 10 lbs., 40c.; 100 lbs., \$3.50
 The best Curative for Mildew

LIBERTY HOSE, ¾ in. in 25 or 50 ft. lengths, 10c. per foot.
SHEEP MANURE \$1.25 per 100 lbs.; \$20.00 per ton.
BAMBOO CANES 6 to 8 feet, \$6.00 per 1000

WM. ELLIOTT & SONS, NEW YORK
 Mention The Florists' Exchange when writing.

XXX SEEDS

PRIMROSE IMPROVED CHINESE
 Finest grown, large-flowering, fringed, single and double, 15 varieties, mixed, 500 seeds \$1.00; half pkt., 50c. Have the varieties separate also.

GIANT DAISY Finest Giants, mixed, 1000 seeds, 25c.

CINERARIA Finest large-flowering dwarf, in best mixture, 1000 seeds, 50c.

PANSY GIANT. The finest large-flowering varieties, critically selected, 5,000 seeds, \$1.00; half pkt., 50c.

500 seeds of "Giant Nime. Ferrett" added to every \$1.00 pkt. of Giant Pansy Seed.

CASH. Extra count of seeds in all packets.

JOHN F. RUPP, Shiremanstown, Pa.
 The Home of Primroses
 Mention The Florists' Exchange when writing.

SEED BAGS

For the Trade

A full line in Manila, Fibre and Laid papers, white, amber and colored. Printing in large or small quantities, one or more colors, with cultural directions and with or without cuts. Samples and estimates on application.

The Brown Bag Filling Machine Co.
 Bag Dept.
FITCHBURG, MASS.
 Mention The Florists' Exchange when writing.

NEVER BEFORE OFFERED

Lilium Longiflorum Multiflorum

Original Japan stock, in fine healthy condition, ready for delivery July, 1905

5 x 7 size, \$25.00 per 1000; \$3.50 per 100
 7 x 9 " 65.00 " 8.00 "
 9 x 11 " 130.00 " 15.00 "

Orders will be accepted as long as stock to arrive, which is very limited, is unold. Terms, Net Cash, 30 days. Write for Special Price on all other Bulbs, Roots, Etc.

F. W. O. SCHMITZ, Prince Bay, N. Y.
 Importer and Exporter

FIRST EARLY SHIPMENTS

JULY—First Harrisll, Freesias.

AUGUST—10-15—Roman Hyacinths.

AUGUST—25—Paper White Narcissus.

SEPTEMBER—1—Lilium Candidum.

Vaughan's Bulbs

SEPTEMBER—15—Hyacinths, Tulips and other Dutch Bulbs.

OCTOBER—Fulls pply of Lillies.

NOVEMBER—15—Spiraea, Lily of the Valley.

DECEMBER—1—New Crop of Tuberoses.

We import by fast steamer one-fourth of our ROMAN HYACINTHS, FREESIAS and PAPER WHITES needed for Thanksgiving and Christmas trade. By doing this we put those kinds of Bulbs in your hands two weeks earlier than if you wait for your entire order from Holland and France.

EASTER, 1906, APRIL 15th.—Order Early. It Helps Us and You

Write or call for SPECIAL IMPORT PRICE LIST—Now Ready

J. C. VAUGHAN, Pres. **VAUGHAN'S SEED STORE** C. CROPP, Sec'y-Treas.
CHICAGO: 84 and 86 Randolph Street **NEW YORK: 14 Barclay Street**
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It is not too late to grow DAHLIA PLANTS

Specially Grown in Outside Frames

It is now a recognized fact that Dahlia growers produce their fine cut flowers and exhibition blooms from plants propagated from selected stock and grown in frames in the open air. We offer the following new cut flower varieties:

CACTUS DAHLIAS		SHOW AND DECORATIVE DAHLIAS	
	Doz.	Doz.	100
Bronnblide, purple	\$1.50	A. D. Livoni, pink	\$0.90
Florodora, deep cardinal	1.50	Apollyon, scarlet	.80
Kreimblide, pink	1.00	Camelliflora, white	.80
Mrs. H. J. Jones, carmine and white	2.50	Emily, rosy lake	.80
Parity, white cactus	1.50	Queen of Yellowa	.80
Volker, yellow	1.50	Red Hnassar, cardinal	.80
		Grand Duke Alexia, white tinted	.80
		Nymphaa, shell-pink	.80
			6.00
GIANT-FLOWERED		NEW SINGLE DAHLIAS	
Mrs. Roosevelt, shell-pink	2.00	Alba Superba, best white	3.50
Enreka, rose	1.00	The Fairy, delicate pink	2.50
John Ellitch, crimson	.80	St. George, canary yellow	1.50
C. W. Brnton, yellow	.80	Ami Barrillet, garnet, purple foliage	1.00
			6.00

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK
 Branch Store, 404 East 34th Street, New York
 Mention the Florists' Exchange when writing.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World
 Introducer and Grower of all the leading Novelties
 Highest Award, International Exhibition, Düsseldorf, 1904. Catalogue free on application.

FRED. ROEMER, Seed Grower
 QUEDLINBURG, GERMANY.

Mention The Florists' Exchange when writing.

CYCLAMEN GIGANTEUM MULTIFL.

Best strains of European specialists. Blood red, white rose, pure white, white with carmine eye, mixed. Above 75c. per 100; \$3.00 per 1000 seeds.
 Daybreak, color, \$2.00 per 100 seeds.
 Papilio, mixed, \$1.00 per 100 seeds.

HENRY PHILIPPS SEED CO., Toledo, Ohio
 Mention the Florists' Exchange when writing.

BURPEE'S SEEDS PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

Mention The Florists' Exchange when writing.

RAWSON'S Arlington Tested Seeds for Florists. Catalogue mailed free.

W. W. RAWSON & CO. Seedsmen,
 12 Faneull Hall Square, BOSTON, MASS.

Mention The Florists' Exchange when writing.

LAWN GRASS SEED in Bulk and Packages
 Dickinsons, Evergreen, and Pine Tree Brands

SPECIAL MIXTURES SEED FOR GOLF GROUNDS

MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO

Mention The Florists' Exchange when writing.

HAVING BEEN AWARDED THE **GRAND PRIZE**
 For My Exhibition of **GLADIOLI** AT THE WORLD'S FAIR

It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Grow's Hybrids and other sorts, the best obtainable.
 Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
 Mention The Florists' Exchange when writing.

50,000 FINE CALLA BULBS READY

The above bulbs are free from disease and are true to measurement.

1 ½ inches diameter	\$4.00 per 100; \$35.00 per 1000
2 inches diameter	5.00 " 45.00 "
2 ½ inches diameter	6.00 " 55.00 "
3 inches diameter	7.50 " 70.00 "

GET YOUR ORDER IN EARLY
 Freight prepaid at the above prices. 250 at 1000 rate. CASH.

A. MITTING, 17 TO 23 KENNAN ST., Santa Cruz, Cal.

Mention The Florists' Exchange when writing.

Clearance Sale PRIZE GLADIOLI Selected Bulbs

250 Bulbs at 1000 Rate.

High-Grade Bulbs at Unprecedented Prices

Table listing various bulb types and prices, including Johnson & Stokes' Special Mixture and Floracraft Prize Mixture.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa. Mention The Florists' Exchange when writing.

Seeds to Sow Now

Primula Sinensis Flmbriata, in separate colors, white, rose, blood-red, blue, 25c. per 100; \$1.00 per 500; \$1.75 per 1000.

FERN SPORES

We make a specialty of FRESH fine Fern Spores in all Florists' best sorts: Adiantums, Aspidiums, Gymnogrammes, Cyrtomium Lastrea, Lomaria, Cibotium, Schiedea, Nephrodium, Nephrolepis, Onychium, Pteris.

ADDRESS H. N. BERGER & CO., 47 Barclay St., New York

WE AIM SUPERIOR STOCK

When making up your catalogue, write us for prices on Summer flowering bulbs. JOHN LEWIS CHILDS, Floral Park, N. Y.

FISCHER'S GRAND PURITY FREESIA

The finest in existence. A magnificent glistening white, of great substance, long strong stems (2 ft.), of large size and very fragrant, very prolific in both flower and bulbs, producing bulbs of immense size when well grown.

R. FISCHER Great Neck L.I., N.Y. Mention the Florists' Exchange when writing.



We are now booking orders for LILIAM HARRISII LILIAM LONGIFLORUM ROMAN HYACINTHS PAPER WHITE NARCISSUS, &c

LILIAM HARRISII

READY JULY READ WHAT CUSTOMERS SAY: PHILADELPHIA, PA., January 17, 1905. H. H. BERGER & CO., 47 Barclay Street, N. Y.

Gentlemen: You shipped us last August 10,000 Lilium Harrisii. Your price was considerably lower than any one else, but we must say that your stock was equally as good.

Special prices larger lots on application FREESIAS READY JULY 1

ADDRESS H. N. BERGER & CO., 47 Barclay St., New York

FREESIAS

GRAND DUCHESS OXALIS, Bermuda Buttercups, Amaryllis Johnsonii and Belladonna, Chlidanthus, etc. Now digging; ready to deliver end of June and July.

Rees & Compere, R. D. No. 1, Long Beach, Cal. Mention the Florists' Exchange when writing.

WARD'S HIGH GRADE Bulbs & Plants RALPH M. WARD & CO 12 W. Broadway, NEW YORK

QUALITY SEEDS BULBS PLANTS SEND FOR CATALOGUE ARTHUR T. BODDINGTON 342 West 14th St., New York.

Fall Bulbs

If you will give us your order before June 30, so that we can import your Bulbs with our own, we can furnish you Superior Bulbs at Low Prices

Florists' Bulbs

Best Grade Only IMPORT ORDERS NOW BOOKED

Write for Prices W. C. BECKERT Allegheny, Pa.

Mention The Florists' Exchange when writing.

Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Plerrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

The American Seed Trade Association meets next week, June 20-22, at Alexandria Bay, N. Y. A large attendance is expected.

A circular of the Department of Agriculture contains the information that the hair worm or "cabbage snake" has been found, after experiments, to be non-poisonous.

NEWPORT, R. I.—Beginning June 12 all the seedsmen, except the George A. Weaver Company, ceased working evenings, and for the present will observe the following store hours: 6.30 a. m. to 6.30 p. m., except Friday and Saturday, when every line of business here keeps open the year around till 9 and 10 o'clock respectively.

ROCKFORD, ILL.—A local newspaper, in a recent issue, contained the following item: "Florist H. W. Buckbee announces he has purchased a wild horse from a Mexican horseman, and the animal is expected to arrive in this city in a few days.

SHEBOYGAN, WIS.—The John H. Allan Seed Company report June 12 as follows: "Regarding present conditions and prospect for pea crop, seeding generally was accomplished under favorable conditions, and although the rainfall in this portion of Wisconsin during the month of May was the heaviest for the last twelve or fourteen years, it was distributed throughout the month, and with cool weather no damage was done until the 4th to 6th of June, when the heaviest rainfall for many years made raging torrents of all streams, carrying away culverts, dams and bridges, and causing great damage and loss.

Clover Seed in the United Kingdom.

The United Kingdom is the largest single market of American clover seed, absorbing about one-third of the total exports. Of this quantity the largest portion is taken in England, but there is a good market for the seed in Belfast, from which point the farmers of northern Ireland are supplied.

IMPORTANT

We are growing 500,000 Roses of the best leading varieties of Hybrid Perpetuals, Hybrid Teas and Climbers in 2 inch pots. Prices low if orders are given now for next Spring delivery.

The Elizabeth Nursery Co. ELIZABETH, N. J. Mention the Florists' Exchange when writing.

Florists' Necessities

Table listing various necessities like Plant Stakes, Cane Stakes, Green Painted Tapering Plant Stakes, Green Painted Heavy or Dahlia Stakes, and Freesia Bulbs.

FREESIA BULBS

California Field Grown. Express prepaid at the following prices: 1/2 to 3/4 in. \$1.25 per 1000, 3/4 to 1 in. \$2.05 per 1000, 1 to 1 1/4 in. \$3.35 per 1000.

H. N. GAGE, Burnett, Cal. Mention The Florists' Exchange when writing.

Asparagus Plumosus Nanus

1905 Crop, equal to greenhouse-grown, \$1.50 per 1000 seeds.

A. ABERCROMBY, Los Angeles, California

Mention the Florists' Exchange when writing.

Catalog Engravings and ILLUSTRATIONS

that print EASILY. That's the kind we make—have been since '73. JAS. M. BRYANT, Horticultural Engraving and Printing 706 Chestnut Street, PHILADELPHIA, PA.

Mention The Florists' Exchange when writing.

COLORED SEED BAGS

HIGH-GRADE WORK . : . LOW PRICES

We manufacture a full line of colored seed bags, for the trade. Send us a list of your requirements and let us quote you prices.

Catalog and Sample Bags upon request HERNDON, LESTER & IVEY CO. (Inc.)

RICHMOND, VA. Mention the Florists' Exchange when writing.

DWARF BOX

3 to 5 in., \$25.00 per 1000; 2 to 4 inches, \$20.00 per 1000.

Specimen Evergreens In fine assortment. Call and see them.

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**
Mention the Florists' Exchange when writing.

RHODODENDRON MAXIMUM

and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety. Herbaceous Perennials by the thousand. See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES North Abington, Mass
Mention the Florists' Exchange when writing.

dier, and is thought to produce the best plant. Chilean seed is regarded by the more advanced farmers as equal to the English, but it contains seeds of dock and dodder. The dodder does not germinate here, but the dock does. Canadian seed is held in high esteem, but the supply is generally small. In fact, Canada imports largely from the United States. German seed is regarded as inferior to English, but is in demand when the price is low. The ordinary French seed is the poorest of all, although some fine qualities are often available. In the estimation of British farmers, clover seed from the United States is better than that from France, but inferior to others. New Zealand seed ranks high, but the supply is small. The American seed is invariably so clean that it is highly esteemed, although small in size, and it finds a ready market.

As matters stand at present, the United States export trade in clover seed has most to fear in the British market from the Chilean product. The farmers of Chile, alive to the profitable nature of clover-seed culture, have ordered special cleaning machinery, constructed in Great Britain, in the hope of getting rid of dock seed, and thus overcoming the main objection to their product. The Chilean exports are steadily growing in volume. A few years ago Great Britain took only 3,000 bags, but this increased to about 12,000 bags in 1903, and 17,000 bags in 1904.

A Belfast seed merchant who has imported large quantities of clover seed, states that American shippers should be careful to observe the "even-weight" system. Many simply fill the bags compactly without weighing. It would be far more satisfactory to consignees in the United Kingdom were all the exporters to follow the example of a Chicago company, which puts, by actual weight, 168 pounds in each bag. This seed is sold here by the hundredweight of 112 pounds, and each bag therefore contains 1½ hundredweight.

The same authority reminds American shippers of clover seed that, while all may be graded as "prime," separate lots will differ in color and in size of grain. British importers, as a rule, buy by sample. It is complained that American shippers are not careful to make shipments and samples agree. For example, some farmers have a preference for a purple seed, while others prefer a lighter color. Knowing these preferences, the importer buys to meet them, and if the shipment does not agree in color or size of grain with sample, he has rightful cause to find fault, even though the shipment be entirely equal in quality to the sample.

This gentleman also expresses the opinion that American dealers do not pay enough attention to the foreign trade, but think too much of the home market. This is all very well when the supply is small and the home demand large, but not when the conditions are reversed.

There must be a systematic and energetic effort to promote the export business or Chilean seed will supplant the American in the British markets. This is too serious a matter for American dealers to pass over lightly. The rapid increase of Chilean exports proves this conclusively. British farmers say that American seed is not as hardy as English and Chilean, but this is probably a prejudice. A leading American shipper made a number of experiments which convinced many British dealers that American seed is quite as hardy as the English, but farmers here still adhere to their old belief.—S. S. Knabenshue, Consul, Belfast, Ireland, in Consular Report.

Continental Seed Report.

We are now very busy with the sowing of annual varieties and transplanting of bi-annual varieties of seeds. Leeks, onions, radishes and lettuces were sown some time ago under very good conditions, and most of them are doing well now. Only those kinds of radishes which were sown a bit late have suffered on account of heavy rains which we had lately, and made the soil very rough and hard.

I may also mention the difficulty which we had in placing our contracts for radishes this season. The big prices obtained last season in growing more encouraged our growers in growing more mangolds this year than usual, so that radishes have been somewhat set aside.

If it was not for the large quantity of radish seeds carried over from these last years by most firms, no doubt such a thing would have affected prices for next season.

Radishes and lettuces are now being transplanted under most favorable weather conditions.

Bi-annual plants have suffered a little from the very cold weather we had for a few days last winter, and we lately feared that cabbages, turnips, swedes, etc., would be but a poor crop. However, the conditions of these have improved these last few weeks, so that a better crop is expected.

A great point with us is the tremendous difficulty we again find in growing dwarf and runner beans. I have already mentioned in this paper that on account of the bad seasons we had these last years for beans, growers will not touch them any more at any price. Well, this year we find the same evil again, and I believe I am not wrong in saying that beans will fetch high prices next season again. Butter beans especially we find impossible to grow, and as these varieties were already very dear last year, no doubt they will stand very high again next season. As I already said in my last report, a great cause of anxiety for the seed growers and merchants will be the onions and leeks. These varieties reached last year such a high price as had not been heard of for years. Now on account of big prices also obtained by the dry onions, a very few have been put in earth for seeds; under such circumstances, our friends will easily realize what the market will be next season.

To give you an idea of prices, I lately saw here a big grower of onion seeds, who assured me he had lately refused a large order of White Spanish onion seeds at the price of 3s. per pound for 1905 crop.

Our friends will have to look sharp at the stocks of onions offered now at low prices, as no doubt they are mostly old seeds. Last year's seeds were very good growth, but it was shocking to see the poor stocks sent out by many a firm, who took a large profit in mixing up the new seeds with the tremendous quantity of old onion seeds left over for a few years. I feel certain the same trick will be repeated again next season, but on a smaller scale, as most of the old stocks were sold out last season.

Mangolds, namely, half sugar varieties, sold very well last season; up to present time prospects for next crop are not bad, and prices might fall down very much on account of the tremendous acreage planted.

In my next report I hope to be able to give an idea of the prospect of harvest, 1905. Let us hope it will be a pretty good one.—French Seeds, in Horticultural Advertiser.

May 25, 1905.

BULBS for FORGING

Lilium Harrisi, Lilium Longiflorum, White Roman Hyacinths, Paper White Narcissus.

Orders hooked now for early delivery.

WEEBER & DON, Seed Growers and Merchants
114 Chambers Street, NEW YORK

EMPEROR

This grand flowering Narcissus will force and sell at Easter. Try it.
\$12.50 per 1000; \$120.00 per 10,000

HUBERT & CO.
N. Le Page, Rep. Mt. Vernon, N. Y.

PANSY SEED

THE JENNINGS STRAIN
of finest American-grown Pansy Seed (New Crop) now ready. Large flowering, finest colors in great variety, none better, by mail, packet of 3000 seeds, 1.00; 1 oz., \$6.00; 3 ozs., \$12.00. Plants in September. Cash with order.

E. B. JENNINGS, Lock Box Southport, Conn.
254.
Grower of the Finest Pansies.
Mention the Florists' Exchange when writing.

HEADQUARTERS FOR FIELD-GROWN ROSES

Clematis, Peonies, Fruit Trees, Small Trees, etc.

WRITE FOR PRICES

W. & T. SMITH COMPANY, GENEVA, N. Y.

Mention The Florists' Exchange when writing.

F. & F. NURSERIES

Wholesale Growers **TREES AND PLANTS** in full assortment Trade Catalogue Free
Mention the Florists' Exchange when writing.

August Rölker & Sons, 31 BARCLAY STREET, New York

Horticultural Importing Agents for Foreign Growers of Florists' Bulbs and Plants, Ornamental Nursery and Fruit Stocks. We supply the trade; send for lists and offers. Orders booked now for Spring and Fall Deliveries.

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Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. W. Kirkpatrick, McKinney, Tex., president; C. L. Watrous, Des Moines, Ia., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

FRUIT PLANTS.—By a recent ruling of the Board of General Appraisers, certain plants, consisting of *Carissa carandas* and *Dillenia speciosa*, were held to be free of duty under paragraph 560, tariff act of 1897, as tropical or semi-tropical fruit plants for purposes of propagation or cultivation.

SCIENTIFIC HORTICULTURE.—I have long wished for a movement toward the more scientific propagation of fruit trees, and let me suggest to my good horticultural friends that money put into the scientific growing of nursery trees would bring far greater results than money used in the introduction of new species and varieties. In fact, more money has been lost in the planting of poor or non-typical trees of standard varieties than has been squandered in planting poor varieties, or unfit kinds for the soil and climate. I am aware of such examples as this on the other hand; one orchard under my observation was planted to lemons, budded over to grape fruit, then to Malta Blood oranges, and at last to Valencia Lates, and is now bearing well to that variety. But there are thousands of orchards with individual trees that do not pay for their irrigation alone. What makes one doubly sure that we need more common-sense propagation of nursery trees is the fact that we find occasionally an orchard in which every tree is doing its full part in bearing uniform crops of typical fruit.—Correspondent Los Angeles (Cal.) Times.

Destroying Currant Worms.

This is the time to watch the currant and gooseberry bushes for the currant worm, which makes its appearance when the fruit is about half formed, about the first week of June with us.

Powdered hellebore dusted over the leaves, from an old fashioned pepper box or a similar contrivance, which can be had from any tin store, is a sure thing to preserve the leaves. Almost the first bite of a leaf that has been dusted ends the life of the worm, and I have often watched them eat and have seen them fall. One dusting will kill every worm on a bush, if a rain does not wash off the dust in a day or so. Hellebore is cheap, and a few cents will buy enough for a good row of bushes and the bushes may safely be dusted with it even when fruit is almost ripe, as it loses its poisonous properties after being exposed a short time to the air. Its cost is so small that it seems hardly necessary to consider a way to save expenses on it, but if desired it can be mixed with flour and be effective enough for all purposes.

Privets from Cuttings.

When the demand for the California privet first sprung up, for its use for hedging, there was a time when it could not be propagated fast enough from hard wood cuttings, and here and there a few parties who thought of rooting them from green wood cuttings in Summer in a greenhouse realized a good profit. The demand for this shrub continues unabated. More plants are required yearly and more and more are produced. Hard wood cuttings set out in Spring is still the method employed to raise the greater number of plants required, but there may be those who will be glad to have their attention called to the green wood cuttings. It is now time to make such cuttings, using the half-ripened wood for the purpose. Practically every one will root, just as is the case with those of hard wood.

While on the subject of soft wood cuttings let me mention that there are many other shrubs now with wood sufficiently mature to make cuttings from. In many cases cuttings of them, rooted now and potted on as they require it, will be good sized plants by Fall, ready for selling in many cases.

Red Birch.

As the seeds of the red birch are ripe now and should be sown at once, when there will be nice plants result by Fall, it is opportune to call attention to this tree. It is the one which grows along river banks, and which is noticeable because of its shaggy red bark. It is the red bark which gives it its character, and makes appropriate its name—red birch. In one way the name is misleading. More than one nurseryman's customers have bought this tree, believing from its name they were getting a red-leaved tree. There are so many blood-leaved trees called red that the mistake is excusable. Botanically, it is *Betula rubra*; some works have it *B. nigra*. It is abundant along the river and creek banks in many parts of Pennsylvania, and beautifies many streams by its branches bending over them and by its shaggy red bark.

It is the only birch of the many native sorts which ripens its seed in Spring. All the others perfect theirs in late Summer. As stated, seeds of the red birch sown as soon as ripe, give nice plants the same season, as do the early ripening elms and maples.



FLOWERS OF CORNUS KOUSA (JAPANESE DOGWOOD)

Photo by John F. Johnston

Magnolia Varieties.

Reference has been made before in this department to the similarity in color of many of the magnolias sold under the names of *Soulangeana*, *speciosa*, *Alexandrina* and others. And to add to this is the fact that, what is one nurseryman's *speciosa* is another one's *Soulangeana*. The fact is that there is no well defined type of any of these excepting the old original *Soulangeana*. This magnolia itself is a hybrid, and when raised from seeds, as it often is, it cannot be depended on to come exactly as it was, and in this way we get all manner of light variations in color and in shape and size of flower. So far as representatives of the various sorts mentioned have come under my notice, there has been no marked difference; no difference calling for another name than *M. Soulangeana*. On a gentleman's grounds near here there is a tree of large size, which must have been planted many years ago, the flowers of which are almost white; so nearly are they without color that it could be considered one of the Chinese white at a little distance. And there are other large trees about of a distinct color from *M. Soulangeana*, for which they were planted.

As mentioned above, the whole of the named magnolias that have come before me of this type could be passed as *Soulangeana*, there being nothing of moment to merit a separate naming. The large tree, nearly white, as aforesaid, would make a distinct one, and one worth propagating.

As magnolias flower in the course of a few years, the raising of seedlings in the hope of getting new sorts is most interesting. *M. Soulangeana* growing near a Lenni should give seeds of value for the purpose. If a *Soulangeana* in flower but a later bloomer, to escape the late frosts, could be obtained, it would be a prize.

Handsome Flowered Thorns.

Despite a too common opinion that hawthorns do not succeed well here, wherever planted, the results prove just the opposite, and now that they are in bloom there are beautiful sights before those who possess the bushes. It is with this thorn and its varieties, much as it is with the *laburnum*. In its native home it does not meet with the heat and Summer dryness it does here. Given coolness and moisture, or as nearly as possible, there is no trouble in growing hawthorns. Some of the best of those in these parts are found planted in partly shaded places, where it is cooler both overhead and at the roots than it is in open places. There is on all establishments a situation more shaded than common, and this will be the spot for a hawthorn.

Hawthorns of the pink and the scarlet type are preferred for display, and they are, indeed, beautiful. The single and the double-flowered pink, the scarlet in both the common and the Paul's, are considered most handsome. For old association sake, as well as for its pure white flowers, the common wild hawthorn of Europe, *Crataegus oxyacantha*, is valued. The *oxyacantha*, as well as all the species, are increased by seeds and by cuttings, but the varietal forms must be budded. Fortunately, they bud readily, and there is no trouble in getting a supply of them. It has been customary to use the common *C. oxyacantha* stock for all its varieties, but as in some situations it has been subject to the attacks of a borer, the use of the stocks of our native sorts instead has been suggested. These are borer proof, but whether the buds of *C. oxyacantha* varieties would be as well suited on those stocks remains to be seen. In all probability, they would. JOSEPH MEEHAN.

Japanese Dogwood (*Cornus Kousa*).

If for no other reason than that this small tree flowers during the latter part of June, when shrubs in bloom are getting scarce, it should be extensively planted—much more so than it is. The chief reason, however, for its recommendation lies in its great beauty when in blossom. *Cornus kousa* is the Japanese representative of our well-known native dogwood (*C. florida*), and a good companion it forms. Much of the beauty of either would probably be lost if they blossomed at the same time, but the Japanese dogwood resigns the position of priority to our native species, and expands its floral envelopes soon after the other has ceased to flower, so that no rivalry exists.

What are usually termed the flowers are botanically involucre. The same remark likewise applies to *C. florida* and some others. They are produced in large numbers, of a creamy white color, with four bracts, which are longer and sharper pointed than those of *C. florida*. Blossoming when the leaves are fully expanded, the beauty of this tree is considerably enhanced, as the flowers show up vividly in their setting of lustrous green foliage.

It is quite hardy as far north as Massachusetts, and it seems strange that a plant of such beauty should be so seldom seen in cultivation. This plant is sometimes known under the name of *Ben-*

thamia japonica.
Glen Cove, L. I.

JOHN F. JOHNSTON.

FRUIT UNDER GLASS.

Grapes—The Late House.

Probably after the early graperies the next most important is the late house. Take, for instance, early and midseason fruit; no matter how good the finish is, it is a difficult matter to keep the fruit hanging in good condition any great length of time after it is thoroughly ripe. This can easily be understood when we consider the extreme temperatures to be contended with. I often look back and picture to myself the magnificent collections of grapes gotten together on the other side of the Atlantic, particularly at the September exhibitions. I think one of the finest displays of grapes I ever had the pleasure of witnessing was in Edinburgh, Scotland. But in their moderate climate there, fruit can be kept in fine condition a long time after being ripe; in fact, it is their midseason fruit that they depend on to a great degree for the exhibition boards in the Fall. Here, with us, our late fruit will be making rapid headway now.

There are two or three things that might be considered at this time. Of course, in this climate, late grapes are produced with little fire heat—practically none after about the first week in June, as a rule, until Fall. I have found, after dropping the fires, one thing must be watched closely; that is, mildew. If that once gets into a graperie it will spread very rapidly, especially where the fruit houses are any way low. Also, in some sections, mildew is more prevalent than in others. When one anticipates being troubled with mildew, it is best to apply a remedy before the evil starts. I have found placing a few tins, say a foot square, along the pipes, and keeping a little sulphur on them, is a good preventive against this disease. In a week or ten days the sulphur will have lost its strength somewhat; replace it afresh. This is a simple remedy, but a good one, against mildew.

Grapes that are intended to hang long in the Fall should be fairly well thinned; otherwise the moisture is apt to lodge on them and decay will follow. As a rule, the late graperie border will need lots of water, but having air on both top and bottom during hot weather is the cause of this.

Assuming the border is full of roots, with a heavy crop on, feeding will be in order. Cow manure made into a liquid is good; in fact, one of the best fertilizers with which to water the border. However, I do not approve of using that material wholly; a change of food is beneficial. Thomson's vine manure or ichthemic guano, applied now and then, will afford a change. There is something about ichthemic guano that the plants like. I never saw roots travel after anything more rapidly than they do after this fertilizer. A top dressing of this guano means a network of roots to the surface in a week or ten days after being applied, a proof that there is something in this fertilizer the plants or vines are after. One more thing may be mentioned in regard to the late graperie: When there is no fire heat, I am a firm believer in leaving on a crack of air. Never close the ventilators tight when there is no artificial heat on, or there will be too much condensation.

WM. TURNER.

ROSE STOCK

GRAFTED KILLARNEY

I had ordered material for the erection of several new rose houses this Spring. Recent unavoidable events have caused me to change my plans. This leaves me with several thousand very desirable grafted roses on hand which I now offer for sale at a bargain. This lot includes **KILLARNEY, METEOR** and **BRIDESMAID** in 3 in. pots, first-class stock, intended for my own use. These roses are ready for immediate planting, and of healthy and vigorous growth. Also ready for immediate shipment, grafted **Bride, Chatenay, Ivory, Golden Gate, La Detroit, Testout** and **Morgan**. I have in own-root stock **American Beauty, Chatenay, Bridesmaid, Bride, Meteor, Golden Gate, Ivory** and **Uncle John**. Several thousand home-grown, dormant Killarney to offer this Fall.

Write for Prices.

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The following choice varieties of **CHRYSANTHEMUMS**, rooted cuttings, are now ready; healthy, vigorous, well-rooted plants:

Enguehard, Duckham, Marie Liger, Ethelyn, Alice Byron, Polly Rose, Willowbrook, Wanamaker, Robinson, MacArthur, Chadwick, Glory of Pacific, Pink Ivory, J. K. Shaw, Adela, Maud Dean, Lavender Queen, Harriott, Monrovia, Georgiana Pitcher, Appleton, Golden Gate, Bonnaffon, Trenor L. Park, Cullingfordii and Kate Broomhead.

CHRYSANTHEMUMS

WM. DUCKHAM, MRS. ROBINSON, BALFOUR, MRS. J. JONES, and assorted commercial varieties. \$2.00 per 100; \$20.00 per 1000, from 2 1/4 inch pots. Cash please.

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New and standard varieties. Fine plants now ready, 2 1/2 inch pots. Write for list and prices.

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Rooted Cuttings from cool grown stock of the following varieties: American Beauty, globular, dark pink; Dr. Enguehard, \$1.00 per 100, Merry Monarch, white and yellow; Willowbrook, Polly Rose, Pacific, R. Halliday, Ivory, Nellie Pickett, Bonnaffon, Maud Dean, \$1.50 per 100; \$12.50 per 1000 Cash with order, please.

C. F. NEIPP, Aqueduct, L.I., N.Y.
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25,000 NICE SOFT CHRYSANTHEMUMS

from 2 1/4 in. pots, not leftover stock, at \$2.50 per 100; 500 plants, our selection, for \$10.00; Maud Dean, Glory of Pacific, M. Liger, Mrs. Mardock, Carlington, A. J. Balfour, Ivory, T. Eaton, Polly Rose, Bonnaffon, Appleton, Shrimpton, K. Broomhead, Opah, Carrie, Mixed Pompon kinds.

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BEST COMMERCIAL VARIETIES Per 100
Strong Plants, 2 1/4 in. \$2.00
Vinca Var., R. C., \$1.00; 2 1/2 in. 2.50
Violet, Princess Wales, R. C. 1.00
Carnation, R. C. \$1.50 to 3.00

Write for List at once.

SMITH & GANNETT, Geneva, N. Y.

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10 named Hardy Pompons, also the following: Helen Bloodgood, Col. D. Appleton, Edgar Sanders, J. G. Whilden, Mrs. Chamberlain, O. P. Bassett, Glory of Pacific, Mrs. Perrine, Estelle, Major Bonnaffon, Dr. Enguehard, \$2.50 per 100.

STOKESIA CYANEA, 2 in. pots, \$2.00 per 100, **HELIOTROPES, HARDY PHLOX, FUCHSIAS**, \$2.50 per 100.

SALVIAS, \$2.00 per 100. **FLOWERING BEGONIAS**, \$2.50 per 100.

MOON VINES, 2 1/2 in., \$2.50; 4 in., \$10.00 per 100. Cash accompany order.

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From 2 1/4 Inch Pots. Ready Now.

This stock is in fine growing condition, strong and healthy. Can ship the day order is received.

	Per 100	Per 1000		Per 100	Per 1000
Polly Rose	\$2.00	\$20.00	Major Bonnaffon	\$2.00	\$18.00
Glory of Pacific	2.00	18.00	Timothy Eaton	2.50	22.00
Halliday	2.50	22.00	Willowbrook	2.50	22.50

10,000 COLEUS Golden Bedder, Verschaffeltii and Fancy Mixed, at \$2.00 per 100, from 2 1/4 inch pots.

5,000 SALVIAS, 3 in., at \$3.00 per 100. Cash with the order.

H. N. EATON, Manager, So. Sudbury, Mass.
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2 I-4 INCH POTS

Our stock plants have never been stored under the bench but have been grown cool in one of our best three-quarter span houses since flowers were cut. We offer short, stocky plants, in perfect condition.

Pink , Per 100	Yellow , Per 100	White , Per 100	White , Per 100
Wm. Duckham, \$5.00	Col. D. Appleton, 2.50	Convention Hall, \$3.00	Polly Rose, \$2.00
A. J. Balfour, 3.00	O. J. Salter, 4.00	Ivory, 2.00	Timothy Eaton, 2.50
Dr. Enguehard, 4.00	Crema, 2.00	Lady Fitzgram, 2.00	White Bonnaffon, 2.00
Glory of Pacific, 2.00	Henry Sinclair, 2.50	Mme. Bergman, 2.50	White Maud Dean, 4.00
Maud Dean, 2.50	Major Bonnaffon, 2.00	Alice Byron, 2.50	
Mlle. M. Liger, 3.00	October Sunshine, 2.00	Nellie Pickett, 2.50	Crimson
Mrs. Coombes, 2.50	Yellow Eaton, 5.00	Mrs. H. Robinson, 2.50	Black Hawk, 2.00
Nemesis, 2.00		Mrs. Jerome Jones, 3.00	Dazzler, 3.00
Pink Ivory, 2.00		Mutual Friend, 2.00	John Shrimpton, 2.50

EDW. J. TAYLOR, SOUTHPORT, CT.
Mention the Florists' Exchange when writing.

50,000 Chrysanthemums

Dr. Enguehard, 2 1/4 in. pots, \$3.50 per 100 Rooted cuttings, \$2.50 per 100
Amorita, \$3.50 per 100. Rooted cuttings, \$2.50 per 100.

Golden Wedding, Ivory, Appleton, Jerome Jones, Pacific, Polly Rose, Willow Brook, Robinson, Maud Dean, Bonnaffon, white and yellow, 2 1/4 in. pots, \$2.50 per 100; \$20.00 per 1000. Rooted cuttings, \$12.00 per 1000.

50,000 ROSES

Kaiserin, La France, Perle, Hermosa, Clothilde Souperet, Cochet (pink and white), Ivory, 3 in. pots, \$4.50 per 100; \$40.00 per 1000.

5,000 MOON VINES

3-in. pots, \$5.00 per 100; 2 1/4-in., \$3.50 per 100.

10,000 COLEUS

\$1.50 per 100; \$20.00 per 1000

SIX BEST BEDDING VARIETIES

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LOOKING FOR A BUYER

of the very finest kinds, including Cheltoni, Guy Hamilton, W. Duckham, Donald McLeod, and many others.

Why not write me? I can save you money on Chrysanthemums.

CHARLES H. TOTTY, Madison, N. J.

Mention the Florists' Exchange when writing.

JUST ABOUT NOW.
For \$5.00 I will send you 100 assorted **CHRYSANTHEMUM**

Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass.
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CHRYSANTHEMUMS

EASIGOLD This year's introduction, and best early yellow. You will want a house of it next year. Strong plants from sand or soil, \$8.00 per 100; \$60.00 per 1000.

WHITE AND PINK IVORY From soil, \$2.00 per 100.

BONNAFFON From soil, \$2.00 per 100.

BABY A few plants of this variety, so successfully grown by Robert Craig last season, \$5.00 per 100.

RIVERSIDE GREENHOUSES

AUBURNOALE, MASS.

Mention the Florists' Exchange when writing.

SURPLUS Chrysanthemums

Merry Christmas, Wm. Duckham, Dr. Enguehard, Sinclair, Bonnaffon, Ivory, Pink Ivory, Maud Dean, Alice Byron, Philadelphia, J. Jones, Glory of Pacific, Polly Rose, Pink Jones. Out of pots, \$3.00 per 100 if a number of varieties are taken.

H. W. FIELD, Northampton, Mass.

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American Association of Nurserymen.

The thirtieth annual meeting of the American Association of Nurserymen was held at West Baden, Ind., June 14, 15 and 16. About 200 members attended the opening session. President E. W. Kirkpatrick, in his annual address, urged the necessity for harmonious action and a spirit of fraternity among nurserymen, and spoke in terms of praise of editors and reporters who are doing much to upbuild the great agriculture of the country, saying: "We ought to encourage every man that has anything to do with any kind of journal that is intended to forward our work; we ought to encourage them with our patronage and by responding to their calls upon us, and I think we will do so in the future more than we have in the past."

The treasurer's report showed a balance on hand of over \$2,500.

A motion was passed that a committee be appointed to confer with the American Seed Trade Association regarding revision of postal laws.

Harry L. Bird, of Michigan, read a paper on "The Cost of a Tree," showing methods by which such cost can be arrived at, taking all items into consideration, from cultivation of ground and planting to final carting away. In discussion, several members advocated the adoption of such a system. Charles Maloy read a paper on "Low Prices of Ornamental Stock." Discussion was participated in by Mr. Kerr, of Texas, urging associated effort to raise the price of nursery stock; also by Professor John Craig, of Cornell, who stated it was first necessary to arrive at cost of raising stock before price could be reasonably fixed. G. L. Taber, of Florida, contributed a paper on "Best Methods of Improving Standards in Trees and Fruits," saying that while theoretically a range of specifications might be adopted applying to each grade, practical results would show different interpretations by individuals, and each grower should set his own standard as high as possible.

T. V. Munson, of Texas, presented a paper on grape growing, illustrating his methods of trellising vines. Wednesday evening was devoted to stereopticon lectures by J. Horace McFarland on "A Tree Garden to Last a Thousand Years," and by Dr. George T. Moore, United States Department of Agriculture, on "Soil Inoculation." E. J. West Baden, Ind.

GOVERNMENT STARTS NURSERIES.—As a part of its scientific system for reclaiming the vast arid regions of the West, the United States Bureau of Forestry has recently started five gigantic nurseries for the propagation of trees suitable, principally, to the barren mountain sides surrounding those regions. Thousands of small trees are being planted in these nurseries, later to be transplanted in the more arid regions, where it is hoped through their agency to coax rain where rain is almost unknown. By this system it is hoped also to relieve the stress of constant cutting in the more densely wooded districts of the country, where progress has already wiped out many of the finer trees and reduced them into the finished product for the market. Sooner or later what is now wooded land will become an arid region unless scientific control steps in and keeps enough timber standing to attract rain.—Chicago Daily News.

Uses of Hardy Shrubs for Forcing.

(Concluded from page 761.)

Among the prunuses that are worthy of individual note are *Prunus triloba flora plena* and *Prunus pseudo-cerasus*. The former is certainly one of the most handsome of the plum section, and much more distinct than its near ally, *P. Amygdalus nanus*; its large double flowers are produced so profusely that hardly a leaf is discernible. It should only be pruned immediately after flowering, the growth resulting from this being allowed to develop, as this is the wood that will produce flowers the following season. *P. pseudo-cerasus* is a glorious cherry, indeed one of the most beautiful introductions we have had from Japan, the land of flowers. The varieties Anthony Waterer and J. H. Veitch are the best, and flower very freely when at quite a small size, which is an important point.

The lilac is unquestionably one of the most popular of shrubs for forcing and may be had in bloom early in January, its fragrant blossoms being welcome from then until they appear naturally and are sold on the street for 10c. a bunch.

The spiraeas are an extensive family and a selection for the florist is easily made; the most popular, I think, are *S. confusa*, *S. arguta*, *S. Van Houttei*, and *S. prunifolia*, fl. pl., all bearing graceful racemes of white flowers admirably suited for wreath or bouquet work.

Another shrub which I think, the florist could make use of is *Forsythia suspensa*. It blooms early in the year anyhow, and, subjected to a little heat, could be had much earlier. When in the form of a standard it makes a striking picture, with its lateral shoots hanging around the main stem and forming quite a fountain of yellow flowers.

The kerrias, in both the single and double forms, are well worth including, as they take up so little room. A plant which makes a suitable companion for the foregoing, and which could be well called the "white kerria," is *Rhodotyus kerrioides*.

There are two species of chionanthus that are highly commendable for gentle forcing, viz., the North American species *virginica*, and the Japanese representative *retusus*. The fringe trees, as they are called, are

very charming when in pots. The American species is, I think, the better of the two.

The presence of the following two hardy heaths in winter would attract attention, especially among the Scotch fraternity; though they will hardly compete with the Cape heaths. *Erica-carnea* and *E. mediterranea* make pretty subjects for pot work. When lifted from the open ground they should be potted very firm and well watered, placing them in a cool temperature, as they require little forcing to get them to flower in February and March.

Among the things that are best grown permanently in pots the following would prove useful in March and April, viz.: *Magnollas stellata* and *purpurea*, *Loropetalum chinense*, a plant bearing resemblance to the fringe tree, but belonging to the hamamelis family. Nice medium-sized plants of these brought gradually by gentle heat into bloom would surely make attractive features. Some of the tree peonies, *Moutan* and the many varieties that have appeared in recent years, would readily secure admirers and buyers.

Some of the little Japanese maples brought along in a little heat would be of great ornamental value, with their beautiful and graceful foliage, giving with some of the best of stove plants. The red cut-leaf maple, *Acer polymorphum dissectum atropurpureum* and *dissectum*, green, are truly a worthy pair.



FLOWERING BRANCH OF XANTHOCERAS SORBIFLORA
Photo by J. F. Johnston

Their Use in Public Conservatories.

In conclusion, I would like to comment on the worthy use of hardy shrubs for public conservatories. Here, at least, there need be no restriction as to what will give the greatest delight to the public taste. During my stay at the Botanic Gardens, Kew, I had the opportunity of seeing what could be done in this direction, and I can here say that the display made by the many forced things in the shrub line drew the masses from the metropolis in no uncertain way, and year by year it was looked forward to with expectation. The same thing might be said of this city's public conservatories. But to speak frankly, in order that the public fully realize what can be done in this respect, the ratio of excellence will need to be raised higher in every sense, for although it may be a color scheme to harmony, even the uninitiated tire of seeing dirty green pots and plants that do not do justice to the species. If horticulture is anything, it is a moral educator, and if the public is to gain any higher, purer motives from this source, let there be seen the fundamental principle—cleanliness—for it is often quoted this is next to godliness. What an inducement it would be to the public to invest a nickel on a car fare to pay frequent visits to the city's conservatory while Winter has still a firm hold on the outside world if groups of the aforesaid plants were on view!

Of late years, the various forms of clematis, especially the Jackmanni hybrids, have been grown largely under glass for early flowering, not only in the shape of large specimens but plants in only 5-inch pots bearing several large showy flowers. A group of these in March and April would certainly speak for themselves, while magnolias and tree peonies, pyruses and prunuses, rhododendrons and wistarias would form scenes of loveliness which would call forth admiration and praise from all, and would do much to raise horticulture in the eyes of the masses and infuse a sense of gratitude for the many charming creations the floral world dispenses in the hand of the horticulturist whose position is to work with and aid nature. The art itself is nature.

AMONG THE GROWERS.

Henry A. Dreer, Inc., Nurseries, Riverton, N. J.

There are always a great many things to interest the visitor to this large establishment, and at this season of the year, when everything outside is in full growth, one can spend a whole day and go away well repaid. The perennial department is very interesting at this time, the most noticeable being the portion set apart for trials. Here are seen beds containing short rows of new things on trial, and rows of standard sorts, all arranged in species, with many varieties of that species growing side by side. Thus one is able to select those most desirable and make a comparison, which cannot be done so well in the field.

In full bloom just now are *Lychnis chalcedonica*, *Delphinium belladonna*, *Dianthus Napoleon III.*, many varieties of *œnotheras*; also a good collection of hardy pinks. The planting out of perennials is still going on. We noticed blocks of 110,000 delphiniums in several varieties, a block of 150,000 phlox in all the leading kinds, and many other species. Following the custom of this firm, this stock will all be lifted and potted in the Fall—a system which has met with great success and found much favor with planters. The increase of this hardy plant department has been so great, that recently a 10-acre additional piece of ground had to be acquired. This is planted with peonies, hollyhocks and hardy roses, and now, to get more room, another piece of woodland is being broken up.

Under glass now the order is to move plants and effect the general Summer clean-up. The range of short-span houses, that were filled with roses in Spring, now contain a grand lot of kentias. First we see a block of 1,800 *K. Fosteriana* in 7-inch tubs, three plants to a tub. These are a grand lot, the plants ranging 30 inches and upward in height, in fine condition—a grand assortment for decorative work. Next to these is a very large block of *K. Belmoreana*, specimen plants in 7 and 8-inch pots. It would indeed be difficult to duplicate this lot. Then come fine larger plants, both single and made up. All the smaller commercial sizes are in splendid condition; in fact, the palms never before showed to better advantage. Of the quantity, one can form an idea when is seen a block of 57,000 cocos just potted up, small kentias in even larger blocks, and seed just sprouting in pots and flats all around.

In the fern departments the small plants are just now being put out in frames for the Summer. These are to be seen by the millions. A very large stock of *Nephrolepis Scottii* is being worked up, one bench alone having produced 38,000 runners since January. Of this fern there is a block now in 6-inch pots that will make splendid plants in two months. The new *Nephrolepis Barrowsii* is well thought of, and a good stock of it is being worked up for Fall trade.

The aquatic department has done a wonderful business this season: in fact, the tender varieties are yet being shipped.

Orders are still so numerous that the packing benches are filled every day with a large variety of stock. DAVID RUST.

THE NETHERLANDS SOCIETY OF HORTICULTURE AND BOTANY.—At the May meeting of this society, held at Amsterdam, Holland, the following awards were made: First-class certificate to *Iris X Juno*, a new plant obtained from seed by P. W. Voet, horticulturist, Overveen. Flowers gray, tinted violet, veined with brownish purple; excellent form. *Iris X Pollux*, seedling from the same exhibitor; flowers violet, with a mixture of gray and black, of excellent form; very floriferous. *Cineraria hybrida nana alba*, from Sluis & Groot, seedsmen, Enkhuizen; flowers pure white, of good substance, plant dwarf and compact. *Cineraria hybrida* (cactus formed), from the same house; flowers of divers colors, petals narrow and prettily curled; plant dwarf and decorative. *Rhododendron hybridum Aalsmeers Roem*, a new plant, shown by M. K. Maarse, Dzn. Jr., horticulturist, Aalsmeer; flowers deep rose; very floriferous, and very hardy. *Trollius Fire Globe*, a new plant obtained from seed by M. H. J. de Lang, horticulturist, Oegstgeest. *Lælia purpurata maxima*, exhibited by M. J. G. Ballego, horticulturist, Leyden; an excellent variety, with flowers larger than those of the type.

A silver gilt medal was awarded to Messrs. Sluis & Groot for a collection of *Cineraria hybrida* of various diverse forms. Honorable mention to M. J. G. Ballego for a collection of flowers of *Odontoglossum crispum*. A. J. VAN LAREN, Secretary.

Flowering Branch of Xanthoceras Sorbifolia.

Without a doubt this is one of the most charming of flowering shrubs, oftentimes during May plants being literally covered with a wealth of delicate white blossoms, on short, slender stalks, arranged in racemes, and with each petal bearing at its base a blotch of deep yellowish red. The leaves are odd or alternate pinnate.

Occasional reference has been made to this rare Chinese shrub in the columns of *The Florists' Exchange* (see issue of March 26, 1904), but being such a beautiful shrub when in flower, it ought to receive much more attention than it does.

Glen Cove, L. I. JOHN F. JOHNSTON.

A. B. DAVIS & SON, Carnation Specialists

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Mention The Florists' Exchange when writing.

JOSEPH HEACOCK WYNCOTE
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Grower of

**KENTIA BELMOREANA AND
KENTIA FORSTERIANA**

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CARNATIONS

WM. SWAYNE, KENNETT SQUARE, PA.

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A LITTLE LOT

of early propagated Carollan Plants, now in 2 in. and 2½ in. pots, at bargain price to close. 250 Harlowarden, 300 Napinne, 175 Fair Maid, 100 Eclipse, 100 Cardinal, 100 Aureole. Over 900 plants in good condition. Worth at least \$30. The first one who gets a check for \$20 to us takes the lot.

RIVERSIDE GREENHOUSES
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150,000 Field-Grown

CARNATIONS

We are now booking orders for same.

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The Lewis Conservatories

MARLBORO, MASS.

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Carnations

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CHICAGO CARNATION CO.

JOLIET, ILL.

Ours plants are now in the field.

Write us for Fall delivery.

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Carnations, Cannas, etc.

SPEAK QUICK

20,000 fine, strong Carnation Plants, from Ontario, ready to plant, now hardened off outside: Queen Louise, \$20.00 per 1000; Joost, \$15.00 per 1000; Prosperity, \$2.00 per 100. 100 or over at 1000 rates.

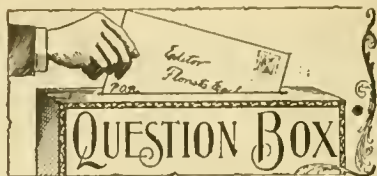
10,000 fine potted Cannas, well established, price, \$1.00 per doz.; \$6.00 per 100. Shenandoah, David Harum, Crimson Beldier, Mme. Crozy, Florence Vaughan, Pennsylvania, Chas. Henderson, Duke Marlborough, Souy, d'A. Crozy, Rose-maur Pink, Alsace, and Gloria. 2½ ft.; Gift Edge, for outside row; Black Beauty, 8c.

Dormant Cannas for mailing, not named, \$1.50 per 100.

Cash, please, or O. O. D.

BENJ. CONNELL, West Grove, Pa

Mention The Florists' Exchange when writing.



PLANT FOR NAME, H. C.—This is the common laburnum, for notes concerning which see "Situation for the Laburnum" in the Nursery Department, June 3 issue.

(184) How many feet of 2-inch pipe will it require to heat a mushroom house 35 feet long, 11 feet wide and 10½ feet high, surrounded by 1 foot brick wall? I prefer to use hot water. Six shelves each 4 feet wide and 1 foot deep will be the space required for the crop. Can you recommend a furnace that would do well for this house? Penna. C. H. A.

—I would advise a hot-water system. Put in nine lines of 2-inch pipe on the 35-foot run. These can be divided into three coils of three pipes each, each coil to be so arranged that there will be one flow and two returns. Place a full opening 2-inch gate valve on each flow to control the temperature. Allow the pipes a good rise, say, at least, in this case, of one inch in 8 feet. Get any good reliable greenhouse boiler of 300 feet 4-inch pipe capacity, and easy firing, and economy of fuel will result. All the various boiler-makers advertising in The Florists' Exchange make boilers that will suit your purpose. U. G. SCOLLAY.

Storing Cut Fern Fronds.

(185) Would fancy and dagger ferns, gathered during July and August, keep well in cold storage till Midwinter? W. H. H.

—The ferns would be too green in July or August for picking and putting in cold storage; better wait until later in the Fall before gathering them.

Fertilizer for Heliotrope.

(186) What kind of fertilizer is good for heliotrope? The soil is rather poor. Are Canada hard wood ashes good? N. P.

—Pulverized sheep manure will be preferable to hard-wood ashes. Make a weak liquid from the manure and apply twice a week, or put a mulch of the manure on the soil.

Snapdragons.

(187) Kindly give the proper temperature day and night for snapdragons in Winter. C. M. W.

—The Winter temperature for snapdragons, presuming they are in growth, should range from 50 at night to 10 or 12 degrees higher through the day.

Please tell me how to grow antirrhinum (snapdragon). They were started March 25 and pricked out once; then planted outside. The plants are doing well and are from 5 to 7 inches high. I should like to have them for Thanksgiving or Christmas. When should I head back the plants in order to have them come along just right, and should I bench them now? The house in which I will put them is run at from 58 to 68 or 70 degrees in the Fall or Winter. H. P.

—This subject has been most thoroughly covered in these columns by Mr. Timme. Below we give an extract from one of his letters which will no doubt afford all the desired information:

"The plants will attain quite a size during the Summer, but the office of this first growth is only to fully develop the plant and prepare it for a vigorous second growth, which starts in the form of very stout shoots from the base of the stem, or, rather, the crown of the roots. It is this second growth which we depend upon as the bringer of money in the growing of snapdragons for profit, and only plants pretty far advanced, as these will be at the end of Summer, send up from their base the right kind of sturdy shoots which, under glass, will develop into those superb spikes of bright-hued flowers on strong stems, 5 and 6 feet long. If they are wanted as early as

Christmas, the plants must be benched early in August. Any fairly good soil in the bench will do. They should be planted rather deep, at distances of 12 or 14 inches each way. When the second, a much stronger growth, is about 6 inches high, the first, or Summer growth, is cut away clean, as are also all straggling side branches and undergrowth appearing later.

"As the plants advance in their growth plenty of water must be given, and the temperature for this holiday crop should not sink much below that which was provided by nature in September and October, when the start was made. Some of the now rapidly growing stems may need stakes; all of them must be kept growing as straight as poplars. This Christmas crop, although fine and good property, indeed, will, in point of quality, be surpassed by snapdragons kept in frames until late in the Fall, then benched and kept until February in a temperature just above freezing point, after which a gradual rise up to not higher than 50 degrees is given, by which course the warmer days of Spring will be reached and further firing discontinued. As the days become warmer, frequent watering and ample ventilation will be necessary."

Remedy for Rose Bugs.

(188) Will you kindly advise me the best remedy for the rose bugs. This year they came by the hundreds, and in a few days ate all the roses and all my grapes. A. A. A.

—If this is the true rose bug the only remedy that can be relied upon to do the business is to collect the bugs every day and destroy them. A pail of hot water is a handy place in which to drop them after they are gathered from the bushes.

Mignonette for Christmas.

(189) How early should mignonette seed be sown to have the plants in bloom at Christmas? What soil and temperature should be afforded? BEGINNER.

—Sow the mignonette seed early in July and keep the house as cool as possible all Summer. The best soil is a well enriched, heavy loam.

Lilacs During Summer.

(190) I have forcing lilac (Charles X. and Marie Legraye) left over from last Easter. What treatment do they require during the Summer months? BEGINNER.

—Plant the lilacs outdoors, and see that they are well supplied with water during dry weather. They should have two years' growth outdoors (three years is better) before being forced again.

ROSES

**BRIDE, BRIDESMAID,
IVORY, GOLDEN GATE,
MME. ABEL CHATENAY**
\$3.00 per 100; \$25.00 per 1000

GEORGE REINBERG
51 WABASH AVE., CHICAGO, ILL.

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CARNATION CO.**
JOLIET, ILL.

Carnations Our Specialty

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F. DORNER & SONS CO.
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The Beautiful Pink Carnation CANDACE

Dissemination 1908, \$2.00 per doz., \$12.00 per 100
\$100.00 per 1000. Early—commercial.

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ROSE PLANTS

Fine stock from 2½ in. and 3½ in. pots, of the choicest varieties, including Killarney, Bride and Bridesmaid. Write for prices.

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Telephone 4182 Madison Square.

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LOOK HERE

2000 good BRIDESMAIDS, from
3½ inch pots, at \$4.00 per 100.

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Mention The Florists' Exchange when writing.

FIRST-CLASS ROSES

3½ inch pots, \$6.00 per 100.

Bride	Hoste
Bridesmaid	Sunset
Perle	Sunrise
Meteor	Golden Gate
Chatenay	Ivory

P. R. QUINLAN & CO., Syracuse, N. Y.

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Fine Stock—Ready for Benching per 100
Bride, Bridesmaid, Golden Gate, 3½-4 in. pots, \$12.00
Liberty, 4 in. pots, 15.00
Baby Rambler, 5 in. pots, in bud and bloom, \$5.00 per doz.; 3 in. pots, very strong 20.00

FINE OWN ROOT STOCK

Bride, Bridesmaid, Golden Gate, Ivory, 3 in. pots, 3.50
4 in. stock, delivery June 15, 5.50

CHRYSANTHEMUMS

For varieties and prices see my advertisement in issue of May 27, page 700.

JAMES E. BEACH,
2019 Park Avenue, BRIDGEPORT, CONN.
Mention the Florists' Exchange when writing.

Everblooming Roses

Surplus stock of standard varieties of Everblooming Bedding Roses, at prices that will close them out.

Strong, healthy stock from 2½ in. pots, to include Bridesmaid, Bride, White Maman Cochet, Mary Washington, Queen's Scarlet, etc.

Strictly our choice of varieties in good assortment, \$2.00 per 100, \$17.00 per 1000

The Stopps & Harrison Co.

PAINESVILLE, OHIO

Mention The Florists' Exchange when writing.



The Boston Globe of June 11, 1905, contains an article on the Waban Conservatories, Natick, Mass., presided over by President Alexander Montgomery of the American Rose Society. At this establishment there are upward of 30 houses devoted to rose-growing, three of them being 700 feet in length. One of the latter houses, 40 feet wide, is given up to the cultivation of American Beauty.

Asked if there was a probability of the rose ever being supplanted in popular favor, Mr. Montgomery said: "No; there is no danger of that. The carnation has forged its way ahead wonderfully in the last few years, but nothing can ever displace the rose permanently. Of course, new varieties, shades and colors are attractive to flower buyers, and we may have rested too long satisfied with existing sorts, but the American hybridizer is now at work to produce something applicable to the wants of the American people in both outdoor and forcing varieties.

"There is a great deal more being done in this direction than ever before and there are to-day in America tens of thousands of seedlings from which great results are anticipated. New varieties, with the good or improved qualities of the old, are a great help to the business.

"When fault is found with the keeping qualities of a rose it is generally owing to the growing, cooling or the treatment it receives after reaching the hands of the retail customer.

"Many roses if properly treated will outlast carnations, but care should be taken to keep them cool, give them fresh water and to cut off the ends of the stems.

"There may be a limit to the market for roses, but there seems no danger of our reaching it, as the sale and use of flowers is so constantly on the increase. The sales from our houses have increased wonderfully, until now we market annually in excess of one million and a half roses.

"The growing of them is becoming much more of a science than formerly, and I might add that the successful rose grower to-day should take chemistry as an important foundation stone in his curriculum."

C. R. HILLS, GRAND RAPIDS, MICH.

- AMERICAN BEAUTY, extra fine, 3 in. per 100, \$6.00
- LA DETROIT, extra fine, 3 in. " 8.00
- CHATENAY—Perle and Sunrise, 3 in. " 5.00
- Cobaea Scandens, 2 1/2 in. per 100, \$2.00
- Cobaea, extra fine, 3 in. " 4.00
- Nicotiana Sandera, 2 1/2 in. \$1.00 per doz.
- PRIMULAS for July Delivery
- German Ivy, 2 1/4 in. per 100, \$2.00
- Shasta Daisies, 2 1/4 in. " 2.50
- Christmas Peppere, 2 1/4 in. " 2.00

- ASTERS**
- Hohenzollern and Carlson's, from bench, 60c per 100, \$5.00 per 1000; from 2 1/4 in. pots, \$1.50 per 100, \$12.50 per 1000.
 - Smilax, nice bushy plants, 2 1/4 in. \$1.50 per 100, \$12.50 per 1000.

ROSE PLANTS

STRONG, HEALTHY STOCK

- KAISERIN, 2 1/2 in. pots Per 100. \$5 00
- KAISERIN, 3 " " 7 00
- BRIDESMAID, 3 in. pots 5 00
- BRIDE, 3 in. pots 5 00
- LIBERTY, 3 in. pots 6 00
- LIBERTY, 4 " " 10 00
- AMERICAN BEAUTY, 3 in. pots 7 00

THE LEO NIESSON COMPANY
1217 Arch St., Philadelphia

Mention The Florists' Exchange when writing.

CANNAS Henderson's, Queen Charlotte, F. Vaughan, Austria, 4-in. pots, \$5.00 per 100.

GERANIUMS, 4-in pots, \$5.00 per 100.
J. C. SCHMIDT CO., Bristol, Pa.
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ROSES

Bride and Bridesmaid, strong, healthy 3 in. stock. \$4.00 per 100; \$35.00 per 1000.

Write for sample and be your own judge of value.

GEO. E. CAMPBELL, Flouertown, Pa.
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60,000 Grafted Roses
FOR FORCING

Extra fine, healthy plants, free from mildew.

- Liberty, 3 1/4 in. pots, \$18.00 per 100.
- Bridesmaid, Golden Gate, Kaiserin, 3 1/2 in. pots, \$15.00 a 100; \$145.00 a 1000.

SMILAX

2 1/4 in. pots, \$1.50 per 100; \$12.50 per 1000.

SEND FOR PRICE LIST.

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Mention The Florists' Exchange when writing.

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- Maman Cochet
- Etoile de Lyon
- La France
- White Cochet
- Marechal Niel
- Ivory
- Sov. de P. Notting

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

- Magna Charta
- Capt. Christy
- Paul Neyron
- Ball of Snow

2 1/2 in. pots. \$3.00 per 100.

- Crimson Rambler 1 1/2 in. pot ready for shift, \$1.50 per 100.
- Baby Rambler 1 1/2 in. pot ready to shift. \$1.00 per doz.; \$7.00 per 100

JOHN A. DOYLE, Rose Grower, Springfield, Ohio
Mention the Florists' Exchange when writing.

PHILADELPHIA ROSES

American Beauties, 4 in., 3 in., 2 1/2 in.

MYERS & SAMTMAN, WYNDMOOR STATION, CHESTNUT HILL, PHILADELPHIA, PA.

BABY RAMBLER

ON ITS OWN ROOTS

Strong, healthy, 2 1/2 in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000. Ready to ship at once. A few 3 inch plants, \$3.50 per doz.; \$25.00 per 100.

TEA ROSES Good assortment of varieties, \$3.50 per 100; \$30.00 per 1000. Strong, healthy plants.

Genista Fragrans 2 1/2 in., 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

CANNAS

We still have healthy, dormant roots, in Crimson, Yellow, Pink, Variegated Shades, Bronze Leaf Varieties. Also Orchid-flowering varieties. Send for our list and prices.

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ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA, UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
RICHMOND	\$30.00	\$250.00	PERLE VON GODES-		
ROSALIND ORR			BERG	\$5.00	\$40.00
ENGLISH	25.00	200.00	BRIDESMAID	3.00	25.00
LA DETROIT	6.00	50.00	BRIDE	3.00	25.00
AMERICAN BEAUTY	5.00	40.00	IVORY	3.00	25.00
LIBERTY	5.00	45.00	PERLE	3.00	25.00

AMERICAN BEAUTY, bench plants, \$5.00 per 100; \$40.00 per 1000.

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

Telephone 2846 Central
PETER REINBERG, 51 WABASH AV., CHICAGO

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ROSES

FOR IMMEDIATE EFFECT

Haven't you in your trade a call for large, strong Rose plants, such as will give immediate results? We have prepared for June planting a stock of strong, two-year-old plants, all on own roots, except where noted, and while they last will close them out at the extremely low price of

\$15.00 per 100; 25 or more at 100 rates. No charge for packing

These Roses can be placed in the open ground during this month and will give a profusion of flowers throughout the entire growing season. They are worth just twice as much as we are asking for them, and they can be depended upon to produce the goods. They are well foliaged, have strong working roots and are now in 4 in. and 5 in. pots. The collection includes a wide range of varieties and colors, Teas and Hybrid Teas, such as Meteor, Henry M. Stanley, Kaiserin Augusta Victoria, Marie Guillot, White Maman Cochet, Coquette de Lyon, Pink Soupert, Clothilde Soupert, Golden Gate, White Golden Gate, The Queen, Ma Fillette, Helena Gambler, Yellow Soupert, Mme. Jules Grolez, Striped La France, Yellow La France, Bridesmaid, The Bride, Mme. Welche, Duchesse of Albany, Mme. Abel Chateau, Marie Lambert.

CLIMBERS—Crimson Rambler, Yellow Rambler, Climbing Clothilde Soupert and Cherokee.

HYBRID PERPETUALS—Coquette des Blanches, Perle des Blanches, Perfection des Blanches, Mme. Gabriel Luizet, Merveille de Lyon.
Margaret Dickson, budded, 5 inch pot plants \$25.00 per 100
Soleil d'Or, budded, 5 inch pot plants, \$25.00 per 100.

BABY RAMBLER Ever-blooming Dwarf Crimson Rambler. A gem among Roses. Always in bloom. Every florist in the land should have it. 2 1/2 inch pot plants, now ready for delivery, \$2.50 per dozen; \$15.00 per 100; \$125.00 per 1000.

MISCELLANEOUS PLANTS

In 2 1/2 inch pots except where noted.

	Each	Each	
Asparagus Sprengerl	\$0.01	Scottil Fern	\$0.12
Asparagus Plumosus	.05	Yellow Alternantheras	.03
Kentia Belmoreana, 3 in.	.10	Carnations, F. Joost, E. Crocker, Queeu	
Areca Lutescens, 3 in.	.10	Loutse	.05
Flowering Begonias, assorted, named		English Ivy	.04 1/2
varieties	.03 1/2	Sweet Scented Geraniums	.04
Fuchsias, named varieties	.04	Acalypha Triumphans, Banderi, Bicolor	
Boston Fern	.04	and Marginata	.04
Sword Fern	.04	English Clematis, six kinds, including	
Pteris Fern	.04	Jackmanii, strong, two-year imported	
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CLUB AND SOCIETY DOINGS

KENTUCKY SOCIETY OF FLORISTS.—The June meeting was held at the store of Wm. Walker, with a goodly attendance of members. While only routine business was transacted, a lively interest was manifested. The July meeting will be in the nature of an outing, and through the courtesy of Anders Rasmussen will be held at his place in New Albany, Ind. Our members will kindly remember the date—Tuesday, July 11—and bring their families with them.

A. R. B.

PROVIDENCE (R. I.) FLORISTS' CLUB.—One of the most enjoyable sessions was held last Thursday evening, at which time there was served by the entertainment committee, through the courtesy of Mr. Sweeney, a collation of sandwiches and coffee. Several members came in late, barely missing the extempore talk of Mr. Wilson upon "Plant Life in the Holy Land," a treat of the first order. The gentleman was the guest of Mr. Chappell, who is to be congratulated upon securing such valuable talent, and the club voted a round robin of thanks to the gentlemen who furnished the evening's pleasure.

C. S. M.

THE CINCINNATI FLORISTS' SOCIETY held its regular meeting at the club rooms in the Jabez Elliott Flower Market, Saturday evening last. There was a fair attendance. Nominations for officers were made and other preliminary business transacted. The annual outing was discussed, and it was brought to light that four florists, one a member of the society, had taken it upon themselves to give a "florists' outing" and had signed a contract with the Coney Island people and selected the date, July 20, or the third Thursday of that month, which date has, for a number of years, been the regular date chosen by the Cincinnati Florists' Society on which to hold its annual outing. As the four, comprising a committee, had not consulted the Cincinnati Florists' Society, and had selected the date which they well knew had been the regular date of the society's annual outing, their proceedings were not looked upon as regular, and the society laid the matter of its annual outing upon the table for further consideration. The society instructed its secretary to notify the trade papers that the members would have nothing whatever to do with the outing spoken of, and also to notify the Coney Island Company that the Cincinnati Florists' Society would not be responsible, in any manner or form, for the outing booked for July 20.

The reception to be given by D. Rusconi and George & Allan will be held near the residences of Mr. George and Mr. Allan at Norwood Inn Park, commencing at 2 p. m. Thursday, June 29. At 3 p. m. the annual meeting of the Cincinnati Florists' Society will be held, officers for the ensuing year elected, and all other necessary business transacted. At 6 p. m. the banquet will be served, and a good social time will follow. All florists are invited.

C. E. Dudley and brother, of Parkersburg, W. Va., were callers Saturday.

Commencing July 1, the writer will close his place of business at 5 o'clock.

E. G. GILLET.

Editor Florists' Exchange:

Please insert the following in your issue of this week:

At a meeting of the Cincinnati Florists' Society, held June 10, a motion was made and unanimously carried, that the Cincinnati Florists' Society will not be in any way responsible for the outing to be held at Coney Island, Thursday, July 20, said outing being entirely independent of the Cincinnati Florists' Society.

GEO. MURPHY,
Secretary.

HARTFORD (CONN.) FLORISTS' CLUB.—The regular meeting of this club took place on Friday evening, 9th inst., and there was a large attendance of members. Mr. Wirth, chairman of the committee on window-boxes, which was recently appointed by President Huss, submitted an able and instructive report on this subject. The report (which appears in another column) shows how thoroughly the committee performed its task and the committee was awarded a unanimous vote of thanks. It was the sense of the meeting that, if a matter so important were thoroughly taken up by the florists' clubs and horticultural societies of the country as a whole, a permanent impetus would be given to this most important subject. Window, porch and veranda gardening would become an established fact all over our broad land, and, incidentally, the commercial man would annually add many shekels to his bank account. "Tis a great and good subject, gentlemen; push it along."

Our "club poet," who has the happy faculty of adding a dash of color to every important club event with a flash of his own peculiar genius, was particularly in evidence at this meeting. The following effusion is his contribution to the window-box question, and he hopes it will have the effect of fixing a great subject firmly in "the public eye":

"O, golden years, advance, advance,
O, years of regal work and thought,
Until the all-pervading window box
To every Hartford home be brought.

The "poet" carefully explained that he did not wish to infer that Hartford should go it alone in this matter, but, as the acknowledged gem of Eastern cities, she should be content to be the leader in this great movement and simply show them the way.

Secretary Ruedlinger read an interesting paper on "Insect Enemies and Their Antidotes Which Interested Our Forefathers." The secretary is a recognized authority on all fungi and insect pests, and he easily added to his reputation when he described in detail the various brands of bugs and their preventives which have been in vogue from 250 years ago down to the present day. He received a hearty vote of thanks and the assurance of the meeting that his own "bug destructors" were vastly superior to the old formulas. Arrangements were made for the reception of the executive committee of the American Rose Society, which meets in Hartford on June 19. Among recent visitors was George C. Watson, of Philadelphia. On account of the impending vacation season, the club adjourned as a body until the first Friday in September.

A. C.

THE ST. LOUIS FLORISTS' CLUB held its June meeting in Central, Mo., at John Steidel's place. It was one of the largest attended meetings of the year. The ladies were also out in full force, 19 of them and 33 men attending. The entire gathering voted that they never spent a more pleasant afternoon than on last Thursday. The ladies were attended to by Mrs. Steidel, who knows how to entertain, and her husband took care of the members in good style. The ladies who were present included Mrs. Chas. Juengel, Mrs. Emil Schray, Mrs. F. H. Meinhardt, Mrs. J. J. Bencke, Mrs. A. G. Bentzen, Mrs. F. H. Weber, Mrs. Scott, Mrs. E. W. Guy, Mrs. Otto Koenig, Mrs. A. Jablonsky, Mrs. A. G. Fehr, Mrs. H. Berning, Mrs. F. Fillmore, Mrs. Klockenkemper, Miss L. Meinhardt, Miss M. Meinhardt and Miss Clara Felmauch.

President Juengel opened the meeting at 2:30 p. m. All committees reported. Five new members were added to the rolls by electing Henry Lorenze, George Augermuller, Edward Hicks, Jr., Henry Aul and W. H. Foreman. This gives the club a membership of 105, which is the largest we ever had. J. J. Bencke was appointed a committee of one to look after transportation to the S. A. F. O. H. convention, at Washington, D. C., in August. The trustees were instructed to make preparations for the club's outing, to be held the latter part of July. The trustees now are: E. W. Guy, J. F. Ammann and Frank Fillmore. Any suggestion that will add to the attraction of the outing should be sent to any one of these gentlemen.

The question of incorporating the club brought out a lengthy discussion. The matter was finally left to a committee composed of Fred Ammann and James W. Dunford, to report at the July meeting.

State Vice President Fillmore, of the S. A. F. O. H., was present with blank applications for membership in the national society, and, I believe, he captured a few.

The meeting adjourning, the members joined their ladies and sat down to a fine repast spread on the lawn. After lunch, the president and John Steidel called on the members to drink to the health of Messrs. Weber and Miller, who are now sailing on to the Fatherland.

The members then repaired to Mr. Jablonsky's new place, a short distance away, to inspect the new range, which contains 25,000 feet of glass, being erected by Mr. Thompson. Foreman Brown was on hand to receive the delegation. Wolf Bros., of Dayton, Ohio, have at this place their new improved cable ventilating apparatus, which was voted a good thing. After viewing a fine lot of carnations and roses, we returned to Steidel's place and started for home, with three cheers for our hosts.

The next outdoor meeting will take place in September at H. Weber and Son's nursery, in Garden-ville, Mo. The next club meeting will be held on Thursday afternoon, July 13, when the nomination of officers for the ensuing year will take place. A large attendance is looked for.

ST. PATRICK.

NEW YORK FLORISTS' CLUB.—The ladies turned out in force Monday night, June 12, and thoroughly enjoyed the pleasant entertainment provided for them by Chairman John B. Nugent, Jr., and his committee. There were recitations, vocal and instrumental music, "mint julep" of a kind suited to the palates of the fair ones, ice cream, strawberries, sandwiches, cake and coffee. The sterner sex were not in evidence in such large numbers as has been the case at previous occasions of the kind. Whether this was owing to the fact that no bagpipes were there Monday evening, or the dread of their being on hand, we cannot say. Piano solos and songs were rendered by Mr. Hoopwood. Mr. Nugent was in fine voice and gave an excellent display of his vocal talent. Songs were also rendered by Miss Shaw and Alex. Wallace, and recitations by J. Austin Shaw and J. W. Pepper. Dancing was indulged in toward the close of the entertainment, which terminated at 11:30 p. m.

The business meeting of the club was brief. President Traendly occupied the chair. Mr. Shaw reported everything in readiness for the outing which occurs at Glenwood, L. I., on Wednesday, June 28. An ex-

cellent and varied program has been gotten up, and the prizes are numerous and inviting. The best outing yet can be easily anticipated. It was especially urged that all who intend participating in this enjoyable affair secure tickets, remitting therefor at once, so that the necessary arrangements for the comfort of all can be made by the committee.

The transportation committee, through Secretary Young, reported progress. As soon as the necessary work is completed, circulars will be distributed, announcing rates, route, etc., to the Washington convention in August next.

A letter was read by Mr. Langjahr from Commissioner Kennedy, of the Brooklyn Park Department, stating that, since the club had brought to his attention the fact that children under 14 unaccompanied by parents or guardians were not permitted to enter the Prospect Park greenhouses—the first he was aware of—it had given instructions rescinding that order. The secretary was instructed to convey the club's thanks to the commissioner for his sensible decision.

A. Kakuda and A. J. Fellouris were proposed for membership. J. C. Gowing, formerly with the Cottage Gardens Company, Queens, N. Y., resigned from the club, he being no longer connected with horticultural interests.

A magnificent display of peonies, under number, came from the Cottage Gardens Company, one variety of a charming pink color being greatly admired. Charles Lenker, Freeport, L. I., had a vase of Japanese peonies, the curious forms of which attracted attention. Carnation Victory was exhibited in fine shape by Guttman & Weber, New York. Mr. O'Mara, chairman of the committee of awards, made a few complimentary remarks on the excellence of the flowers shown, and a vote of thanks was tendered the exhibitors. The blooms were afterwards distributed among the ladies present.

The meeting adjourned for the Summer recess, to reconvene the second Monday in September.

PACIFIC COAST HORTICULTURAL SOCIETY.—The feature of the current month's meeting of this society, held June 3, was an address by President J. C. Vaughan, of the S. A. F. O. H. It won heartiest applause.

Among other things, Mr. Vaughan said: "In the present day of quickstep advancement in our country's onward march generally, there is something for us to learn all the time, and each of our trade's class papers is serving a feast every week. When I ponder the fact, which is patent to all, that many of the great daily newspapers of our country are every Saturday evening or Sunday morning devoting from a half to a full page to flowers and horticulture, evidence indisputable that there is a demand for this sort of reading, I take it as an admonishing fact that the general public is reading up along our lines, and that it should serve us as a strong incentive to never let up in nourishing our understanding with all the floricultural and horticultural pabulum we can find to devour. If we do not this, what will be the inevitable result? Will not the general public, who are, in these intellectual days of advancement, reading up along our lines as never before, soon be abreast or in advance of us in trade knowledge? And do we want it that way? Wouldn't it be humiliating? And shouldn't we be as tenacious of such a point as is the great fear of Russia that Japan will exact settlement terms that will be humiliating to the Czar as the head of a powerful nation?"

Of course, these remarks do not apply to the San Francisco trade. The few days I have been here have revealed to me not anything suggestive of shortsightedness on your part, or remedial thoughts for your consideration. It has been half a score of years since my last visit to San Francisco, and since in the interval I have been at most every place elsewhere it will be no more than fair and natural for you to assume that the basis of that I have spoken is in impressions gathered elsewhere than here; and as you all know with what marvelous facility the pollen is blown from place to place, perhaps my cautionary utterances will at least be as intended, not only harmless, but profitable.

"Contrariwise, I will say I very much like all I have seen within the few days I have been in your midst. I believe you are zealously devoted to your calling, and not of the sophomoric opinion that further trade schooling would be a waste of time. Notably have I already been very favorably impressed by the cleanliness and tidiness observed in and around your greenhouses and outdoor gardens, and in the many artistically adorned florists' stores in your great city. I believe in forever 'tidying up' in our places of business; that it is a trade attraction of very material worth. Who would have believed, ten years ago, when I was last here and your foremost florists were paying monthly rentals of from \$125 to \$175, that ten years later flower consumers would warrant the paying of from \$400 to \$500? But you know quite a number of your cut flower merchants are doing this, and doing it ungrudgingly. And what does it all mean? Surely that prosperity is with you San Franciscans, and with you to remain evermore is my sincere wish. The Lord be with you till we meet again."

Two days subsequent to the time of the address given in brief above, Mr. Vaughan was again seen at the Pellicano store, receiving callers. Mrs. J. R. Martin was there, and to the writer she said, officially, as chairman and general director of the exhibition committee of the California State Floral Society: "Our society is this week notifying all flower growers in the State that in the latter part of October, exact dates and particulars to be given later, a great Fall show will be held in the grand nave of the ferry building. The committee in charge invites the co-operation of every member of the society, and all growers and dealers in the State. This show will include roses, chrysanthemums, dahlias and carnations, both field and under glass grown; also all other flowers of the season. The society's gold and silver medals, and special cash awards, will be offered as premiums."

ALVIN.

LIST OF ADVERTISERS

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Contents.

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INDEX TO STOCK ADVERTISED

Index listing various plant species and their corresponding page numbers, such as a, col. 1; b, col. 2; Abutilon, Acalypha, etc.

Columbus, O.

A Joint Meeting. An all-day joint session of the State Forestry Society and the Columbus Horticultural Society was held in Townshend Hall at the State University grounds Saturday, June 10, with a large attendance. The very elaborate program was well carried out, with the exception that, on account of the busy season, some of the prominent nurserymen and florists from different parts of the State who were present for papers were unable to be charged this year.

done in the line of progressive horticulture in the greenhouses and gardens. Prizes were awarded to P. F. Ver-gon of Delaware County for display of apples; to the Franklin Park Floral Co. and Mr. Charles for roses, and to Mrs. Sharp, of Westerville, for cut flowers.

HOLYOKE, MASS.—The Holyoke Horticultural Society has, through its special committee, appointed the 20th as the date for the annual rose show. It will be held at the Unitarian Church lecture room, and all roses must be in place at 11 o'clock the morning of the show. No admittance fee will be charged this year.

CARTHAGE, MO.—The elements this year have been somewhat severe on P. Finn & Son, of the Carthage Greenhouses. Damage by hail and fire to the extent of \$6,000 has been sustained so far. The firm is now busy repairing houses in which a large quantity of glass was broken recently by hail, and Mr. Finn will miss his usual Summer vacation this year.

Hail News.

AUSTIN, MINN.—In a recent hail storm, about 200 panes of glass were broken in the greenhouses of the N. Kinsman. He was insured in the F. H. A.

JOLIET, ILL.—On June 5, a hail and wind storm swept over this locality. Fortunately the large greenhouse establishments were not directly in the storm's path. The J. D. Thompson Carnation company sustained a loss of \$10 through broken greenhouse glass. Joseph Labos' place suffered severely. He was insured in F. H. A. At their retail store the Chicago Carnation Company suffered a loss of about \$200 but little at the greenhouse plant. C. E. Carter's place is a total wreck. The peonies of the Chicago Peony Farm were heavily damaged by this storm and a previous one.

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FOR THE RETAIL FLORIST.

Flowers for School Commencement.

The presentation of flowers at school graduation is being discouraged by the powers that be; nevertheless, and despite this senseless antipathy, a great many flowers are sent, even though they are relegated to the anteroom.

In considering the fitness of things, the fact that any flower is better than no flower should rule, but when flowers are sent to a public function, such as school exercises, they should not be confined to or hid away in a box. Have them so as they can be seen, for their sweet influence constitutes the very refinement of education.

Time was when incongruous and inappropriate designs, such as horseshoes, baskets, etc., were sent. Nowadays, the loose bunch is the most popular form. And here let us say that ribbons, and plenty of them, are distinctly appropriate. Care should be taken to have them of the exact class or school colors. The feminine heart is very partial to ribbons, and the ribbon on the bunch of flowers sent at school graduation is apt to be long treasured as a memento of the glad days. To make these ribbons more valuable, the name of the recipient, and date, can be painted on the end of them. This can easily be done with small stub or brush and liquid gilt. By using a little diplomacy and proper representation, we can inaugurate many pretty customs. Every girl graduate could wear a rose in her hair, and every boy a flower in his jacket, and though such may seem a small and insignificant part of trade, anything that conduces to the use of flowers is important.

Care should be used in not having bouquets or bunches too heavy or cumbersome. Size need not be responsible; it is usually the sort and quantity of greens used for packing. Smilax, especially with heavy wires, is about the worst thing. Asparagus or ferns are the best. No matter what kind of flowers are used, they should be arranged very loose and irregular; the set or formal style of bouquet is not suitable for these occasions. Of course, it is necessary to use wires on some flowers, but none should be employed where it is not absolutely required.

Roses are the most suitable flowers, and American Beauty rightly heads the list. The thorns should be removed, for they are disagreeable to transparently covered arms. Next to roses, carnations are best adapted, and in torrid weather, where it is a matter of long waits, they may be recommended even before roses.

Although there are preferences, almost any color or flower is allowable for school affairs; and while to the city florist, where there is unlimited material to choose from, the most refined should be selected, yet the country florist need not but use properly whatever is available.

We would like to see the day arrive when presents of flowers will be more generally sent to the homes of the graduates, thus avoiding any red-tape bound jealousies. And much could be done to encourage this, by arranging and exhibiting specially attractive designs, with ribbons attached, on the same lines as we prepare for Christmas or Easter. Juvenility is less exacting and easier molded, and almost always demands the plentiful. Smallness in ribbon or flower only meets second favor. The time long since arrived when it is necessary to go out and captured trade, and, unlike the detestable "crepe-pulling," soliciting school flower business is not only honorable, but resultant in great good to all.

Next week we shall speak of steamer flowers.

KINVARA.

Flowers by Mail.

Perhaps few postoffices handle any more flowers than the local postoffice, says the Atlantic City (N. J.) Gazette. There are hundreds of girls in the hotels who have one or more admirers who remember them when they are separated by space through the mails. Letters come by the score, told by the neatness with which they are written and the envelopes in which they are encased. Then come the flowers. Pasteboard boxes are used. The clerks handle the live tokens with tenderness, while they put them in mail bags, but the men who handle the mail bags don't know of the boxes, and they smash them about in a reckless style. When the flowers emerge, as a rule, they are flattened and crushed and the lady love gets them, perhaps, with a pout and a frown, but she seems satisfied with the indication that she is not forgotten while absent. Hundreds of dollars are spent for flowers sent here which deprive local florists of just so much patronage. It is a risky thing to send flowers by mail.

WINDOW GLASS.—Prices of glass have ranged from 90 and 25 to 90 and 40 per cent. discount for the first three brackets, while larger sizes of better quality have been quoted from 90 and 15 to 90 and 17½ per cent. discount. Local business is fair, and quotations in this market are 90 and 10 per cent. discount on all sizes single and double, with the exception of the first two brackets of single strength B, which are 90 and 10 per cent. discount.—The Metal Worker.

Earthenware Jardinieres and Pedestals for Lawn Use

The following decision has been rendered by the Board of General Appraisers in the matter of a protest of L. Strauss & Sons against the assessment of duty by the Collector of Customs at the Port of New York. Opinion by Sharretts, General Appraiser:

"The articles in question are jardinières of large size and pedestals intended for use on lawns. They are invoiced as 'coupes' and 'colonnes' and are composed of a superior quality of clay glazed, a single color having been added to the glaze. Duty was assessed on the merchandise at 60 per cent. ad valorem under the provision of paragraph 96 for earthenware ornamented or decorated. The importers claim classification and duty at 55 per cent. ad valorem under the same paragraph.

"The jardinières in dispute have been elaborately embellished with floral designs in the process of molding, but contain no super-added ornamentation or decoration, unless a single color glaze can be so designated, and we do not think it can be regarded as such.

"Paragraph 95 of the tariff act of 1897 imposes duty at 55 per cent. ad valorem on plain white earthenware (glazed) if not ornamented or decorated, and a single color added to the glaze involving an inappreciable outlay for labor or material, does not, in our opinion, amount to a decoration or ornamentation. The language of paragraph 100 relative to articles of glass colored or otherwise ornamented or decorated is similar to the provision contained in paragraph 95 for earthenware colored, etc.

"On the authority of *Koschek v. United States* and *Bader v. United States*, the board has held that the higher rate of duty imposed on glass colored applies only in cases where the color amounts to an ornamentation or decoration, and that a single color is not included in such classification. See G. A. 5162 (T. D. 23794) and G. A. 5367 (T. D. 24547). By a parity of reasoning a single-colored glaze applied to articles of earthenware does not bring them within the term earthenware ornamented or decorated. See G. A. 5961 (T. D. 26116).

"In G. A. 5336 (T. D. 24424) the board included mer-



DELPHINIUM (LARKSPUR)

Photo by J. F. Johnston

chandise similar to that now before us in class 2, and held it to be dutiable at 55 per cent. ad valorem, on the authority of which we sustain the protest and reverse the collector's decision.

Delphiniums (Larkspur).

A testimonial to the delphinium need comprise but a single word—e. g., indispensable. They can not be done without if our gardens are to contain all that is lovely, all that is beautiful, in the way of flowers. They are a clear-marked group of hardy perennials and annuals, but more imposing, striking and stately are the perennial varieties. When well grown and taken care of, they look so majestic and dignified, with their clusters of erect flowering spikes reaching under good treatment and according to varieties anywhere from 3 to 4 feet in height. When June arrives, the flowers begin to come, continuing in great display throughout July, August and well into September. So vast is the aggregate of bloom and so rich and varied the different shades of blue, that a colony in full flower is a sight not soon, if ever, to be forgotten.

The culture of the larkspur is very simple, so much so that one is apt to marvel at the results obtained; but let me here state that what little is contained in the culture recipe every bit of it is of vital importance. The soil should be a rich, friable loam, deeply tilled and rather moist. Delphiniums are far from being lovers of hot, dry soils. Add plenty of well-decomposed manure. When the flowering spikes

appear, all weakly ones should be weeded out and those remaining well attended to in the way of support against storms.

The illustration represents only the side shoots which proceed from the main spike.

Long Island,

JOHN F. JOHNSTON.

About Seeds.

Much might be written on this subject. I cannot believe that localities have any particular influence, but more depends upon the system of saving and ripening seeds. As an instance, I may mention mignonette seed. When I grew it in large quantities, I found it best to keep each saving of seed separate, for when several different lots were put together the seed did not germinate so evenly; and once, when wanting some to sow, I had to use some which had not long been collected, with the result that it was very slow to germinate, and came up unevenly. This is contrary to the general rule, as immature seeds usually germinate quicker than those thoroughly ripened. As an example of this I may refer to cannas. When thoroughly ripened, it takes a long time for the hard shell to split, and it is recommended to file them to assist the bursting, but if seeds are sown before they are quite ripened off, they will germinate in a short time, and require no assistance to burst their shells. In these there does not appear to be any loss in vigor from sowing immature seeds. I am not prepared to state from actual observation, but it is supposed that with tomatoes unripe seed will germinate quickly, and plants will be weak; but if they can be got over the early stages of growth, they will crop earlier, and the crop may be heavier, though not such large fruits individually. I can say that I have had remarkably good results from seeds five and six years old. I have also grown cockscombs from seed seven years old, and the plants appear to form the combs earlier than those from new seed. It used to be a theory that stocks would produce a larger percentage of doubles from old seed. I have proved that it may be kept for several years, but cannot vouch for the fact that it is likely to produce more doubles. There is one thing, however, that I fully believe; that is, that a much larger percentage of double flowers is obtained from seed saved from the main stems only, and these topped when they have attained to a fair length.

I remember when balsams were grown for exhibition, a most successful exhibitor always saved his seed from the main stems only, and he attributed his success to the fact of having carefully selected the seed, but I think culture also had something to do with his success.

There are many seeds which under natural conditions are subject to a long period of drying, and which no amount of drying seems to injure; but there are others which never do get thoroughly dried. Taking cyclamen seed as an example, this should never be subject to much drying; from the time it is collected until it is sown it should be kept in a cool place. Shut up in a tin box it will keep firm and plump, but when over dried it does not germinate so readily, and the seedlings are weaker. All primula seed is easily perished by over drying. I remember losing seed of some choice varieties of *P. sinensis* through accidentally having it on a shelf, exposed to the sun, a few days too long. The seed of this has often given trouble, and I believe the cause may be traced to over drying. I might here add that when sowing any of the cyclamen, primula, etc., a covering of finely chopped sphagnum moss, which will retain moisture, will be much better than any other covering; and when this is used, if the pots are stood in a shady position where they are otherwise exposed to the light, the seeds will germinate, and not be so liable to damp off as when the pots are covered with glass or closely shaded. It is now about the time for the seed of *Aralia Sieboldi* to arrive, and this is an example of perishable seed. It will lose its vitality in a few days if allowed to get dry. I have kept it several months, shut up in a tin box, and kept in a cool place; but sown as soon as received, it will germinate more satisfactorily, and the young plants will come stronger. Some seeds may be all the better for being kept a considerable time; yet others, which under natural conditions germinate as soon as they fall from the plants, perish quickly and vitality may be destroyed by over drying. Seeds may be perfectly good when received from a seedsman, but their vitality may soon be destroyed by keeping them in a dry, warm place. We hear of fern spores keeping good for an indefinite period, and some may be under suitable conditions, yet under ordinary treatment I have proved that many will perish within a year.—Metropolitan, in Horticultural Advertiser, Eng.

A large business has been worked up by Arizonians in the gathering and sale of cactus and desert plants, for which there seems to be an ever-increasing demand in the Eastern States and in Europe, says a Phenix (Ariz.) correspondent of the Denver News. Near Phenix is a large nursery devoted solely to the care and sale of prickly plants. Two German horticultural gardens have expeditions in the field in Arizona gathering and shipping rare specimens without reference to size. Fairmount Park, Philadelphia, is to have an Arizona garden, for which Gardener Smith, of the Arizona capital grounds, is engaged in gathering choice specimens of desert flora.

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FOR FALL, 1905

ROSES, strong, home-grown plants; H. P.'s and Rambler.
CLEMATIS, Large Flowering and Paniculata.
CLIMBING VINES, leading varieties.
ORNAMENTAL SHRUBS and TREES, fine assortment.

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Arrived in superb condition, direct from the woods, the following Orchids: Cattleya labiata, Cattleya Dowiana, Cattleya Warneri, Laelia flava, Miltonia Candida, Dendrobium Chrysolobum and Burlingtonia fragrans. Write for special list, also for Catalogue of established Orchids.

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ALL STRONG AND HEALTHY

ROSES, dwarf H. P.'s, grafted on seedling ribs (canina). Standards, H. P.'s, 3 to 3 1/2 feet tall.

APPLES, maiden, on Crab Stock.
PEACHES, maiden.
PEARS, maiden on Quince.
FRUIT AND ORNAMENTAL TREES AND SHRUBS.
HYDRANGEA, PANICULATA, ETC.

Moderate prices on Application.

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A Book That Every Grower Should Possess

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I will sell at public auction on the premises, run of shine, Thursday, July 6, at 12 o'clock noon, the Humphrey Greenhouse in the City of Rome, N. Y. Has 15,000 square feet of glass, located on lot consisting of 165-foot frontage and 150 feet deep, with ten moderate, well-equipped greenhouses, all stocked with palms, ferns, roses, carnations and general bedding stock. Houses are all heated with steam, are also an 11-room dwelling, with modern improvements, and a natural gas well, which is centrally located and doing a fine business. plies the property with light.

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SCOTTII

See my advt. in issue, June 10.

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From \$1.25 to \$2.00 each.

Kentia Belmoreana, from 60c. to \$5.00 each.
Bedding Plants. A fine assortment. Write for prices.

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A nice lot of made-up KENTIA PALMS to 8 in. and 9 in. pots at \$3.00 to \$5.00 each. Splendid plants for decoration.

Dracaena Indivisa, 3, 4 and 5 in., \$5.00, \$10.00 and \$25.00 per 100.

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Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$6.00 per 100.

Geraniums, S. A. Natt, Castellans, John Doyle, Perkins, Mms. Sallerol, Single and Double Gen. Grant, La Favorita, 2 in. pots, \$2.50 per 100; 3 in. pots, \$5.00 per 100.

Vinca Var., 2 in., \$2.00 per 100.

Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia, Coleus, red and yellow; Ageratum, blue-Alternanthera, red and yellow; Cigar Plant, 2 in. pots, \$2.00 per 100.

Rev. Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.

Cannas, red and yellow, and var., 3 in. pots, \$5.00 per 100.

Vinca Var., 3 in., \$4.00 per 100.

Boston Ferns, 5 in., 30c. each. Cash with order

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Nephrolepis Barrowsii

\$25.00 per 100.

BOSTON FERNS \$3.00 per 100.

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Strong 2 1/2 inch stock, from bench.

See display advt. in last issue, page 651.

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Rhododendrons, Azaleas, Spiraea Japonica, Lilium Speciosum, Peonies, Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P. Roses in the best sorts.

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Decoration Day is now over.

BE WIDE AWAKE

Fill your empty houses with something that will yield you 200 per cent. profit on your investment.

GODFREY ASCHMANN'S

ARAUCARIA EXCELSA

will do it.

The last shipment for the summer, per steamer Oxonia, arrived in Philadelphia, May 30, from Belgium. Grown there expressly for me, under contract, by an Araucaria specialist. 5000 of the choicest plants, better and shapelier than ever before, are now growing in my greenhouses. I herewith quote you special prices on them. Just look.

10 to 12 ins. high, 2-yr. old, 3 tiers.....\$0.50
12 to 14 ins. high, 3 to 4 tiers..... .50
14 to 16 ins. high, 3-yr., 3 to 4 tiers..... .75
18 to 20 ins., 4-yr., 4 to 5 tiers..... 1.00

Araucaria Compacta Robusta, unusually large, very beautiful, from \$1.25 to \$1.50 each. Glauca, 75c. to \$1.00 each.

Kentia Forsteriana, 30 to 36 in. high, 4-yr. old, \$1.00; 4-yr. old, 25 to 30 in. high, 75c. Belmoreana, 4-yr. old, 25 to 30 in. high, \$1.00 each. Above are the sizes entered in the Philadelphia Customs House.

Ficus Elastica, imported, 4-in. pots, 25c.; ready June 1st.

BEDDING PLANTS

Geraniums, 4 in. white and mixed varieties, \$7.00 per 100.

Cannas, best sorts, 4-in. pots, \$7.00 per 100.

Scarlet Sage, Clara Bedman, and Begonia Vernon, red and pink, 4 in., \$7.00 per 100.

Heliotrope, blue, 4 in., \$6.00 per 100.

All goods must travel at purchaser's risk. Cash with order, please.

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A good variety of the right kinds for filling fern dishes, etc., 2 1/2

inch, \$3.00 per 100. KENTIAS and COCOS, nice for centers, 2 1/2 inch, 10 cts. each; \$9.00 per 100.

DRACENA INDIVISA, 6 inch, 36 cts. each; 4 inch, \$10.00 per 100.

SALVIA SPLENDENS, 2 1/2 in., \$2.00 per 100.

SALVIA, from flats, \$1.00 per 100.

H. WESTON, HEMPSTEAD, N. Y.
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Assorted Ferns for Jardinieres. We have a fine lot of these Ferns in all the best varieties ready for immediate use from 2 1/2 in. pots at \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

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20,000 extra fine plants of the Holly Fern (Cytotium falcatum), 2 in. pots, strong enough to shift into 3 in., \$3.00 per 100. Grow some for your holiday trade; it sells well and what is equally desirable, gives your customer satisfaction.

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TELEGRAPH

The Most Brilliant Scarlet Carise Geranium in Cultivation.

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CASH WITH ORDER.

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For planting, 3 in. stock of

Plumosus Nanus

\$3.00 per 100, cash.

A bargain for growing on for cutting

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Boston Ferns, 6 in., \$26.00 per 100; Pteris and Boston Ferns, 8 in., \$50.00 per 100; 7 in., \$1.00 each. Larger plants from \$1.50 upward.

Ferns in variety, from 2 1/2 in. pots, \$3.00 per 100; \$25.00 per 1000.

Latania Borbonica, 3 in. pots, \$6.00; 4 in., \$15.00; 5 in., \$25.00; 6 in., \$50.00 per 100; 7 in. and 8 in., \$1.00 and \$1.50 each; larger plants from \$2.50 up.

Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 6 in. pots, \$50.00; 8 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each.

Areca Lutescens, 4 in., \$20.00; 6 in., \$50.00 per 100; 8 in., \$1.00 each. Larger plants, from \$1.50 up.

Pandanus Urtica, 8 in. pots, 50c. Dracaena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Recinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 8 in. pots, \$9.00 per doz. Larger plants from \$1.00 up.

Phoenix Canariensis, fine specimens, from \$3.00 to \$35.00 each. Plants in fine condition.

JOHN BADER, Troy Hill, Allegheny City, Pa.

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FOUNDED IN 1888



A Weekly Medium of Interchange for Florists, Nurserymen
Seedsmen and the Trade in general

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Copy must reach this office THURSDAY MORNING to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 783.

News of the Week in Brief.

Luther Burbank is now devoting his attention to improving the rubber plant.

Southern huckleberry branches are in great favor in Boston for Summer decorations.

A Japanese and a Greek have been nominated for membership in the New York Florists' Club.

Floods in the pea-growing districts of Wisconsin have done much damage to the crops there.

A hail storm struck Joliet, Ill., on June 6, doing much damage to the greenhouses in that locality.

Lightning damaged the establishment of J. Kletzley, at Oakmont, Pa., this week to the extent of \$1,000.

The season around Boston is much later this year. Outdoor roses and peonies are just commencing to bloom.

The Chicago wholesalers are endeavoring to form a permanent organization among themselves for mutual protection.

President J. C. Vaughan, S. A. F. O. H., delivered a pithy address before the Pacific Coast Horticultural Society on June 3.

The Carthage Greenhouses, Carthage, Mo., have this year, so far, sustained damage to the extent of \$6,000 from hail and fire.

Among the new corporations recorded this week is the Burnham-Hitchings-Pierson Company, greenhouse builders, with a capital of \$2,000,000.

Through the efforts of J. C. Vaughan, the Southern California Horticultural Association has been formed, with Captain F. Edward Gray as president.

The sum of \$25,000 has been donated to establish and equip a botanical garden in connection with the Brooklyn (N. Y.) Institute of Arts and Sciences.

The American Association of Nurserymen will join forces with the American Seed Trade Association in an endeavor to have the postal laws relating to mailing of catalogues revised.

The nurserymen, at their annual meeting at West Baden, Ind., this week, discussed the low prices on ornamental stock. An opinion was expressed that united effort should be made to advance the price of this class of stock.

The New York Florists' Club has adjourned for the Summer recess, to reconvene the second Monday in September. Ladies' night, last Monday evening, was a great success. The outing takes place at Glenwood, L. I., on Wednesday, June 28. Remittances for tickets should be made at once.

State Vice President S. A. F. O. A. Frank Fillmore, of St. Louis, is a hustler after new members. He takes blank applications for membership in the national society to the meetings of his local club, and generally is successful in capturing a few new adherents. This is an excellent plan, worthy of emulation by all the state vice presidents of the national society.

Opportunities in Agriculture.

In the yearbook of the Department of Agriculture for 1904, just issued, Dr. B. T. Galloway, chief of the Bureau of Plant Industry, discusses the subject of opportunities in growing crops under glass. Plant, cut flower and vegetable growing are all dealt with. Under the caption of "The Man First," Dr. Galloway says:

In such intensive work as must necessarily be carried on in connection with the growing of plants under glass it is essential that the man who is proposing to undertake it should be in the prime of life. It is not work for men beyond middle age, nor is it work for men with weak constitutions. While the work is not necessarily heavy, it is of such a nature as to require strict attention, and while it is for the most part in the open air, and, therefore, not as likely to bring on certain diseases as in the case of other more confining occupations, it frequently happens that exposure is required, and such exposure can only be borne by men of comparatively strong constitutions.

In addition to the foregoing, those who are contemplating work of this nature must or should have a thorough business training. More failures result from lack of good business capacity in this field than from all other reasons combined. It frequently happens that a man may be successful in growing crops and in getting them into good condition for marketing, but through lack of knowledge or lack of ability to appreciate the main facts with reference to the commercial handling of his products he fails.

As a further necessity in this work, it should be pointed out that some experience is required—the more experience, of course, the better. It is not always practicable for a man contemplating entering a field of this nature to have had experience in intensive lines of horticultural work. If he cannot get it by direct practice, he should spare no effort to find out all he can as to what others are doing; visit those who are engaged in the business; secure the various works that have been published on the subject; consult the experiment station reports; and familiarize himself in every way with what the world is doing in this field. If he will do this, and if he is a man of keen perception and observation, he will soon be able in a measure to manage his own affairs.

So much, therefore, for the man. The fields that are open may be considered under several heads: General plant growing; special fields, as vegetable growing and flower growing; and then the ultraspecial fields, as specialization with certain crops, such as roses, carnations or violets.

General Plant Growing.

The field of general plant growing probably offers more opportunities than any of the others; that is, opportunities for a greater number of people. In the vicinity of every town or city having a population of from 3,000 to 10,000 there may be found in most cases good openings for the ambitious and progressive young man who desires to supply a home market with general crops which may be grown partly under glass and partly in a very intensive way out of doors. The demand in towns and cities of this size, of course, is not for any great quantity of any one thing; hence, the necessity for producing a variety, as ornamental plants for use in home yards, plants for cut flowers, vegetables, etc.—a general miscellaneous stock.

In work of this nature it is essential that the location selected be within easy reach of the business limits of the city, for the grower will have to depend largely for his trade on those who may visit his establishment. Such being the case, land must be secured, if practicable, within easy access of those who may wish to visit the place as prospective buyers.

For an ordinary establishment of this nature half an acre of ground is sufficient for a small start. An acre would be better. Due attention must be given to the location, with respect to soil, water facilities, and opportunities for securing fuel and other essential things required in general work. In most cases half an acre of ground under such circumstances can be bought for \$500. To equip properly a small greenhouse would require another \$500. For miscellaneous equipment, including tools, out-buildings, and stock, \$200 would be necessary for a start. Thus, there would be invested in the neighborhood of \$1,200. If the man himself wished to live at the place, as he should do, it would probably require from \$500 to \$1,000 for a home. In producing a variety of crops, as indicated above, the gross income from such a place should be at least \$1,200 per annum. Practically, all the work on such a place could be done by the owner, with some little assistance from time to time in Spring and Fall.

The crops handled should be a general assortment of bedding plants, a small collection of ornamentals—such as palms, ferns, etc., which could be sold as pot plants—and carnations, roses, chrysanthemums, etc., for cut flowers during the winter. A considerable portion of this work can be done out of doors, the plants being to have the outdoor crops grown in such a way as to harmonize with the plans for inside work. Of course, a definite system must be followed, and this system will in a measure depend on local conditions. A few hotbeds and cold frames will add materially to the possibilities of such an establishment, and will allow the owner to increase his stock considerably, especially of Spring bedding plants, which may be started earlier in the greenhouse and then moved to the frames outside as the season advances.

Cut Flower Growing.

Cut flower growing is the most profitable field in the growing of plants under glass. It is most profitable for the reason that there is a greater demand for cut flowers than for vegetables, and while the risks in some cases are greater, the profits are correspondingly large. The work in this field may be of two kinds—the growing of mixed crops, or specialization with one crop alone.

By mixed crops is meant the growing of three or more crops of flowers, such as roses, carnations, violets and chrysanthemums. In this field the best openings are to be found near cities with a population of from 10,000 to 50,000. There is always a demand in cities of this size for cut flowers, and this demand is frequently increased if there are any special institutions in or near such cities, such as colleges, universities, etc.

The grower here may either handle his own products, or sell direct to dealers in the cities. It is more profitable, if capital can be secured, to handle one's own products. A store in the town or city eliminates the middleman and enables the grower to take not only the profits from the growing of his crops, but the commissions which

must be paid for selling the flowers as well. These usually represent about 100 per cent. In other words, the crops which the grower sells to the retailer in the city are sold by the latter at about 100 per cent. advance over the prices paid to the grower. Considering the extra expense of store rent, clerk hire, etc., a considerable portion of this profit may just as well be secured by the grower, if he has the business capacity and can manage the details connected with both the city department and the producing department.

Moreover, this field offers opportunities for those who for various reasons cannot obtain sufficient ground very near to a city. In other words, flowers such as have been mentioned, grown under glass, may be shipped with perfect safety from 50 to 300 miles, thus broadening the field of the prospective grower. This makes it practicable to secure land at very reasonable prices; but in addition to this must be considered the extra expense of express and freight rates, both in the transportation of the crops produced, and in the transportation of the material actually required for the work, such as fuel, manure, etc. Ordinarily, however, many choice locations can be found in the vicinity of a city where half an acre or an acre of ground can be secured at a price of from \$50 to \$500 per acre. It is not always practicable, however, to secure land as reasonably as this; more often, half an acre of such land will cost \$500.

Starting with such an area of land, three houses may be constructed, each at a cost of \$1,000. In these may be grown roses, carnations, and violets. In this connection it is necessary to emphasize the fact that these crops cannot be successfully grown all in the same house. Each requires a special temperature and special treatment, and hence the necessity for division of labor. With the land costing \$500, three houses, \$3,000; general equipment, \$500; and a home for the grower costing at least \$1,000, we have an investment of \$5,000. The gross income from such a place should be at least from \$3,000 to \$3,500 annually, and the net income from \$1,800 to \$2,000.

If such an establishment is rightly planned in the beginning, it may be extended until the entire half acre is covered with glass. In such an event, of course, the grower will have to depend entirely on the outside for his soil and manure, but this is not a difficult problem in the vicinity of a city. The gross income from such an establishment should be from \$10,000 to \$12,000, and the net income from \$3,500 to \$4,000.

Specialization in this field will be conducted in about the same manner as already described, except that the grower will limit himself to one crop, such as roses, carnations, or violets. There are some advantages in this and some disadvantages. The advantages arise chiefly from the fact that it seldom happens that all three crops fail in one season, while it sometimes occurs that one crop, for reasons which cannot well be controlled, either fails off materially or else fails completely. A complete failure, however, is or should be very infrequent, unless through bad management or lack of knowledge on the part of the grower. Specialization offers opportunities for growing crops of the highest quality and for competing in the market for the very best prices. The cost of such work is practically about the same as for general flower growing, already described. The opportunities, however, are more restricted, for the reason that to compete in this field one must grow the very best material. In other words, to be a specialist means the growing of the very best of crops. To be a specialist, furthermore, means certain knowledge and a certain temperament, which are difficult to find. The general gardener, or one who has been trained in the growing of a number of crops, very frequently fails when he attempts to specialize, because he knows too much about too many things to make a good specialist. Some of the best specialists in violet growing are men who have known little or nothing about growing any other crops, and have gone into the business from the workshop or from the farm. Going into business in this way, the prospective grower has no preconceived ideas or notions about how the crops ought to be handled; his whole mind is centered on one thing, and he is not carried away by suggestions coming to him as the result of former experience in producing other crops. What is stated here in regard to the owner is applicable, of course, to the men whom the owner must secure for his help. Given a bright, quick-witted young man, with no prejudiced views as to the growing of crops, he will, in most cases, make a better specialist than one who has had considerable training in general gardening work.

Plant Growing as a Specialty.

The growing of bedding and ornamental plants as a specialty is a field which is comparatively limited. The great improvement in transportation facilities has made it practicable to ship plants long distances; hence these plants are now turned out very cheaply and by the million in large establishments remote from the points where they are to be sold. Such being the case, the opportunities for the small specialist are few and are growing fewer. If the field is entered at all, it should be considered mainly from the standpoint of getting into touch with some already existing large establishment with a view to obtaining experience, and with the ultimate view of pushing the business to such a point that large shipping facilities may be developed.

BOOKS RECEIVED.

A LITTLE GARDEN CALENDAR. By Albert Bigelow Paine. Publishers, Henry Altemus Company, Philadelphia, Pa.

This is a delightful and entertaining little volume. The author's intention was to write something in simple language concerning the wonders of plant life, to set down certain easy methods of observation, including planting, tending and gathering the harvests from month to month, etc., and he has succeeded admirably in his task. Intergoven with the more prosaic portion of the story—the whole being written in narrative style—are fairy tales, traditions and the like, all relating to plant life and origin. The book is intended for the instruction of boys and girls, a purpose it will well serve, but many adults, too, will pass a pleasant hour in following the hopes, failures and successes of little Davy and Prue, in their gardening work, carried on under the supervision and guidance of the chief gardener—their papa. The style adopted by Mr. Paine is a unique and happy one, and the instruction he furnishes is wonderfully correct, as well as practical. Forty-six illustrations accompany the text, and a handsome cover adds to the attractiveness of the volume.

OUR READERS' VIEWS

The Boston Parks Display at Horticultural Hall.

Editor Florists' Exchange:

I note with regret in your issue of June 10 an undeserved criticism by a correspondent concerning the collection of flowering shrubs exhibited by the Boston Park Department at the exhibition of the Massachusetts Horticultural Society, held June 3 and 4. For the information of your correspondent, allow me to state that J. W. Duncan, who had charge of the display, stated to the committee on exhibitions in advance that, on account of other important duties on the morning of the exhibition, it would be quite impossible for him to arrange the collection in accordance with the schedule time, and asked an extension. His request was granted, as is often done on occasions when the delay is not due to the negligence of the exhibitor, and in this particular case censorious criticism was wholly uncalled for.

WM. P. RICH, Secretary Mass. Hort. Society.

Foreign and Home Born Peonies.

Editor Florists' Exchange:

Now, June 6, the peony season is on. When you see 50,000 in 400 varieties in bloom, you don't know whether you are on the edge of Paradise or in it; a section of glory seems let down on earth showing what we can do if we try to gladden this somber old world of ours. Seen at a distance the peony field is one blend of color, woven into carpets of transcendent beauty. No other flower can make such a show; while, over all, hang billows of fragrance.

I find many of the English sorts have been overpraised, and it needs more than printer's ink and electros to sustain them. Some sorts are not hardy, some like delicate little Purity seem too pure for this earth, and vanish away entirely.

I have been studying closely the cause of some peonies not blooming. For instance, we hardly ever get a flower from the tree peony. The trouble is the severe Spring frost; we had a good many this Spring and many kinds could not stand it. Even Festiva maxima was affected and blooms but slightly, and then the flowers are not up to the usual standard. Most of Kelway's varieties did not flower; they were nipped in the bud.

For several years I have been comparing closely the home and foreign born, and, in the main, I give preference to our own. For years I have had the famous Agnes Mary Kelway, but it bears no comparison with several of Terry's, and I never have found among the 80 varieties of his, which I have, anything that compares with Rosenfield's Golden Harvest. As an all around flower, it is hard to beat; it always blooms. One year, when nearly ready to blossom, it was frozen solid, in a sleet storm, 48 hours, and then covered itself with garments of beauty. Terry's General Grant is simply a glory, a solid mass of crimson splendor. I have Kelway's "Bunch of Perfume," but it is left away behind in form and fragrance by Red Jacket, a new American sort; while Shabona rises imposing and grand on stems nearly four feet tall, and looks down on many of the foreigners with contempt.

I have thousands of seedlings on the way, and from 35 pounds of seed sown last Fall, which should give 40,000 or 50,000 plants, perhaps we can get a dozen or so which will make us shout for America.

I am impressed with one thing. In pushing peonies to the front we must regard the five points of excellence: fragrance, beauty of form, robustness, readiness of propagation with the faculty for resisting the late frosts so as to give us perpetual bloomers. Many of the choicest importations have never yet flowered; I had great hopes of them this Spring, but find them full of dead buds.

York, Neb. C. S. HARRISON.

Bonora.

Editor Florists' Exchange:

Quite a number, myself included, have been experimenting on a small scale with this new liquid fertilizer, and the wonderful quick-acting results, naturally, have got us somewhat interested. I presume Bonora is not widely known as yet, but I predict that before another season goes by it will be much better known than it is to-day. I must admit that at first I was somewhat sceptical about it. This liquid, being almost odorless, and nearly the color of clear water, one naturally can hardly realize the fertilizing elements contained in such a small volume. However, anyone desiring to satisfy himself should take a lump of unslaked lime; pour enough Bonora on this lime to moisten it, when the lime will be found to throw off a powerful odor for an hour at least.

One thing is certain, Bonora can be used anywhere in the dwelling house, for instance, or around the residence where other fertilizers afforded to plants would be offensive. At the same time, I would not wholly recommend this substance for growing plants or fruits. All plant life is benefited by a change of food. My first experience with Bonora was with a batch of strawberries in pots, this Spring, compared with hatches grown with other well-known fertilizers. But here I have to give the preference to Clay's manure and ichthemic guano. It being my first experiment, however, probably I used Bonora too freely. The plants received four applications, whereas I think two would have been better. However, the berries were good in each case. But it was the foliage on the Bonora stimulated plants that attracted my atten-

tion, and led me to try it on some other plants. So, having a batch of miserable ferns, yellow half-starved subjects and thinking this would be a good test to either kill or cure them, I gave them an application of Bonora, and to my surprise, in a week after they received the first watering there was a decided change. The color returned, and the plants started to grow vigorously. I have given them two waterings, and they are now in splendid condition. I am convinced Bonora is a capital thing for all foliage plants.

I also saw fine results from its use this Spring on frame cauliflower, at Mr. C. N. Bliss' estate, where N. Butterbach is superintendent. Bonora was used on a half dozen plants, and they could be singled out from all the others by their dark, glossy foliage, having more substance and vigor. But the most marked difference was in the heads, which were much deeper and heavier than those of the other plants; in fact, the experiment brought about a remarkable distinction in favor of Bonora.

Mr. Kettel, superintendent for the Loeb estate, on the Rumson road, at Oceanic, N. J., has had very gratifying results with his palms by the use of Bonora. It puts that deep green into the foliage that makes the palm beautiful and admired by all. He also tells me that on account of making changes he had to sow down a part of his lawn this Spring, near the house, and being anxious to have it green as soon as possible, after the seed came up he gave one watering of Bonora. He is more than pleased with the results.

This substance is easily applied. One gallon of Bonora to one hundred gallons of water is the strength to use it. It is manufactured by the Bonora Company, with a laboratory and factory at Kearny, N. J.

WM. TURNER.

The following suggestions for using Bonora liquid fertilizer are supplied by the manufacturers:

"Use 10 parts of water to 1 of Bonora, for all plant life, vegetables, strawberries, grasses, palms, hothouse plants, etc.; that is, one gallon of Bonora makes 100 gallons. It should be put in a wooden vessel and kept where animals cannot drink it. Sprinkle it on the plant that it may reach the roots, using a sufficient quantity to soak through the ground. Do this twice, one week apart, the third application ten days afterward. You can judge for yourself whether another application is necessary after you have seen the results from the second and third waterings. The object is to have the fertilizer reach the roots.

"For trees of all kinds, peach, apple, pear, shade, etc., it must be diluted 75 parts of water to 1 of Bonora. Gravel or loosen the dirt around the roots, in order that the diluted liquid may soak well into the roots. Where this is done the results brought about are simply wonderful. The great quantity of compound nitrogen in this article creates a healthy, vigorous growth, giving new life to the plant or tree, and matures a crop two or three weeks earlier, and produces a long and lasting fruit-bearing plant or tree.

"Use a two-gallon double reinforced galvanized iron sprinkler. Where it is possible, have the end of the sprinkler pierced with about ten small holes, the surface in the center not larger than the size of a half dollar. By doing this you save a great quantity of liquid, as a sufficient spray comes out of the ten holes to reach the roots. Please report results directly to the New York office, 584 Broadway."

Glass Making Machinery Invented in Belgium.

United States Consul Roosevelt, of Brussels, Belgium, transmits the following from the London Daily Mail, relative to the manufacture of window-glass in Belgium by machinery invented by Emile Fourcault, honorary engineer of the mines at Lodelsart, near Charleroi:

The Fourcault machine turns out continuously sheets of glass 39½ inches wide, of any desired length and of a uniform thickness, varying from 1-15 to 5-16 of an inch. This glass can be obtained as rough glass for making extra thin glass, as horticultural glass, and as window-glass for certain export markets.

The machine is described as a box of fire-brick material floating on a "springing fountain" of glass. In the bottom of this box is a slit called the stretcher, and through this stretcher a sheet of plate glass is introduced into the molten mass. The molten glass adheres to this plate. When the plate is pulled up vertically, it is followed by a mass of molten material that wells up without effort. Once started, the molten glass continues to flow out in a sheet without the plate being dipped in the stretcher again.

The "springing fountain" in which the stretcher floats is a kind of pit, the walls of which are heated by the heat of the glass, and on the top of the pit is an apparatus for dragging the glass up and for annealing. This apparatus is simply a chimney to draw off the heat, in which there are about 17 pairs of rollers. The glass is lifted through these rollers by adhesion, and by the time it reaches the top of the chimney it is sufficiently cool to be cut with a diamond into desired lengths while still attached to the machine.

The operation of annealing—depriving glass of brittleness by allowing it to cool slowly—is at once difficult and capricious. The greatest importance of annealing in all branches of window-glass making lay in the fact that the plastic glass had to be manipulated by tools which were colder than the glass. It was and is by the older method a very delicate operation. The Fourcault machine does away with all this. Annealing is no more a necessity. The glass coming out from the "delivery box" cools and congeals gradually, and at a certain point has lost its heat. It is then that it comes in contact with the first lifting rollers, which are at the same temperature as the glass itself. Hence the glass appears at the top of the chimney perfectly flat, and possesses unequalled brightness on both sides.

As the Fourcault machine is particularly recom-

mended for its simplicity and for the saving of time and material it effects, it will no doubt become of great importance to glass manufacturers.

Society of American Florists and Ornamental Horticulturists.

Railroad Rates to Convention.

The Central Passenger Association, which controls the territory east of and including Chicago and St. Louis, has authorized a rate of one and one-third fare on certificate plan, in co-operation with rate announced by Trunk Line Association, for persons attending the S. A. F. convention at Washington, D. C., August 15-18, 1905.

Department of Plant Registration.

The Conard & Jones Company, West Grove, Pa., submit for registration Rose American Pillar. Described as plant of climbing habit; growth most vigorous; foliage very large and glossy; flower, clear, rosy pink, single, three inches in diameter, produced in enormous clusters and great abundance; very durable and fragrant.

Also, Rose Birdie Blye. Helene X Bon Silene. Described as an ever-blooming climber, producing clusters of blooms during the whole growing season; flowers, large, very double; color, beautiful rosy carmine and of delightful fragrance.

WM. J. STEWART, Secretary.



Michael Lynch.

As announced last week, Michael Lynch, of Menlo Park, Cal., died suddenly on May 27, 1905. Mr. Lynch's death was a severe shock to his family and friends. No man in that community was more highly esteemed and respected than he.

Deceased had an eventful and varied career. He was born in the historic County of Meath, Ireland, 58 years ago. As a mere lad he struck out to make his own way in the world, having no assistance but a strong will and determination to accomplish the task, and this he did with superior energy and hard work, gaining more than ordinary success. He went to London and entered the Royal Botanical Gardens, there to study botany. For four years he pursued his studies diligently. From there he went to the Botanical Gardens of Liverpool. Mr. Lynch also spent a few years at Kew Gardens, London.

With 52 guineas in his pocket, the amount he had received in prize money for his fine displays of chrysanthemums at a London Flower Show, he set sail for America. For nearly four years he was employed in the large gardens in New York, Jersey City, Philadelphia and Syracuse. While in New York, in 1875, he was married, and on his wedding day started for California. That year saw him in charge of the beautiful gardens of Major Rathbone at Menlo Park. The major was in the heyday of his success at that time, and his handsomely kept grounds were the admiration of all. He formed a strong attachment for Mr. Lynch that grew stronger with years, and ripened into warm friendship.

In 1880 James Flood, the bonanza king, had laid out his magnificent grounds and needed an expert landscape gardener to take charge. He selected Mr. Lynch for the work. Mr. Lynch did his best work there, and the grounds as originally laid out by him will always remain a monument to his memory.

In 1886 Mr. Lynch took charge of the Sherwood Hall Nurseries, owned by Timothy Hopkins. He with his usual energy raised the concern from small beginnings to a business of large proportions, so that when he retired the nursery was furnishing San Francisco with one-third of its floral supply.

About fourteen years ago Mr. Lynch began business on his own account and threw his whole soul into the project. Beginning in a small way he gradually developed it until he had one of the largest nurseries and the best paying business in the State.

During his life time Mr. Lynch drew about him many warm friends who loved him for his goodness of heart, finding in him one who was always ready with a helping hand to assist in some worthy beneficence. The funeral took place Tuesday morning, May 30, 1905, from his late residence, and was escorted to the Church of the Nativity by the Menlo Park Horticultural Society of fifty members. The cortege was one of the largest ever seen in Menlo Park. Over one hundred carriages followed the remains to their last resting place in Holy Cross Cemetery. The floral pieces were costly and many, showing the high esteem in which the deceased was held. The following old-time friends acted as pallbearers: Sydney Clack, Daniel Regan, James R. Doyle, David Tuttle, Thomas McIntyre and Matthew Crowe. A widow and nine children—four sons and five daughters—remain to mourn his loss.

A correspondent to whom we are indebted for the foregoing particulars writes: "Mr. Lynch was one of my best friends; every inch a man."

Window-Box, Porch and Veranda Gardening.

(Report of Committee of Hartford Florists' Club.)

Window-box, porch and veranda gardening, it would seem at present, is within the threshold of a successful era in this country, and it seems strange that this effective and comparatively inexpensive method of beautifying houses, especially in cities, has not been long ago more universally adopted and advanced, considering the long standing of this art of gardening in European cities, which are annually visited by thousands of American tourists. True, our climate here is not as favorable to such gardening as it is in London, for instance, where window-boxes are in evidence the year round, receiving from three to four different fillings as the seasons call for the different varieties of plants; but cutting out the Winter season, which with us is too severe to admit of the use of such plants as aucubas, euonymus and choice conifers as they are so effectively employed in England, there is no reason why our windows should not be adorned with beautiful foliage and flowers in almost inexhaustible varieties from the time when the crocuses and tulips break the ground, when pansies, forget-me-nots and daisies respond to the warmth of the welcome Spring sun, to the time when Jack Frost, the unmerciful, bereaves our fields, parks and gardens of the endless combinations of bright colors produced by plant life.

It may truly be said of most of our attractive cities that the creation and development of park systems all over the country has had a very far-reaching, beneficial influence upon the beautifying of home grounds through the residential districts of these cities, and it is quite natural that it should be so. Indeed, it would be a strange, unresponsive, cold people that would not take its lesson so easily learned

a way open and it should be taken advantage of to bring the gardening which we admire so much in the outer districts of our city to all parts of the city, through our business streets, to the homes of our less fortunate fellow-citizens, the homes of those of our fellow-beings that have to live in the crowded tenement districts.

We have spoken of the influence that parks have in any city on the public in general; now let us consider what the influence will be by the introduction of window, porch and roof gardening into the busy, monotonous life of a city. Imagine window and veranda-boxes loaded with foliage and flowers on our school-houses, municipal and business buildings and residences, vines growing over windows and hanging down over window sills and balustrades. What a beautiful sight, worthy of a beautiful, progressive city! Imagine window-boxes in all their glory of Spring and Summer flowering plants, not only screening the unsightliness of rows of tenement windows, but giving them from the inside and outside the cheerful, cozy appearance, which plant life alone can produce. Imagine the pleasure and joy of those under whose painstaking care the seeds are germinating to a seedling, the seedling to a full-grown plant, the plant producing the flowers; and imagine the pleasure those flowers give to all, and the feelings and sentiments they will in their turn germinate and bring into life among those people who in the pursuit of their daily hard labor are not so fortunate as to know of the pleasures of those who have their garden and yards. Imagine the good seed that will be sown into the hearts of the children of those crowded tenement districts, a seed that is bound to take root; for the soil in all human hearts is more or less alike and it depends upon the cultivation whether the seed entrusted to said soil will grow to be a useful plant!

Wishing to practice what we want to teach, the following plain instructions and information for the people who may wish to make a trial in window, porch and roof gardening may be of use:

Window-boxes are easily constructed and can be made at a small expense. Taking ordinary spruce or pine boards for the construction, the box should be made the length of the window's width, 6 to 8 inches wide and as deep. A box $3\frac{1}{2}$ feet long would therefore take about 12 feet of lumber, which would cost about 35c. The cost of labor, nails and two coats of paint should not be more than that much again, and the result would be a very plain but well constructed, durable box at a cost of 70c. The box should have six $\frac{3}{4}$ -inch holes in the bottom, which should be covered with broken pots, stones or some thing that will prevent the falling out of the soil, but still provide drainage. It will take about one bushel of good composted soil to fill the box, which could be delivered by any florist for 50c. The soil should be rich, composed in the main of rotted turf mixed with well-decomposed cow-manure, leaf-mold and a little sand. Now the box is ready for planting. Suppose the box was already on hand in the Fall, it could be planted, say, in December, with tulips, hyacinths and crocuses; planting the bulbs about 3 inches deep and keeping the box in a cool room, or cellar, with a fairly good light. Where the proper locality is not available, however, it will be rather difficult to obtain good results, as the bulbs are apt to grow too quickly, stretching toward the light and coming into bloom before they could be safely put outdoors. The box could, however, be placed at the inside of the window, and you would have your bulb display indoors; as the bulbs will not require too much watering, same could be given without damage to floors or furniture; besides, a tin or zinc box outside of the wooden box would take care of that.

A box of the size herein described would take 15 tulips, for the back row, 10 hyacinths for the middle row, and about 50 crocuses for the front and side rows, and the total cost of good bulbs would be from \$1 to \$1.50. Daffodils, jonquils, snowdrops, etc., could, of course, be grown in such boxes.

After the bulb display is over the bulbs can be taken up, and pansies, forget-me-nots and daisies can be planted. A good effect would be to have the forget-me-nots in the back toward the window, the pansies in front of them and a border of daisies in same position in which we had the crocuses. Ten forget-me-nots, 14 pansies and 20 daisies will fill the box nicely, and they should not cost more than \$1 for the lot.

By about June 1 it is time to establish the Summer planting, and for that purpose we have an almost inexhaustible variety of plants, and effects are obtainable by a proper selection to suit all tastes.

The following planting lists for window-boxes may be of use:

1. Cost of plants for one box, \$2.25. Two *Penisetum Ruppelianum*, 3 *heliotropes*, 2 *calendulas*, 4 sweet alyssums, 4 geraniums, 2 *Cobaea scandens*, 2 *maurandyas*, 2 *Centaureas gymnocarpa* and 2 fuchsias.

2. Cost of plants for one box, \$3. Plants: One *Dracæna indivisa*, 6 geraniums, 4 petunias, 4 *Vinca major variegata*, 4 German ivy, 2 fuchsias, 2 coleus, 2 verbenas, 6 *Begonia Vernon*, 2 marguerites, 2 nasturtiums and 2 lobelias.

3. Cost of plants for one box, \$5. Plants: Two *Phoenix canariensis*, 4 crotons, 2 geraniums, 2 fuchsias, 4 *Abutilon Savitzii*, 6 fancy begonias, 4 *Vinca major variegata*, 4 German ivy and 2 *Abutilon Eclipse*.

Other plants besides those mentioned in these three planting lists are, salvias, ageratum, hydrangeas, achyranthes, mignonette, dwarf cannas, gladiolus, tuberoses, zinnias, marigolds, stocks, etc. The same plants are, of course, also suitable for vases, baskets and tubs. This means well-filled boxes giving immediate effect. Planting thinner means a saving and a good, complete effect later in the season.

The boxes herein described are such as would naturally require the planting material to be furnished by the gardener or florist, and as plain as they are constructed, and as reasonable as are the prices considering the class of planting material used, they are above the means of the poorer classes of people living in the crowded tenement districts. Just as well, however, as boxes can be made more elaborate both in construction and in planting for people of larger means, so can also much cheaper boxes be made and planted, bringing them within the means of even the very poor. Where there is a will there is a way. The man or woman proud of their home can nail a box together of almost any kind of lumber, fill it with loam from a garden, or the fields, and fill same with annuals by planting seeds. Not counting the cost of self-provided labor, such a box can be made and filled with soil for 25c. or less, and the seed itself will be still less expensive.

Such seed boxes can be sown outdoors, beginning first week in April, and the following seeds can be used: Petunias, nasturtiums, zinnias, *Phlox Drummondii*, balsams, portulaca, scabiosa, marigolds, morning glories, asters, candytuft, cockscombs, godetias, poppies, snapdragon, violas, etc.

Each seed package gives information as to height, of plant, color of flowers, time of blooming and instructions for sowing, so that it will be an easy matter for anyone to form proper combinations of plants. A box can be planted with one showy variety alone, or with a combination of suitable varieties, and the cost of seeds for one box of one variety will be 5c. and for five varieties 25c., but the five packages in the latter case will furnish enough seeds for five boxes. Therefore window gardening is within the reach of all.



FIELD OF LILIUM DOEHL ON GROUNDS OF STEPHENS BROS., PAGET, EAST, BERMUDA

and within the reach of all; and the very fact that those lessons given have been so fruitful, bringing additional happiness and attractiveness to so many homes, should lead us on to further efforts to extend the cultivation of flowers at all seasons of the year at the homes of all.

The fact that the wind will blow the seeds of grass, of a shrub or even of a tree into the smallest crevice of a stone pavement, a stone wall or any almost inconceivable space, often too small to be noticed by the superficial eye, and that said seed will germinate, produce a plant which will live its term, should teach us that there is hardly a space, or location, which will refuse all conditions necessary to plant life, but that, on the contrary, with the help of painstaking care, adverse conditions can be overcome and plant life can be introduced and maintained everywhere where barrenness otherwise rules supreme.

We see now here and there well-filled window-boxes and vases on porches and verandas along residential streets, on houses, the front yards and often the back yards of which are already in themselves beautiful and attractive, and they are certainly becoming to the houses which they adorn, as tasteful and handsome as the architectural appearance and the surroundings of those residences may already be. Now, if those floral ornamentations are well placed here, and help to still more enhance the beauty of the already beautiful, how much more valuable must the same methods of beautifying and making more homelike the homes of all be in those parts of a city where there are no attractive front yards, lawns, flower-beds, shrubbery and trees, where there are the barren, formal brick walls, or where even the elaborate creations of modern architecture are unable to overcome the monotonous and tiresome impression which prevails in all the business and tenement streets of our cities? In other words, there is

Everything that can be done to create healthy, joyful life for the human race should be advanced through continued and united efforts of all citizens of a community.

We horticulturists florists and gardeners, following a time-honored profession, should look upon our calling not only from a pecuniary, commercial point of view, but we should take pride in the well-proven fact that our accomplishments and our labors of progress in our noble profession are bringing more universal and wholesome enjoyment to the human race in general than almost any other profession, and we should do everything within our power to further the good work which is within our reach.

The cultivation of taste, understanding and love for plants and flowers means the advancement of the people to a full appreciation of our achievements, and with said appreciation will come the commercial remuneration which we are deserving by following such principles.

The method of bringing those desirable conditions about are surely not as difficult as they may appear to be. In fact, we believe that the florists are mostly to blame that window-box, porch and veranda gardening is not further advanced than it is to-day. We believe that if the commercial florists would have completed window-boxes for sale, from the least expensive up to the most elaborate, there would be a ready sale for them within a very few years. We believe that if the professional organizations all over the country would publish, through the public press, articles giving plain instructions and descriptions how to proceed in this and other lines of horticultural and floricultural advancement, a general awakening to those desirable improvements would soon show itself, to the benefit of the community in general and the business interests of the florists in the end.

To our brother florists and gardeners, especially the commercial men, we would earnestly make the following recommendations:

First. To keep up to the times by growing and introducing such plants as are well adapted for such work, giving due recognition to all deserving varieties and novelties.

Second. To encourage this line of gardening by having some window-boxes tastefully planted on exhibition in front of their stores, ready for sale.

Third. To set the price for those plants at as low a basis as possible, so as to bring them within the reach of all.

Combined efforts along these lines will, we believe, result in a general adoption of window gardening, will bring happiness to numberless homes, and help to beautify our city in no small degree, and all will be to the ultimate benefit and satisfaction of the florists' business.

The whole respectfully submitted,
 THEODORE WIRTH,
 PETER A. ZUGER,
 CARL PETERSON,
 JOSEPH F. COOMBS,
 FRANK ROULIER, } Committee.

Lilium Doeii.

Our illustration represents a field of *Lilium Doeii*, on the plantation of Stephens Brothers, Paget, East, Bermuda. The evenness of growth of the plants will be seen at a glance. For that quality, Mr. Stephens says, he would strongly recommend the variety named, and *Lilium Harrisii* for earliness.

Notes from China.

After such a long silence it will, I hope, not be a disagreeable surprise to you to have a letter from me, this time from China. You may know that I have been delegated to start the new departure of L. Boehmer & Co. here at Shanghai. So far I have been very busy, and have succeeded in laying the foundation of a promising business.

Greenhouses and nurseries are no new things at Shanghai, the metropolis of foreign trade in China. We have a public (municipal) establishment here, which has done much to introduce the favorites from Europe and America, and which has been a kind of nursery also to the Chinese gardeners, who have learned to cultivate exotic plants under glass, and to adopt certain foreign ideas as to arrangement of plants and flowers. Nearly every residence here has a conservatory, which yields enough flowers for table and garden adornment. The English taste prevails, and we find geraniums, pelargoniums and a lot of hardy herbaceous plants, as well as masses of Paris daisies, primulas, cinerarias, callas, freesias and tuberose among the list, especially chrysanthemums in quantity, and in very fine form.

The native flora of China is, of course, very much the same as the Japanese. In fact, the latter may be regarded as coming from China. Gardeners—or let me use the misnomer so dear to your readers, "ornamental horticulturists"—are very few here. Every little piece of land is cultivated to yield some useful crop. Around Shanghai broad beans and cotton, barley, wheat, rice, cabbages, turnips, kohlrabi (quantities), a peculiar trefoil, which is used as a salad, spinach, bamboo (the young shoots being eaten), etc., but very little fruit of any kinds are cultivated. As the teachers of the Japanese, the Chinese farmers are cultivating their land very rationally. Everything is done by hand, and the manuring (human excrement) is keeping up a fertility which is really surprising.

Frugal as the Chinaman is, we find that he has plenty of leisure besides his garden work; and most of the coolies hereabout can till their garden after the hours they work outside for 25c. (12½c. United States money) a day. The natural effect of the farming industry is the disappearance of all tree-growth, with the exception of that in the temple yards and on graves, and in a very few gardens which are kept and planted by rich mandarins, and, of course, in those mountainous parts where gardening is impossible or very difficult. The scarcity of fuel during the rather cold Winters often drives the poor people into the country, where they gather a few branches from the wild growth of trees, and even dig out the roots of the grass, which they dry and burn. Further north I have seen the female portion of the families out on the bare hills, working eagerly to gather a little basketful of these roots to cheer their house, or, rather, hut, and to cook their frugal meals.

The climate and soil certainly tend to provide a most luxurious growth of plants. If it were only protected for a few years, many a bare-looking hillside would be green, and the reaction on the climate would no doubt much enhance the conditions of this country.

In Shantung, where I had occasion to visit some of the more desert parts, I found a natural growth of pines up to the very top of the stony mountains, but with all except the leading branch torn off. At the time of my visit, early May, I could only guess at the variety of plant life which is met with everywhere, but I was delighted with a few very pretty plants which might become very desirable ornamental subjects for our gardens. To mention only a few which would strike every florist or nurseryman as useful, I found a most lovely, single yellow rose, which I regret I cannot name. It looks like the single form of the pretty Persian yellow. It grows much like the *Rosa multiflora*, is very sweet-scented and most abundantly covered with flowers. Another novelty is a very pretty daphne species which grows among the rocks in the drier hills, rooting very deep. At first sight I took it for a dwarfed lilac. It has flowers exactly like those of the Persian lilac, is very fragrant, like the other daphnes,



MARECHAL NIEL ROSE IN 10 INCH POT IN THE GARDEN OF THE TONG TAOTAI, SHANGHAI, CHINA

and blooms the earliest of all shrubs. This whole country is full of lilies of many genera—*hemerocallis*, *lilium*, *nerine*, *narcissus*, *pardanthus*, etc., are met with everywhere in the meadows and hills. Of trees we have a remarkable variety, all of which are known in our gardens at home—*Pterocarya caucasica* (much planted in the foreign gardens; I fail to remember having seen any of wild growth), *salisburia*, lovely masses of *cunninghamia*, *Larix Kämpferi*, a most stately tree, with the straightest possible stems and regular top; *Quercus castaneaefolia* (so very easy to transplant), *Ulmus keyaki*, *juglans* of various species, *Magnolia conspicua* and *grandifolia* (the latter brought north from Canton), *persimmons*, *gleditschias*, *robinias*, *acacia*, *mulberries* (cultivated in masses for the silk worm); a very pretty *Sophora pendula*, masses of *lagerstræmia*, *punica*, *gardenias*, *azaleas* (in the mountains), a *Viburnum macrocephalum* (?), with immense heads of flowers; bamboos, etc. Of course, this list is what happens to come to my mind as I write, and gives an idea only of the pretty things which abound here. Later I shall point out those which seem of special interest.

About Peking and Tientsin, even, where the Winter is very cold and nearly without snow; where storms prevail and the dust storms certainly cannot favor plant growth, we find some remarkable things, some of which may interest planters of the United States. There is a bamboo which seems to disregard the climate

rigors, and pomegranates are favorites in the gardens. We find here again that the adversities of the climate have trained the gardener to more attentive cultivation, and on several visits I could admire their skill. For instance, in January I saw a cold frame made of mud and straw with a south window of paper, practically closed hermetically, full of the most perfect cauliflower. The structure is about two feet high, built of a bamboo frame, with mud and straw (mixed while wet) put on in thick layers. At night straw mats cover this greenhouse, and it is only opened from time to time to allow of watering, and to collect the fine heads.

At Tientsin I also saw a most successful culture of *Marechal Niel* roses. They seem to be the favorites and have been for many years. Every gardener has a few hundred pots. I enclose a photograph showing a specimen of a two-year-old plant in a 10-inch pot. The photo was taken in the garden of the Tong Taotai, one of the most influential mandarins at Tientsin, who is a genial gentleman with a great love for the garden. He is a thorough scholar and lived for some years in Washington. The little boy seen in the picture is his son, and the girl the amah who attends the boy. I also send you a photo of a part of Tong Taotai's new garden, although I am afraid it is too dark for reproduction. [Sorry this is so.—Ed.] The photo shows the Taotai, with some friends on the top of an artificial hill, which is always a feature in the Chinese garden. Another photo, showing a *Marmalade* rose growing in the open, is also too dull for reproduction, but may give you an idea of the fine growth roses make under careful treatment about Tientsin, although the soil there has the reputation of being almost sterile, owing to an excess of alkali.

Another curiosity of the Tientsin gardens are the most excellent chrysanthemums. I have not seen them in bloom, but every foreigner residing there claims the Tientsin chrysanthemums superior to those in other lands. The Tientsin gardeners graft all their chrysanthemums on a wild plant, which to me looked like the wild vermuth, but which I have not been able to identify correctly, owing to lack of time and specimen. On a visit in June, I found in the little fields of the "garden men" many a bed planted with this wild plant, and the grafts just newly fastened; and as the wind was rather dry, both hanging as if they were sure to die. But the garden men told me that there was no danger of losing any one of the grafts. These grafts are cultivated much like June cuttings in America to bear one, two or three fine flowers. It is remarkable, Mr. Editor, how varied are the methods by which cultivators obtain identical results, and from these older, if more primitive, gardeners we can learn much useful knowledge.

Since February we have had a pretty variety of blossoming trees, partly cultivated in pots for Chinese New Year, and mostly out-of-doors—*Calycanthus præcox* in January and later, the large peach blossoms, white, pink, variegated, and the dark, blood-colored ones were very effective. *Magnolia conspicua* is just through (April 29), and the trees about here were laden with snow-white tulips. We are now going into the peony season. Last year I missed this very interesting sight, but hope to be able to see some of the best gardens about Shanghai this year. I am told by Chinese amateurs that the Chinese collections are much finer than the Japanese, and am anxious to verify the statement. The Chinese pay much attention to peonies, and I have seen a few plants forced into bloom in pots as early as January. As far as I can judge from the little I have seen, the varieties are more like the very large Moutan sorts which are found in the fine collections in Europe, the double ones being preferred, while the Japanese are mostly single, though gorgeous in color.

Shanghai, China. THEO. ECKARDT.



ENTRANCE TO FIRST GARDEN LAID OUT AND PLANTED BY THEO. ECKARDT AT SHANGHAI, CHINA. A LITTLE POND WITH IRIS, AZALEAS, MAPLES, ETC.

New York.

News Notes.

The fifth annual outing of the New York Florists' Club, which will take place on Wednesday, June 28, at Glenwood on the Sound, gives promise of being one of the most enjoyable affairs the club has ever had. President F. H. Traendly, with the outing committee, is sparing no efforts toward making the occasion a memorable one in the history of the club's social affairs, and everything possible is being done to ensure both young and old a pleasant day's fun. The sail will be about twice as long in duration as the journey to Witzel's Point, and this feature will no doubt be the means of drawing a larger crowd even than we have had in previous years, as, after all, the sail on the water, while listening to the strains of the orchestral music, is the most delightful part of the day's enjoyment. Those who have not remitted for their tickets should do so to Charles Schenck, the treasurer of the committee, immediately, so that the necessary arrangements can be made as to dinner, etc.

In view of the insinuation directed at us by our esteemed Boston contemporary's editor, we beg to assure him that we ken nothing in his alleged advocacy of a credit limitation in the cut flower trade that we did not like, excepting the one glaring fact that the inopportune exploitation of the movement gave it its death blow, which was doubtless the intention, notwithstanding the seeming support afforded.

The sum of \$25,000 has been subscribed by some friends of the Brooklyn Institute of Arts and Sciences for the equipment of a botanic garden, for the purpose, primarily, of affording instruction in botany to the students of public and private schools. The garden is to be adjacent to the museum building, on the lands reserved by the city for a botanic garden and arboretum. A special committee, headed by former Mayor Charles A. Schieren, has been appointed on plan and scope of the proposed garden.

H. A. Molatsch & Son, who for many years have had greenhouses at Sixty-eighth street, Brooklyn, and who have been removing their plant gradually, have got located at their new home, Nanuet, N. Y., where they will continue the growing of plants and cut flowers for the New York trade.

Joseph Lubbert, a newly arrived florist, who is working for Francis Manker, Gravesend avenue, Brooklyn, came to town to see the sights last Sunday, and, listening to the wiles of two strangers he met at the Bridge entrance, was persuaded to look over the Bowery, landing in a saloon and being relieved of his watch and \$15 in cash—all he had. The thieves were arrested and are held in \$1,000 bail. Lubbert went home, minus his cash and watch, but with plenty of experience.

Emil Leuly, the Hoboken florist, who is noted for his long bicycle rides, has started on his wheel for California. He left the City Hall on Sunday, June 11, at 7.20 a. m., and reached Tannersville, N. Y., the same day, making a distance of 106 miles. On Monday, owing to bad roads, he did not do so well, the distance covered on that day being 66 miles. Mr. Leuly has usually attended the S. A. F. O. H. convention, traveling on his wheel. He made the Buffalo trip in that way, also the Asheville, N. C., the Milwaukee and the St. Louis trips. He certainly has a good method for taking a pleasant vacation.

James Weir's Sons, the prominent florists of Brooklyn, have just sold the lease of their Fulton street store, which is located at the corner of Elm place. The owner of the property is the purchaser of the lease, and the price paid is \$14,500. The Weirs have another large store on Fulton street, further downtown.

C. W. Ward, president of the Cottage Gardens Co., Queens, L. I., left on Wednesday forenoon for Chicago, to attend the annual meeting and exhibition of the American Peony Society.

Mrs. R. B. Holmes, proprietor of the Holmdale Greenhouses, a rose growing establishment at Madison, N. J., died at her home there last week. The interment took place Monday, June 12.

A souvenir postal card from Germany informs us that W. S. Lee, formerly florist and decorator at Sherry's, and later at the Hotel St. Regis, has, with his family, made a safe passage on the steamship Pretoria. We under-

stand that, upon his return in the Autumn, Mr. Lee will open a first-class retail store in New York.

The Burnham-Hitchings-Pierson Co. is among the new incorporations, with a capital of \$2,000,000, to manufacture and operate greenhouses. The incorporators are W. A. Burnham, Irvington, N. Y.; Lyman B. Crow, New York City; Henry F. Ford and Andrew Elder, Irvington, N. Y.; Chas. Armitage, Chas. G. Hall and E. W. Hitchings, Montclair, N. J.; Paul M. Pierson, Ossining, N. Y.; William Sefton, Jersey City, N. J., and Lincoln Pierson, Madison, N. J. We hope to give further particulars regarding the new concern in a future issue.

Robert Demcker, of Bogota, N. J., will sail for Europe on June 20. The trip is taken chiefly on account of his health.

William Todd Ludlow, who was well known on Long Island as a plant and tree salesman, was buried last Sunday afternoon from the Classon Avenue Presbyterian Church, the interment being in Greenwood Cemetery. The deceased was born in 1842 and leaves a widow, one daughter and two sons.

Asa L. Brown, of Kearny, N. J., a grower who attends the Clinton Market almost daily, had a birthday last Saturday, and the boys prepared a great surprise for him in the form of a layout and decorations around his own plant stand. Unfortunately, Mr. Brown did not attend that morning, and the efforts of his friends to surprise him were wasted.

The assignee of George Purdue, Orange, N. J., has sent out a statement which shows Purdue's liabilities to be \$5,694.84. Among the creditors are many well-known growers and wholesale florists.

Wm. Elliott & Sons will hold their third annual trade sale on Tuesday, June 27, at their auction rooms, 54-56 Dey street. This does not mean that they have been selling at auction for only three years; they have been having sales there for two generations or more. It only means that this is a particular sale, inaugurated two years ago, to give growers a chance to secure young decorative stock for growing on through the Summer months. Every grower who wants to utilize his greenhouse space profitably for the next few months will find it to his advantage to attend the sale.

John Scott is building six new greenhouses on his Flatbush property, each 100 feet long, and in all probability an additional six houses will be erected during the Summer.

Richard S. Sayer, treasurer of the Rider-Erierson Engine Company, and his wife were killed at Goshen, N. Y., on Wednesday while automobiling. They were passing over the Erie Railroad tracks and were struck by a fast train. Two young sons, who were with them, were both injured, perhaps mortally. The colored chauffeur escaped unhurt.

Mr. and Mrs. Geo. M. Stumpff left Wednesday for Europe and will spend the Summer at their country home on the borders of the Black Forest, Germany.

Seth Miller, of Dallas, Texas, was a visitor this week, and attended the club meeting on Monday evening.

The wife of S. S. Butterfield, of the staff of this paper, underwent a serious surgical operation in the Long Island College Hospital, Brooklyn, on Tuesday last. Mrs. Butterfield, we are glad to state, is progressing favorably.

Jeanie Birnie, the youngest daughter of John Birnie, whose Scotch dancing has been so much enjoyed on several occasions by the Florists' Club members, was a prize-winner last Saturday at the annual games of Clan McLeod, in Jersey City, being first for broad sword dance, and third for Highland fling.

J. S. Fenrich, one of our youngest wholesale florists, and Miss M. Le Mout, daughter of the veteran Bowery retail florist, were married on Thursday, June 8, at the home of the bride, in Tremont. The honeymoon will be taken next month. The young couple have the hearty good wishes of the trade.

Boston.

News Gittings.

The season this year is much later than last. At present such flowers as peonies are just beginning to bloom, while last year at this date they had all passed. Lilacs this year

were much later than a year ago, but as a florist's flower they were not nearly so much in demand. A year ago they were used extensively for wedding and other decorations, while this year they have had little call for such purposes. Outdoor roses are just commencing to bloom, the first outdoor General Jacquemot having made their appearance in the market. Bedding plants have been extensively grown and used this year. It is safe to say that this has been by far the best season that plant growers have ever seen. Geraniums have been greatly in demand; in fact, those sold at auction have brought much larger prices than expected.

Edward Macmullin is renovating his greenhouses at Norfolk Downs. He has plans out for the building of two more houses in the near future.

Southern huckleberry branches have been much used for decoration purposes. Henry M. Robinson & Co. say their sales of this material have been much larger than expected. This firm is also handling large quantities of hardy cut ferns.

Samuel Beck, the popular salesman at the Park street market for James Tulis, met with a rather painful accident while taking part in a ball game Saturday afternoon. The disappearance of some of his front teeth did not prevent him being on hand Monday morning as usual.

Jas. Farquhar expects to sail for Porto Rico to-day (Saturday).

The Gardeners' and Florists' Club hope to hold their picnic at Randolph's Grove on July 23.

N. Butterbach, Oceanic, N. J., is a visitor this week.

J. W. DUNCAN.

Chicago.

The Week's News.

A meeting of the wholesalers was called for Wednesday, to try and form a permanent organization, it being the belief that from such great benefit would accrue, as has been shown the past few weeks during the strike.

The Peony Society will open its annual show in the banquet hall of the Auditorium Hotel Friday, and continue over Saturday. The Society will hold both afternoon and evening sessions. From what can be learned, a large number of entries have been made.

Benjamin E. Gage, of Peterson's nurseries, is in attendance at the Nurserymen's convention this week.

Herman Schau is remodeling and enlarging his glass area.

Stollery Bros. have a sport from Mchet mignonette which they consider finer than anything on the market.

The meeting of the Florists' Club was not as well attended as expected. The report of the transportation committee was held over until a future date.

R. JOHNSTONE.

Pittsburg.

The Week's News.

Lightning caused damage of \$1,000 last week at J. Kletzley's place, in Oakmont; the barn was struck and destroyed.

Wm. P. Snyder, representing Edwards & Docker Co., of Philadelphia, paper box manufacturers, was in the city the past week.

The committee in charge of the outing of the Florists' Club next month is hard at work and promises to give the members a good time. Instead of going to the grounds where the picnic has been generally held, the affair will likely take the form of a boat ride up the Monongahela River to a pretty place to spend the day, with sports of all kinds, offering prizes, etc. The date of the outing has not yet been fixed, but announcement will be made a few weeks in advance; it will likely be about the middle of July.

E. C. REINEMAN.

St. Louis.

News Notes.

Carl Beyer met with a painful accident, running a rusty nail into his left hand.

Max Rotter was severely bitten by his large dog last week. The limb is greatly swollen. The dog was shot.

George Waldhart was visiting last week at Nick and John Himmer's place at Merrimac Highlands. Mr. Waldhart's place, at Clayton, is in fine shape this Summer. He was contem-

plating a trip to Europe, but will now content himself with the Washington, D. C., trip.

Wm. Ellison and his son Arthur returned from their Southern trip the past week. Both enjoyed themselves greatly. They brought back quite a collection of ferns.

James W. Dunford and W. J. Pilcher visited Fred Ammann at Edwardsville recently. They found him busy making alterations.

John Hudson and John W. Kunz, two prominent local florists at one time, called the past week on their friends in the trade. Both are looking fine and doing well in other businesses. Kunz carries the mail for Uncle Sam, and Hudson is in the mineral water business for himself.

George Ostertag is the proud father of a big baby girl.

Mrs. Wm. Ellison and daughter will spend the Summer among the Northern lakes.

Ed. Buechel and wife, of the Riessen Floral Co., will leave soon for a six weeks' stay up North, on a fishing trip.

Charles Young, with C. Young & Sons Co., will spend two months in New York this Summer after the Washington convention.

The picnic committee will most likely select Mollenbrock Grove, at Horseshoe Lake, on the east side. This, they say, is one of the best places for a private outing. Everything is there, including bowling alleys, plenty of fishing and room for all kinds of sports.

Bowling.

The florist bowlers rolled a few games on Monday night. The cool evening brought out seven members. Of these, Bencke rolled six games, making 1,115; Kuehn, 919, and Getlach 855. Lohrenz rolled five games making 691; Meinhardt, four, 531; Ellis, three, 423, and Adels, three, 374.

ST. PATRICK.

Indianapolis.

An Outing.

Tuesday, June 2, was spent in a most enjoyable manner by about fifteen Indianapolis florists as guests of their Richmond, Ind., brothers. The interurban limited was met at E. C. Graves' establishment by Fred Lemon, John A. Evans, E. Graves and others. Mr. Graves' place, with its large range of carnation and rose houses, made a most favorable impression. After the party had been decorated with an equal number of large American flags by Mr. Evans, they were invited to Cedar Grove Club house for luncheon.

Immediately after the State Florists' Association was called to order by President Lemon, but as the day was promised to be filled with enjoyable events, business was immediately disposed of. A large part of the afternoon was spent in bowling and watching an interesting shooting contest.

E. G. Hill's place, with its great variety of stock, was visited later in the afternoon. Dinner was partaken of at the hotel, bringing to a climax the mirth and humor prevalent with the party during their stay. The writer has been asked time and again to express through The Florists' Exchange the appreciated efforts of the Richmond florists.

The premium list for the Fall flower show is to be much heavier than the preliminary list indicated. Subscriptions for the show are exceeding all expectations for so early a date, therefore its success, from a financial standpoint, is assured. Backed by such growers as E. G. Hill, of Richmond; W. and M. S. Vesey, of Fort Wayne; F. Dorner & Sons Co., of Fayette, Ind.; Gunner Theilman, of Marion; Stuart & Haugh, of Anderson, and many other growers in the surrounding states, Indianapolis will be certain to surpass her former efforts in this line.

John Bertermann and daughter Emma have returned from their European tour.

Visitors: Mr. and Mrs. Chas. A. Riegan, Connerville, Ind.; B. H. Klus, Anderson, Md., and W. Rolker, New York.

I. B.

ROCKFORD, ILL.—The Garland Company, of Chicago, has been awarded the contract for the structural iron work on the big greenhouse to be erected by the Buckbee Seed Company on Buckbee street.

Review of the Market

NEW YORK.—Business in cut flowers has failed to improve any, and prices all around have a downward trend. Judging from past years, we confidently expected that a better market would have prevailed this week; but the supply of stock has kept in advance of the demand, and a general weakening in values is the result. Peonies are not nearly so plentiful as they were last week, but there are enough, and low prices rule. Carnations continue to be both abundant and good, and averages will be lower than those of a week ago. There is more than a full supply of roses; and, while there are plenty on hand that are mildewed, there is also an ample stock of good, clean flowers to fill all requirements. Lily of the valley has not met with the call it did last week, and, as a consequence, the price has gone down considerably.

Cattleyas move with just enough vigor to keep the prices stationary. Lots of lilies are coming in, and the crop of sweet peas seems to be growing heavier, much to their detriment. Of cornflowers, iris, coreopsis, gladiolus and spiraea, there is a regular abundance, but no fixed prices rule with this stock. Asparagus and smilax are not selling so well, no doubt owing chiefly to the prevailing style of using oak leaves and other outdoor material for garnishing purposes.

BOSTON.—There has been practically no change the past week in market conditions; some days a lively business would be done, while the following morning would see goods hard to move at any price. Bride and Bridesmaid roses are poor in quality, and bring small figures, while a good many fine Souvenir du President Carnot and Kaiserin Augusta Victoria are in from houses that have kept cold during winter. These command a fairly good price, \$6 to \$8 being the average for the best stock. A very good size of Liberty are also plentiful, and are much sought after, and likely to take the place formerly held by General Jacqueminot.

Carnations are very good, considering the season; especially fine are some of the Mrs. Patten and Fair Maid varieties. They do not realize large prices, however, for good stock can be bought at 300 for \$1. White carnations are a glut at the present time. Peonies are beginning to get plentiful, and sell fairly well. Some good lilies are yet in the market, but there is not a great demand for them. Sweet peas have dropped in price, although the quality is somewhat improved. Lily of the valley remains about the same as a week ago. Many other flowers, such as candytuft, stocks, etc., are brought in in quantity, but there is little demand at this season for that class of stock. Decorative greens have been selling well, having been in demand for wedding decorations during the month. J. W. D.

CHICAGO.—Trade during the past week has been more erratic than is usual at this season. The local demand has been unprecedentedly light, more so than is usually experienced during the month of June. All the principal retailers are complaining of the lack of trade. This can be traced to the effects of the labor troubles, and there is no possible chance for business to regain its normal condition during the present season, as, from indications, the labor difficulties will continue through the Summer. Shipping trade has held up fairly well; if it were not for this part of the business, the situation would be considerably worse than it is.

The supply of American Beauty roses has shortened up considerably, and the quality has deteriorated greatly the past few days; a further shortage is looked for before the regular Summer crop commences to be cut. Prices range from \$3 to \$32 per 100, according to quality. Bride and Bridesmaid roses are not arriving in such large quantities; those of any quality at all bring a good price. Bride have suffered most from the effects of the warm weather. There has been a good demand for Perle des Jardins, at good prices. Meteor has sold fairly well. Liberty has been in demand, at from \$3 to \$16 per 100. Kaiserin Augusta Victoria is now coming in in fine condition, meeting with ready sale at from \$3 to \$8 per 100.

Carnations are showing the effects of the warm weather; the flowers are coming in freely, in fact, a heavy supply has prevailed for the past week or two, with the demand not over brisk, except for shipping and street trade.

Lilies have not been much in evidence lately. Sweet peas are in abundance, with but a light call for them. Peonies from outside are nearly over; those now coming in are from cold storage, selling at from 35c. to 75c. per dozen. R. J.

CINCINNATI, O.—Business remains good and stock, excepting tea roses, is coming in very nicely. American Beauty still stands in the lead; carnations, second, and peonies third. Stocks are now coming in, selling at 2c. to 3c. per spike. Fancy Western ferns bring \$1.50 per thousand. E. G. G.

INDIANAPOLIS.—An unusual quiet prevailed in the business last week, but this one, so far, has been as busy as the other was quiet. Though none of them are large, there are a number of wedding decorations on hand. Funeral work is exceedingly heavy, and good stock is scarce. The local supply is not nearly equal to the demand, so that many carnations and roses are being shipped in. Flowers such as feverfew, candytuft and lilies, which were plentiful last week, are entirely off the market, so that about the only reliable stock available are sweet peas, lily of the valley and roses. Large quantities of the latter are being used this week for graduation purposes. Select Bridesmaid and Bride are conspicuous by their almost entire absence; the few sold bring \$5 to \$6 per 100. Kaiserin Augusta Victoria, of good quality, are being received, selling at \$7 a hundred. Mme. Abel Chatenay, with some growers, is proving a worthy rose, excelling all others in quality at this season. The best bring \$3 to \$10 a hundred. Souvenir du President Carnot is off crop. Select La France sell at \$3 a hundred. The demand for American Beauty and Liberty is unusually heavy, the former sell at \$5 to \$25 a hundred, the latter \$6 to \$10.

The so termed "fancy carnations" are scarce at \$2.50 a hundred, with the exception of white; medium grades may be had in quantities at \$2. Field-grown sweet peas sell well at 50c. Many field daisies are brought to Tomlinson Hall Market and wholesaled at 20c. a hundred. I. B.

ST. LOUIS.—Trade the past week has been fairly active, school closings, weddings and funerals consuming a large percentage of the stock received. After this week business will not be so lovely. The weather is becoming too warm.

At the wholesale houses about the only scarcity at present is in white roses and extra fancy long American Beauty, which command \$3 to \$4 per dozen. There seems to be plenty of Bridesmaid, Meteor, Liberty, Golden Gate and Souvenir du President Carnot, which run as high as \$6 per 100 for the best. Carnations are becoming small, with abundance for the demand, at 2c. for choice; second grade bring \$1, and common 75c. per 100. Sweet peas are a glut; good, choice stock goes for \$2 per 1,000. Lily of the valley has been selling well at \$4 per 100 for choice. Candidum lilies, cornflowers and daisies make up the daily supply. Smilax is selling well; fancy ferns are a little scarce; most of the florists use dagger ferns at present, at 15c. per 100. ST. PATRICK.

WASHINGTON, D. C.—There has been considerable business this week, the funeral of General Boynton, chairman of the Associated Press, and that of Bereah Wilkins, of the Washington Post, making the florists unusually busy. There were also several weddings, which helped out considerably. The supply of outdoor flowers has had a tendency to lower the price of indoor stock. Very good American Beauty could be had for \$2 to \$4; Bride, Bridesmaid, Golden Gate, Ivory, Meteor and Liberty bring from 75c. to \$1.25 per dozen, while Kaiserin Augusta Victoria and Souvenir du President Carnot realize from \$1 to \$1.50. The best carnations sell at from 25c. to 50c.; peonies, 75c. to \$1.25 per dozen; sweet peas, 10c. to 25c. per bunch; coreopsis, 25c. per bunch, and gladiolus, 75c. to \$1.25 per dozen. There is little or no demand for plants in pots. M. C.

FIRMS WHO ARE BUILDING.

MINNEAPOLIS, MINN.—John Monson is building a greenhouse 100x150 feet.

NORTH BEVERLY, MASS.—George W. Glines has begun the erection of another greenhouse.

MILTON, IND.—Oliver Moore is putting up a new greenhouse here. He will grow vegetable plants.

ALLENTOWN, PA.—Al Griesemer, 24 North Fourteenth street, contemplates the erection of greenhouses on his lots at Twenty-first and Linden streets.

CATALOGUES RECEIVED.

J. M. THORBURN & CO., New York.—Wholesale Price List of Turnip and Other Vegetable Seeds, Mushroom Spawn, etc.

THEODOSIA B. SHEPARD COMPANY, Ventura, Cal.—Descriptive Price List of Everbearing Crimson Winter Rhubarb, also giving full cultural information.

ANDRE LEROY'S NURSERIES, Brault & Son, Directors (Andre L. Causse, New York City, Agent), Angers, France.—Price List of Fruit, Rose and Forest Tree Stocks, Ornamentals, Magnolias, etc.

CHANGES IN BUSINESS.

TRAVERSE CITY, MICH.—Fritz Carter has sold his business to F. M. Paine.

KANSAS CITY, MO.—The Harvey Floral Company has opened a flower store here under the personal supervision of Mrs. Lena Harvey.

HAVRE, MONT.—L. F. Foster has bought a half interest in the Havre Floral Company. Two greenhouses, 18 x 100, are now being constructed.

HAVERHILL, MASS.—The Emerson floral store at the corner of Winter and Pleasant streets, has been closed, and the fixtures transferred to the new store on Merrimack street.

BOSTON, MASS.—The Halifax Flower Company has been incorporated; capital, \$5,000. President, Julian P. Dunn, No. 35 Rutland Square, Boston; treasurer and clerk, Thomas L. Kelley, No. 187 Highland street, Roxbury, Mass.

SPRINGFIELD, MASS.—M. S. Donoghue, of St. Johnsbury, Vt., has bought of the estate of the late E. H. Howland, through the administrator, the Howland property, located at the corner of Oak and Appleton streets, comprising a considerable area of land, together with the good-will, etc. The sale price was \$23,000. Mr. Donoghue is an expert florist and has been successful in his work in Vermont. The Howland stand has been in existence many years and has a well-established trade.

MACON, GA.—The Idle Hour Nurseries have been reorganized, with D. C. Horgan in active charge of the business. Mr. Horgan has been identified with Maccon's interests for a number of years, and is well known to the people of the city as a capable and industrious gentleman. It is his intention to establish and maintain for the nurseries the reputation for the foremost of its kind in the Southern country. Mr. Grimshaw is retained as decorator, designer and manager of the city headquarters, 109 Cotton avenue. The "Woman's Exchange" will continue to co-operate with the nurseries in serving the public.

CANADIAN NEWS

LONDON, ONT.—Store trade is now confined to June weddings, and is about equal to that of former years. Flowers of all kinds are very plentiful and good; the continued absence of any very hot or dry weather no doubt having a great deal to do with the fine quality. The demand for bedding plants continues excellent, and some stock, noticeably S. A. Nutt geraniums, are reported getting low. As regards the varieties in favor, as usual, geraniums are leaders, and of these probably more could be sold of S. A. Nutt than of all other kinds combined. Other varieties in favor are Trego, John Doyle, Marquis de Castellane, (scarlet), Jean Viaud (pink), Beaute de Poitvine (salmon), Mme. Buchner (white). A few singles are grown, but the demand for them is extremely limited; in fact, it seems as if this latter class could be eliminated. Nothing is done in the fancy leaved varieties, in the scented, or in the miniature sections. Mme. Sallerol, for use as a border plant, is very popular. Prices are holding firm; for good 4 1/2-inch plants, \$1.50 per dozen, retail; \$10 per 100, wholesale.

Coleus, as foliage plants, are the leaders, and of these Verschaffeltii and Golden Bedder are the two most popular varieties, being mostly used in conjunction, and edged with Mme. Sallerol geraniums. A few more standard varieties of coleus are grown, but many sorts have been discarded, not having proved successful in the open. The most popular size seems to be about 3 1/2 or 4-inch. Cannas still are favorites with many, but a decided preference is shown for the solid colored, dwarf, bright kinds, such as Express and Alphonse Bouvier. The former, by the way, will, when better known, be a general favorite. Dahlias hitherto rather neglected, seem to be rapidly regaining a place in public favor, probably through the efforts of the local horticultural society. Salvias, the dwarf varieties for preference, are being more used than formerly, care being taken to discourage, wherever possible, their use in shady or wet situations. Alternantheras, and such like fancy bedding plants, seem to have passed the height of their popularity, and, except in isolated cases, are rarely called for.

A general summary of the whole situation is, that the demand runs along

very narrow lines. Only one or two of the best varieties or colors of each sort are absolutely necessary, but these, to sell, must be in the best of condition, dwarf and bushy. These conditions fulfilled, very little complaint is heard of the prices.

Window boxes and hanging baskets are being used in largely increased numbers this year, and many excellent displays are seen. Wherever possible, the system of buying the plants and filling the boxes, etc., at home, is discouraged, as tending to injure this line of trade. Very few people seem to have any idea as to how these matters should be done, although quick enough to detect any mistake in the greenhouse filled article.

The city has been passing through one of the fiercest and most bitter political campaigns in the history of the country. Happily, this terminated today, and will no doubt have a steady effect on trade. FRED. BENNETT.

TORONTO.—Business in plants this Spring has been very good. The season for bedding plants started very late, and the weather has been changeable, with rainy days coming often. This has made bedding out work somewhat unpleasant, but has been generally good for stock planted. Nearly all classes of bedding plants have brought better prices this Spring than usual, but some of them are still unremunerative. There is still considerable stock in sight, but most of it is not first class.

The demand for cut flowers has been also very good, but the cold, wet weather has had a bad effect on a good many of the roses, a quantity of the stock coming in being spoiled by mildew. Carnations are generally good. Large quantities of outside flowers have been used. Lilac, especially white, has been in great demand. Peonies this season are rather late; they have been often called for, and so far only the red ones have been seen. In some shady places tulips are still in bloom. Carnations planted out are growing rapidly. THOS. MANTON.

MONTREAL.—A special committee of the Gardeners' and Florists' Club is busily engaged now in arranging for the reception of the Canadian Horticultural Association, which will meet here in convention in August. It was decided at the last meeting of the club that its annual picnic will be held at Otterburn Park, on Wednesday, July 19. A resolution of sympathy with the family of the late James Cochrane was passed. Mr. Cochrane had been an associate member and active supporter of the club for years.

Paterson, N. J.

Wm. Thurston, the Van Houten street florist, was the lucky man this week. He had a large and remunerative order from out of town for the funeral of a popular local fireman who had succumbed to an attack of spinal meningitis. One of the many designs was an 8-foot monument of carnations and roses, which was a credit to Mr. Thurston.

GRAND RAPIDS, MICH.—On June 9 Max Goebel, a florist, was the victim of a murderous assault by two highwaymen at Reed's lake at 11 o'clock while passing through a shady grove. He was struck down with a "billy," his nose smashed and head cut open. The highwaymen relieved him of a solid gold watch and \$15.

SPRINGFIELD, O.—John M. Good, a former mayor of the city, and president of the Good & Reese Floral Company, has given the Snyder Park board 15,000 rose plants for the adornment of the park.

GO ON DO IT GET OUR BOOKLET
"THE WALKER TREE AND TELL HOW TO KILL"
ALL APHIS
IN A HOUSE 100X25 FOR 10 CENTS
H. A. STANTHOFF CO.
116 West St., New York City

CHRYSANTHEMUMS

From 2 1/2 in. and 2 3/4 in. pots.

A. J. Baltour, G. W. Childs, Golden Wedding, Miss Alice Byron, Dr. Engehard, Merza, Mayflower, Yellow Falcon.

Price from 2 1/2 inch pots, \$4.00 per 100.

Col. D. Appleton, Mrs. McArthur, Monrovia, Mrs. Barclay, Maud Dean, Mrs. Coombs, Nagoya, Soleil d'Octobre, Snerbera, Silver Wedding.

Price from 2 1/2 inch pots, \$3.50 per 100; \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Collingfordil, Dorothy Devene, Glory Pacific, Harry May, Harry Parr, H. V. Reiman, J. E. Lager, J. H. Troy, Mrs. Jerome Jones, Meta, Minnie Wamsaker, Mrs. Baer, Mrs. S. T. Mardock, Miss M. M. Johnson, Major Bonaffon, Mrs. Humphrey, Mad. Fred Bergman, Niveus, Polly Rose, Ross Owen, Thomas H. Brown, Timothy Eaton, Xenia.

Price, from 2 1/2 inch pots, \$3.00 per 100; \$25.00 per 1000.

ROSES

Hermosa, La France, Clothilde Souper, Crimson Rambler, from 6 in. pots, strong \$25.00 per 100. Hardy and everblooming vars. 2 1/2 inch, \$4.00; 3 1/2 inch, \$12.00; 4 inch, \$16.00 per 100.

GRAFTED FINE STOCK

Bride, Bridesmaid, Golden Gate, Carnot, Katherine, Testout, La France, Wootton, Waterville, Albany, from 3 inch pots, \$15.00 per 100. Killarney, from 3 in. pots, \$18.00 per 100.

WOOD BROS., Fishkill, New York

Mention The Florists' Exchange when writing.

ASTER PLANTS

Queen of the Market, Semple's branching, fine plants, 40 cts. per 100; 300 for \$1.00; \$2.50 per 1000.

J. C. SCHMIDT CO., Bristol, Pa.

Mention The Florists' Exchange when writing.

SALVIA SPLENDENS

A fine lot, about 2000, in 2 and 2 1/2 in. pots, at 2 cts. Cash with order.

Will exchange for Vinca Variegata for stock.

H. M. WOUNDY, New Canaan, Conn.

Mention The Florists' Exchange when writing.

GERANIUMS \$10.00 and \$12.50 per 1000.

Three acres planted for stock, rooted cuttings in any quantity after September 1.

I will guarantee them to reach you in good growing condition, and would like to book you or order now. Send for list.

ALBERT M. HERR, Lancaster, Pa.

Mention The Florists' Exchange when writing.

GOLEUS

Verechaffeltii, Golden Bedder and others, 2 in. pots, \$1.50 per 100; \$15.00 per 1000. Ageratum, Stella Ourney, 2 in., \$1.50 per 100. Salvia, 2 in. and 2 1/2 in., \$2.00 and \$3.00 per 100. Alternanthera, P. Major and A. Nans, 2 in., \$1.50 per 100; \$15.00 per 1000.

Geranium, S. A. Nutt, 2 in., \$2.50 per 100; 3 in., \$3.50 per 100. Pansies, in bloom, 75c. per 100; \$5.00 per 1000. Cash with order.

ERNEST HARRIS, Delanson, N. Y.

Mention The Florists' Exchange when writing.

IN BUD AND BLOOM

Geraniums, mixed, good varieties, 3 1/2 in. pots, \$5.00 per 100. Heliotrope, Chieftain, 3 1/2 in. pots, \$5.00 per 100. Verbena, 3 in. pots, \$2.50 per 100. Petunias, single large flowering, 3 in. pots, \$2.50 per 100. Ageratum, dwarf blue, 2 1/2 in., \$2.00 per 100. Salvia Splendens, 2 1/2 in. pots, \$2.00 per 100. Cobaea Scandens, 3 in. pots, \$2.50 per 100. Thunbergia, mixed, 2 1/2 in. pots, \$2.00 per 100. Heliotrope, 2 vars., 2 1/2 in. pots, \$2.00 per 100. Vinca Variegata, 2 1/2 in. pots, \$2.00 per 100. Rose, Ormeon Rambler, fine, 2 1/2 in. pots, \$4.00 per 100. Cash with order.

WM. J. CHINNICK, Trenton, N. J.

Mention The Florists' Exchange when writing.

SURPLUS STOCK

2500 GERANIUMS, dark red, scarlet, bronze, silver leaf, Mme. Sallerol. 500 CANNAS, mixed. CALADIUM ESCULENTUM, 4 in., 6c.; 6 in., 10c. ROSE GERANIUMS, SALVIA, HELIOTROPES, LEMON VERBENAS, PHLOX DRUMMONDI, 4 inch, \$6.00 per 100. CENTAUREA GYNNOCARPA, ZINNIA, MARGUERITE CARNATIONS, 2 in., \$2.00 per 100. ASPARAGUS SPRENGERI, 4 in., bushy, 10c.; 2 in., bushy, \$2.00 per 100. ASPARAGUS PLUOSUS, 2 in., bushy, \$3.00 per 100. ALTERNANTHERA, red and yellow, \$1.50 per 100. 3,000 ECHEVERIA SECUNDA GLAUCA, \$3.00 per 100. 300 FUCHSIAS, assorted, \$6.00 per 100.

CHARLES L. STANLEY, Plainfield, N. J.

Mention The Florists' Exchange when writing.

Own Root ROSES Fine Stock

Bride, Bridesmaid, Golden Gate, 2 1/2 in. pots \$4.00 per 100; \$38.00 per 1000. 3 in. pots, \$7.00 per 100; \$60.00 per 1000.

MISCELLANEOUS PLANTS

READY FOR IMMEDIATE SALES.

Table listing various plants like Alternanthera, Ageratum, Cuphea, Coleus, Caonaa, Ivy, Fuchsia, Heliotrope, Geranium, Lantana, Moonflower, Pepper Plants, Salvia, Tritoma, Tropaeolum, Verbena, and Violets with prices per 100 and 1000.

CANNAS Started, strong plants

Allemanin, Austria, Italia, P. Marquant, Robusta, etc., \$3 per 100. Dahlias, Strong Bulbs, Beet Out Flowers named, \$3.50 per 100. Shellroad Greenhouses, Grange P. O., Ballo, Md. Mention The Florists' Exchange when writing.

ROBT. CRAIG & SON

JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS

CARNATIONS and Novelities in DECORATIVE PLANTS

Market and 49th Sts., PHILADELPHIA, PA.

Mention the Florists' Exchange when writing.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Mention The Florists' Exchange when writing.

VERBENA

Table listing Verbena varieties like Mammoth, Scarlet Sage, Doubled Fringed Petunias, Vinca Variegata, Greivillea Robusta, Coemoss and Aster Seedlings, Cryptomeria Japonica with prices.

E. I. RAWLINGS, QUAKERTOWN, PA.

Mention The Florists' Exchange when writing.

Salvia Splendens, Bonfire, extra strong, 2, 3, 4 in., \$1.00, \$1.50, \$2.00 per 100. Verbena, 2 to 3 in., blooming, 75c. to \$1.50 per 100. Coleus, yellow, C. Verechaffeltii and mixed; Alternanthera, red, yellow; Lobelia, Ageratum, strong, 2 1/2 in., \$1.25 per 100. Begonia, Vernon, mixed and separate, 2 to 3 in., \$1.50 to \$2.50 per 100. Petunias, blooming, finest fringed, 3 in., \$1.50 per 100. Geraniums, Double Gen. Grant, Ricard, Poltevine, Nutt, 3 in., \$3.00; 4 in., \$4.00 per 100.

WM. S. HERZOG, Morris Plains, N. J.

Mention The Florists' Exchange when writing.

ASPARAGUS SPRENGERI

Extra strong 2 in., ready to shift or plant in benches, \$2.50 per 100; \$20 per 1000. Sample, 5c.

PANSIES Fine, strong plants, mostly in bloom, \$1.50 per 100; \$10 per 1000.

DEAN FERRIS, Peekskill, N. Y.

Mention The Florists' Exchange when writing.

MODEL EXTENSION

Carnation Supports

ALSO

Wire Rose Stakes and Tying Wire

160E BROS. Manufacturers, Brooklyn, N. Y.

Mention The Florists' Exchange when writing.

THE WEEK'S WORK.

Timme's Timely Teachings.

The Plant Trade.

The business in plants of all kinds has been excellent this Spring—better than in any previous year, better than we had expected. The season of greatest activity in this line of trade is now coming to a close, and most of the greenhouses, crowded to overflowing but a few weeks ago, look bare and empty, while street-fronts, private and public grounds, balconies and verandas all over town and suburban districts have been converted into a sea of verdure and blossoms. In some of the leading lines much more stock could have been sold, had we had it. Not only were more plants disposed of this season than ever before, but the average quality of the stock gave evidence of a greater skill and more care exercised in its raising. So also were the prices obtainable for the better and best grades considerably higher than in former years.

Greenhouse Building.

Whenever the demand for any commodity exceeds the supply thereof, it naturally follows that producers will strive to equalize conditions by providing additional facilities for the bringing forth of an ample output in the future. Florists are not at all slow in learning their lessons, but timidity and a lack of the speculative spirit are among the faults of some of the minor retail growers. To build or not to build? is now the question which agitates the minds of most florists, especially those at the head of the smaller and medium-sized concerns. These, in the rush of Spring trade, have had, until now, but little time to devote to the planning of new structures; in fact, are only now ready to face the question whether to build or not. At this season of the year the erection of new greenhouses is a pleasant piece of work, and there is yet plenty of time to carry to a timely finish any such undertaking.

A good many growers, situated as I am, are closed in and surrounded on all sides by stately residences—a location guaranteeing profitable business and excellent trade, but debarring them from any further expansion or enlargement of their establishment. These men, if build they must, can only do so by tearing down old structures to make room for the new, and this, indeed, becomes necessary often enough and provides ample opportunity for all-around improvement and for the gratification of the average florist's restless building impulse.

If the several letters of inquiry and matter pertaining to this subject which reached me through the mail seemed in any way to invite suggestion or expression of opinion from me, I should say there is wisdom in putting up new greenhouses where the proper room for them is not wanting and where they are badly needed to bring the business up to the exactness and requirements of a fast-growing trade. Any retail grower, fully convinced that he could profitably dispose of more stock than he now is able to raise, should add to his glass area without much delay.

The interest on the money thus invested in glass houses for the improvement of a retail establishment and the promotion of a local trade, can not so readily be estimated in dollars and cents as the earning capacity of a new range of houses erected by the wholesale grower. But while the large range of new glass is being looked upon as merely a business proposition, a more or less risky venture, the retail grower's new

GERANIUMS

S. A. Nutt, 3 in. pots, \$4.00 per 100; \$35.00 per 1000. 2 1/2 in., \$2.00 per 100; \$20.00 per 1000.

PETER BROWN

Lancaster, Pa.

Mention the Florists' Exchange when writing.

English Ivy

4 in. 2 plants in a pot, \$7.00; 2 1/2 in., \$2.50. English Ivy Variegated, 2 in., \$2.00. Vinca Var. Major, 2 in., \$1.75. Rooted cuttings, 75c. German Ivy, 2 in., \$2.00. Glechoma, 2 in., \$2.00. Sweet William, 2 1/2 in., \$2.00. Coleus, Golden Bedder and Verechaffeltii; Verbena, 2 in., \$2.50 per 100. SEEBLIND'S Gleditsia, large fl. mixed Sweet William, double mixed; Cosmos, tall; mixed; Hollyhock, mammoth; extra choice mixed; Pansy, extra choice mixed; Aster, Imp. Victoria, blue; Aster, Imp. Victoria, White, 25c. per 100. Cash on C. O. D.

J. H. DANN & SON, Westfield, N. Y.

Mention The Florists' Exchange when writing.

structures were a necessity, a needful improvement, wisely invested capital and a telling forward move.

To build new greenhouses nowadays is not at all a laborious undertaking. The greatest part of the most particular work is done by the mill. It is easily and quickly framed and set up. It is real fun to build a new greenhouse, and a delight to conduct gardening operations in a new, well-planned house. My advice is to build large enough, while you are at it; to build plain and simple, but substantial; to avoid all frills and unnecessary ornamentation; to have your plans well and thoroughly thought out in every detail before you order the material, and to let this be of the best and most durable that can be had.

Greenhouse Benches.

I have been asked repeatedly of late what sort of a bench I consider the best, whether the one framed of wrought or cast iron, or the one solidly built up of brick, cement or concrete, or the old-fashioned wooden affair, now so much in evidence everywhere. This important question often comes up, and is ever an opportune subject for discussion. I have in my time made use of nearly every

ASTERS FIELD-GROWN

Comet Giant, mixed; Semple's white, pink, purple and lavender, 40c. per 100; \$3.50 per 1000.

CABBAGE Field grown, ready to plant out: Express, Wakefield and All-Head, 75c. per 1000, to close out. Cash.

BYER FLORAL CO., Shippensburg, Pa.

Mention The Florists' Exchange when writing.

GERANIUMS In. pots, \$8.00 per 100. Salvia Splendens and Bonfire, 3 1/2 in. pots, \$4.00; 2 1/2 in. pots, \$3.00 per 100. Centaurea Gleditsia, 2 1/2 in. pots, \$3.00 per 100. Achyranthea, 2 1/2 in. pots, \$3.00 per 100. Primula veris, strong clumps, \$8.00 per 100. Fuchsia variegata, 3 to 4 pipe to clump, \$8.00 per 100. Blue Hydrangeas, from 6 in. pots to 12 in. tube for Summer flowering. Prices on application. English Ivy, 6 to 6 ft. 4 1/2 in. pots \$16.00. 4 ft. 4 in. pots \$12.00. 2 and 3 ft. 2 1/2 in. pots, \$3.00 per 100.

JOHN RECK & SON, Bridgeport, Conn.

Mention The Florists' Exchange when writing.

BEDDING PLANTS

Table listing bedding plants like Salvia, Heliotrope, Single Petunias, and Tuberous Begonias with prices per 100 and 1000.

Larchmont Nurseries LARCHMONT, N. Y.

Mention the Florists' Exchange when writing.

SEASONABLE STOCK

Table listing seasonal stock like Ageratum, Alternanthera, Coleus, Cuphea, Draecena, German Ivy, Marguerites, Muesbrynthemum, Mignonette, Pansies, Petunias, Rose and Scented Geraniums with prices.

S. S. PECKHAM, New Bedford, Mass.

Mention The Florists' Exchange when writing.

HAVE YOU USED THE PERFECT Flower Pot Handle and Hanger?

It is just the thing for you to display your plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of one hundred Pounds.

No. 1 will fit from 2 to 5-inch pots. Per doz. No. 2 will fit from 5 to 8-inch pots. 40c. No. 3 will fit from 8 to 12-inch pots. 50c. By mail 10c. extra per doz. Sample pair loc. postpaid. See last week's issue for advertisement of Florists' Letters, etc.

W. C. KRICK 1164-86 Greene Ave. Brooklyn, N. Y.

Mention The Florists' Exchange when writing.

Cyclamen Plants Seed of only selected flowers and well built stock. No one better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000.
C. WINTERICH, DEFIANCE, OHIO
 Mention the Florists' Exchange when writing.

ARNOTT'S COMPLETE SOLUBLE PLANT FOOD

The only perfect substitute for, and away ahead of liquid manure. Clean to handle. Odorless. Sample package mailed free, 25c. Used by florists all over the World.

THE ARNOTT CHEMICAL CO.
 114 Victoria Street, TORONTO, Canada
 Mention The Florists' Exchange when writing.

COLEUS Stocky, from soil, Red and Yellow, 75c. per 100. Fancy all very bright, are finest grown, 55c. per 100. Big plants.

ALTERNANTHERA IMP. P. MAJOR

This new brightest red will take the lead. Retains its fine color all season. Bushy plants for stock, \$4.00 per 100. Order soon.

DANIEL K. HERR, Lancaster, Pa.
 Mention the Florists' Exchange when writing.

POINSETTIAS

Fine stocky plants, July and August delivery, 2 1/2 in., \$8.00 per 100, \$50.00 per 1000; 3 in., \$3.00 per 100, \$75.00 per 1000. Cash or satisfactory references.

BAUR FLORAL CO., Erie, Pa.
 Mention the Florists' Exchange when writing.

MAMMOTH VERBENAS

from 2 1/4-in. pots, in bud and bloom, \$1.00 per 100; 500 for \$3.50.
 Star Petunia, 3 in., \$2.00 per 100.
 Asparagus Sprenger, 2 1/2 in., \$3.00 per 100.
 Aster, Daybreak and Purity, 50 cts. per 100; Invincible, 40 cts. per 100.

J. S. BLOOM, Riegelsville, Pa.
 Mention the Florists' Exchange when writing.

ICYCLAMEN

Splendens Giganteum Hybrids
 Finest strain in the world, in five true colors, extra well-grown plants, from 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.

ICYCLAMEN Giganteum Fimbriatum (the new fringed variety), from 2 1/2 in. pots, \$5.00 per 100; from 3 in. pots, \$8.00 per 100.
ASPARAGUS PLUMOSUS NANUS, well-grown stock from 2 1/2 in. pots, \$3.00; from 3 in. pots, \$5.00 per 100.
 Satisfaction Guaranteed

PAUL MADER, East Stroudsburg, Pa.
 Mention the Florists' Exchange when writing.

SMILAX

2 in., \$1.25 per 100
 All Fine 2 in. Stock Rooted Cuttings 2 in. Plants Some in Bloom per 100 per 1000
 Ageratum, Pauline, Gurney..... \$0.50 \$1.50
 Petunia, double, 10 finest..... .75
 Fuchsia, 6 kinds, in bud and bloom .75 1.50
 Paris Daisy..... 1.50
 Alternanthera, red..... 1.50
 Coleus, 12 best bedders, 1000, \$4.00 .60 1.50
 Golden Feverfew..... 1.50
 Smilax Seedlings..... .30

Asters, Simple's, white, pink, lavender, purple, crimson, \$3.00 per 1000. Fine stock. Roaea, Ivory, Golden Gate, 2 in., \$2.00 per 100. Cash. Direct all orders plainly to
BYER BROS., Chambersburg, Pa.
 Mention the Florists' Exchange when writing.

SMILAX ASPARAGUS

Floe Plants, 2 1/2 in. pots.....Per 100 \$1.25
 Aspidistra, var., 7 in. pots.....each 1.00
 Pansy Seed, July.....Oz. 4 00
 CASH or C. O. D.

JOSEPH H. CUNNINGHAM, Delaware, Ohio
 Mention the Florists' Exchange when writing.

SMILAX SPRENGERI

Well grown carefully packed plants in any quantity. \$1.50 per 100; \$12.50 per 1000 \$2.00 per 100; \$15.00 per 1000

150,000 TO SELECT YOUR ORDER FROM Plumosus-Deflexus-Decumbens-Pansies-Geraniums

SEND FOR SUMMER PRICE LIST **ALBERT M. HERR, Lancaster, Pa.**
 Mention the Florists' Exchange when writing.

description of greenhouse bench, table, staging or shelf, in the growing of plants of many kinds and for various purposes; I have seen all sorts of benches and beds in active service at large and small places, and I tightly cling to the opinion that the well-constructed wooden bench, from five to six inches deep and at a convenient height from the ground, most fully meets the requirements of present day horticulture under glass. It possesses the first essential and prime requisite of a bench, that of being a staging on which plants can be raised to perfection; and, besides this, it is the simplest, most convenient and best appearing contrivance for the culture and display of plants, is comparatively inexpensive and easily and quickly built and repaired.

There are no such things as indestructible greenhouses or greenhouse benches, and if there were, nobody would want to carry on the growing of plants and flowers as an occupation in a gloomy, moss-overgrown Gibraltar, in an age when the rapid advance and development of commercial horticulture makes advisable and necessary frequent changes in structural arrangement.

A well-planned and substantially-built bench of 2-inch pine, cedar, hemlock, cypress or any good lumber of whatever kind, will last without repairs from three to four years, and one or two years more under an annual overhauling. In this time it should have earned several times over the money needed for a new bench. He who builds a bench lasting twice as long and costing three times as much is not a wise economist.

Until the much-imagined ideal bench has taken actual form and shape, we can manage nicely to get along with the one in constant use all over the country, and good enough at present.

Bench Repairing.
 The repairing of old benches is an irksome job. The appearance of a bench before it is cleared and cleaned of the old soil is most deceiving and misleading. It often looks like a sound structure and good for another year's hard service, but as soon as the shovel strikes the bottom boards all its infirmity is laid bare and the pressing work of refilling and planting will have to be delayed until the bench has been put in working order. The fact that this same bench has been thoroughly repaired and fixed up last year is no reason why it should be in good condition this year. This sort of reasoning does not hold good with greenhouse benches. Just because it needed repairing last year, it will need it worse this year, would seem better logic. After a bench has stood three or four years it rapidly yields to decay. Slight repairs, such as the replacing of an unsafe bottom plank by a sound one, or the strengthening of a cross-piece here or there by nailing a strip to it, will help it along a year or two. All this costs little and is quickly done. But when, finally, a bench is in a condition which offers no sound spot for a nail to be driven, and which makes repairing a most vexations and troublesome affair, requiring a good deal of time and material, it is by all odds the best plan to tear it down and build a new one. Instead of the old, unreliable, unsightly fixed-up bench, there will then be a sound, new one, good for another term of several years, and costing no more than the everlasting round of repairing. I have seen old benches that had been fixed up and repaired and nailed to every season for eight years, until nothing of the original structure remained in sight. Two or three entirely new benches would have cost less in labor, money and time. It should be remembered that better crops can be grown in a new bench than in an old, uneven and partly decayed one; that, while bench repairing is a most disagreeable task, the building of new benches is nice work, and that an old bench makes good firewood.

FRED. W. TIMME.

Vegetable, Greenhouse and Bedding Plants

VEGETABLE PLANTS

CABBAGE in any quantity. Winkstadt, Early All-Head, Sure-Head, Succession, Early and Late Flat Dutch, Hollander, etc. \$1.00 per 1000; \$8.50 per 10,000.

PARSLEY Moss Curled, 25 cts. per 100; \$1.25 per 1000.

CELERY In any quantity. White and Pink Plume, Giant Pascal, Golden Heart, Boston Market and other vars., \$1.00 per 1000; \$8.50 per 10,000.

TOMATOES Acme, Beauty, Stone, Perfection, etc., 25 cts. per 100; \$1.00 per 1000.

PEPPERS Bull Nose, Sweet Mountain, Ruby King, 25c. per 100; \$2.00 per 1000.

Miscellaneous Plants

2 1/4-in. stock in A1 condition. Per 100 1000

Ageratum, Stella Gurney..... 40c. per doz.; \$2.00 \$17.50

Alternanthera, yellow and red..... 2.00 15.00

Alyssum, Giant Double..... 40c. per doz.; 2.00 17.50

Centaurea gymnocarpa..... 1.50

Coleus, in good variety..... 2.00 15.00

Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List

Our Collection of **HARDY POMPON CHRYSANTHEMUMS** is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

R. VINCENT, JR. & SON, White Marsh, Md.
 Mention The Florists' Exchange when writing.

CLOSING OUT—Bargains

Salvia, fine..... \$1.00 per 100
 Acaranthus, 7 in..... 1.50 per 100
 Ageratum, Blue perfection..... 1.50 per 100
 Cobaea Scandens, 3 in..... 50c. per doz
 Dracaena Indivisa, 4 in..... \$1.00 per doz
 Robusta Cannas, 3 and 4 in..... 3.00 per 100

ORDER QUICK. CASH PLEASE.
WILLIAM KEIR, Pikesville, Md.
 Mention the Florists' Exchange when writing.

EXTRA FINE PLANTS WRITE FOR PRICES

DRACAENA INDIVISA 4-in., 5-in. and 6-in. pots.

HELIOTROPE 3 1/2-in. pots.

CUPHEA 2 1/2-in. pots.

SWEET ALYSSUM Double, 2 1/2-in. pots.

COLEUS Verschaffeltii, yellow, mixed, 2 1/2-in. pots.

AGERATUM Blue and white, 2 1/2-in. and 3 1/2 in. pots.

PAUL J. BURGEVIN, Port Chester, N. Y.
 Mention the Florists' Exchange when writing.

ASTERS Pot Crown

Giant Purity, Hohenzollern, Cream and dark blue, Simple's white, pink and purple, 2 in. pots \$1.00 \$9.00
 Aster, from seed bed, Simple, 3 colors; Hohenzollern, 3 colors; Trufruit, 3 colors; Victoria, 3 colors; by express..... 2.50
 Cobaea Scandens, 2 in..... 2.50
 Dracaena Indivisa, 3 and 4 in., 16 to 18 in..... \$4.00 and 6.00
 Asparagus Sprenger, 2 in..... 2.50
 Salvia, dwarf and tall, 2 in..... 2.00
 Cosmos, early dwarf, 2 in..... 3.00
 Zinnias, finest double, 2 in..... 1.00
 Nicotiana Sanderae, 2 in., 50c. per doz.
 CASH with order, please.

GEORGE J. HUGHES, Berlin, N. J
 Mention the Florists' Exchange when writing

GERANIUMS

In Bud and Bloom

S. A. Nutt, Beaute Pottevine, La Favorite, Bruant, R. Brett, several other varieties, \$6.00 per 100; \$50.00 per 1000.

Fuchsias, in bloom, 4 in. pots, \$3.00 per 100.
 Heliotrope, in bloom, \$6.00 per 100.
 Salvia, in variety, \$5.00 per 100.

Cannas, Queen Charlotte, green leaved, and Robusta, red leaved, \$6.00 per 100.
 English Ivy, 3 in. pots, \$3.00 per 100.
 Feverfew, 2 1/2 in. pots, \$2.50 per 100; 4 in. stock, \$4.00 per 100.

Double Lobelia, 2 1/2 in. pots, \$2.50 per 100.
 Double Petunias, 4 in. pots, \$8.00 per 100.
 Hydrangeas, 4 in. pots, \$5.00 per 100.
 Coleus, rooted cuttings, Golden Bedder and Verschaffeltii, 60c. per 100; \$5.00 per 1000; 2 1/2 in. pots, \$2.00 per 100.

At above prices the selection to remain with us. Cash must accompany the order.

J. E. FELTHOUSEN, Schenectady, N. Y.
 Mention The Florists' Exchange when writing.

MISCELLANEOUS PLANTS

(Continued) Per 100 1000

Hardy Chrysanthemums, small-flowering varieties..... 2.00 \$17.50

Hardy Chrysanthemums, large-flowering varieties..... 3.00 20.00

Heliotrope, good varieties..... 2.00 17.50

Ivy Geraniums, in var..... 3.00

Lantanas, 5 varieties..... 2.00 17.50

Petunias Dreeser's double mixed 2.50
 " Dreeser's super single mixed 2.00 16.00

Plumbago, Capensis, white..... 3.00
 Sage, Beit's Mammoth..... 2.00 15.00

Salvias, in variety..... 2.00 17.50

Smilax, strong..... 2.00 15.00
Swallsona Alba and Rosa..... 2.00 17.50
Vinca (Madagascar Periwinkle)..... 1.50

GERANIUMS

In good variety, \$2.00 per 100.
 Our selection of varieties, 500 for \$3.75; 1000 for \$16.00.

Send for descriptive list.

Famous Hudson River Grown VIOLETS

Marie Louise, 2 1/2 in. pots, strong, healthy stock, \$3.00 per 100; \$25.00 per 1000. From seed, \$10.00 per 1000.

SCHAEFERS, Inc., Newburgh-on-Hudson, N.Y.
 Mention The Florists' Exchange when writing.

COLEUS

Assorted, fine large, 2 1/2 in., \$1.50 per 100.

HELIOTROPE, 2 1/2 in., \$2.00 per 100; 3 in. and 4 in., large, \$5.00 per 100.

BOSTON FERNS, 3 in., \$4.00 per 100.
 Cash with order, please.

W. H. PARSIL, Summit, N. J.
 Mention The Florists' Exchange when writing.

Marie Louise Violets

1888 Schuneman's famous violets are well-known as the most 1905 fragrant of all violets.

Fine plants for benching at once, guaranteed the best stock in the market, none better.

Only \$2.00 per 100; \$15.00 per 1000.

Come and take a look at them. Only 17 miles from New York City.

Sample 10c., only for cash. Money returned if not suited.

GEO. T. SCHUNEMAN'S VIOLET RANGE, BALDWIN L. I., N. Y.
 Mention The Florists' Exchange when writing.

Surplus Bedding Stock

IN BUD AND BLOOM

Ageratum Stella Gurney, 3 in., \$3.50 per 100.
 Lantana, 3 in., \$5.00 per 100.
 Heliotrope, 3 in., \$1.00; 4 in., \$3.00 per 100.
 Verbena, 2 1/2 in., \$2.50 per 100.
 Phlox, 2 1/2 in., \$2.50 per 100.
 Lobelia, 2 1/2 in., \$2.00 per 100.
 Coleus, best varieties, 2 1/2 in., \$2.00; 3 in., \$4.00 per 100.

Vinca Variegata, 2 1/2 in., \$2.50 per 100.
 German Ivy, 2 1/2 in., \$2.50 per 100.

Alternanthera, green, red, pink, 2 and 2 1/2 in., \$2.50 per 100.
 Alternanthera, Brilliantissima, \$3.00 per 100.
 Dusty Miller, 2 1/2 in., \$2.00 per 100.
 Mme. SaHerol, 2 1/2 in., \$3.00; 3 in., \$5.00 per 100.
 400 Meteor Rose Plants, 2 1/2 in. rose pots, \$3.00 per 100.

CHRYSANTHEMUMS

Lord Hopstoun, Ben Wells, Et. Bonnefond, Cecil Cutts, Vivand-Nirol, Wm. Duchan, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Percy Pitmidge, Thirkell, White Bonaffon, Mrs. Chamberlain, C. H. Diederich, Dr. Enguehard, Obeltoni, Ida Barwood, S. T. Wright, Chevrant, Rooted cuttings, \$2.50; 2 1/2 in., \$3.50.

Major Bonaffon, Mrs. Jerome Jones, Yellow Jones, Mrs. Robinson, F. S. Valls, Mrs. Coombs, Mrs. Longly, M. Pickett, Marie Liger, M. Douille, Paul Sahut, Dalekov, Ivory, Boccasse, Col. Powell, Mayflower, O. J. Falter, White Maud Dean, Mounier, Rooted cuttings, \$1.50; 2 1/2 in., \$2.50.
 Cash, or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.
 Mention The Florists' Exchange when writing.

CLASSIFIED ADVERTISEMENTS

Cash with Order

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), set solid, without display. Display advertisements in these columns 15 cents per line; count 14 lines to the inch.

No advertisement taken for less than 50 cents (35 words), except Situations Wanted.

(If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.)

STOCK FOR SALE

ADIANTUM CUNEATUM—Strong clumps, bench grown, ready for 0 and 8-in. pots, \$10.00 and \$15.00 per 100. Cash with order please. G. D. Du Moulin, Rose Lawn Greenhouses, New York Mills, N. Y.

ASTERS—Simple's Queen of the Market and Comet, 5 colors, mixed, \$2.50 per 1000. Simple's separate colors, white, pink, rose and lavender, \$3.00 per 1000. All field-grown, ready to plant. Cash with order. A. & G. Rosbach, Pemberton, N. J.

CHRYSANTHEMUMS—Jerome Jones, \$1.50 per 100, \$12.00 per 1000. Just right to bench. Cash with order, please. Louis Siebrecht, Floral Park, N. J.

DRACAENA INDIVISA, 5-inch pots, 20c. each; 4-inch pots, 10c. each. Sweet Alyssum, \$2.00 per 100. Nicotiana Sandera, \$1.00 per doz. Joseph Jones & Sons, Wappingers Falls, N. Y.

800 AMERICAN BEAUTY, 10c.; 2000 Bride, 4c.; 2000 Bridesmaid, 4c.; for quick sales, from 4-inch pots. A No. 1 stock. Cash with order. A. P. Smith, Madison, N. J.

BRIDE and Bridesmaid, from 4-inch pots, \$4.50 per 100. Fine General MacArthur, from 4-inch pots, \$10.00 per 100. Good, clean, healthy stock. Robert M. Schultz, Madison, N. J.

STOCK WANTED

WANTED—ALL KINDS OF SUMMER FLOWERS, SUCH AS PAEONIES, ASTERS, DAHLIAS, GLADIOLUS, SWEET PEAS, STOCKS, ETC. WE WISH TO RECEIVE SHIPMENTS ON CONSIGNMENT, AND CAN HANDLE GOOD STOCK TO ADVANTAGE. SETTLEMENTS WEEKLY. A. L. YOUNG & CO., 54 WEST 28TH ST., NEW YORK.

SITUATIONS WANTED

NURSERYMAN, middle aged, many years' experience in first-class nurseries, wishes position; best of references. Address A. H., care Florists' Exchange.

SITUATION wanted by orchid grower, single; many years' experience on good private and commercial places; best references. Apply Julius Rochers, Rutherford, N. J.

YOUNG MAN, Swiss, wishes position as gardener, to learn the business. Speaks French, German and English. Edgar O. Schlessener, care Martin, 925 Park Ave., New York.

FIRST-CLASS gardener, florist and nurseryman wishes position; 36, single; 20 years' experience in all branches; private and commercial; best references. Address A. G., care Florists' Exchange.

FLORIST and gardener, first-class, well posted on private place, or propagating orchids, foliage and tropical plants; 15 years' experience; good references. Address M. Tumovec, 362 E. 76th St., New York.

YOUNG man, willing to work, 22 years old, good habits, Dutch, wishes position as assistant in a florist establishment. Will work for small wages the first year. Address F. J. Laengbach, Florist, Norwich, Conn.

STEADY POSITION wanted by single man, age 29, grower of roses, carnations, chrysanthemums and pot plants; strictly sober and reliable; best of references. Please state wage per week. Aegerter, 551 East 160th St., New York.

SITUATION wanted; steady position as working foreman on a commercial or private place. Strictly sober, competent and reliable; 20 years' experience; age 36; married; thorough in all branches; grower and propagator. Address A. J., care Florists' Exchange.

SITUATION wanted in florist store; 16 years' experience as salesman, designer, decorator, etc. Position wanted where honesty and attention to business are appreciated. Strictly temperate. First-class reference. Address Permanent, care Florists' Exchange.

WANTED—Position as manager of wholesale or retail store, Western city preferred, by a young man of thorough experience in all branches of the trade. Can furnish the best of references as to character and ability. Please state particulars in first letter. A. C., care Florists' Exchange.

GARDENER and florist, 38, single, German, very neat, and sober; 23 years' experience on first-class private and commercial places; understands the business thoroughly, under glass and outside. Only steady place wanted, and fair wages. First-class reference from former and last employers. Address H. B., care Bonifay, 105 West 124th St., New York.

HELP WANTED

WANTED—Man to work in rose houses; one who has had one or two years' experience preferred. Robert Miller, East Brookfield, Mass.

WANTED—A temperate, willing man for general greenhouse work; six who has had experience in growing palms and ferns. Address A. B., care Florists' Exchange.

A YOUNG unmarried man to work in a greenhouse; some experience necessary. Please address Gaskill's Greenhouse, 212 North Tod Ave., stating experience and wages.

WANTED—Two reliable young men for rose houses, to work under the direction of foreman; those that have had some previous experience preferred. Address A. A., care Florists' Exchange.

SALESMAN wanted to solicit orders for fine nursery stock; gardeners and others who have some knowledge of the business; steady employment and good pay. Address P. A. Keene, 1 Madison Ave., New York.

WANTED—By an Eastern catalogue firm, young man for greenhouse work, thoroughly experienced in the propagation of foliage and flowering plants; also one for herbaceous perennial department. State experience fully and wages wanted to "Flora," care Florists' Exchange.

WANTED—A competent bookkeeper and office man familiar with the tree and plant business; good opportunity and permanent place for a man not afraid of work, and who wishes to advance. Reference required. Also a nurseryman of good habits; young, energetic man preferred. Fancher Creek Nurseries, Inc., Fresno, Cal.

WANTED Young man for Seed and Bulb department. Apply giving age and experience to HENRY A. DREEL, 714 Chestnut St., Philadelphia.

WANTED by an Eastern house, a traveling salesman who is acquainted with the wholesale and retail trade. State references and expectations to A. L., care Florists' Exchange.

BUSINESS OPPORTUNITIES

TO RENT—In Greater New York, 25,000 feet of glass, 3 acres of ground, dwelling house and barn. Address A. E., care Florists' Exchange.

FOR SALE—5500 feet of glass, 50 miles from Cincinnati; good local and shipping trade in growing town. Address A. D., care Florists' Exchange.

TO LET—Store and five-room dwelling, three greenhouses, 2500 feet of glass, located near Fairmount Cemetery entrance, at Newark, N. J. A small gold mine. Inquire Charles Hornecker, P. O. Box 31, Springfield, N. J.

FOR SALE—Entire florist business; store, with splendid established trade; three small greenhouses rear of store; stable and wagon shed. Will be sold cheap. Lung trouble cause of owner selling. Address A. B. Mechlin, 410 Market St., Harrisburg, Pa.

\$700 CASH buys established florist business near manufacturing center; six room dwelling house, barn and workshop; three greenhouses and four acres of land; with exceptionally good market for product. Address F. J. Ekmark, Real Estate and Insurance, Meriden, Conn.

MUST BE SOLD AT ONCE, to settle estate, nine greenhouses, each 100 feet, in fair condition; hot-water heating, with Hitches boiler, comparatively new; six acres of cultivated ground; house of six rooms and barn, in good condition; artesian well; steam pump. Situated 2 miles from Ridgewood, N. J., and same distance from Paterson, N. J. Present mortgage can stand. Immediate possession. Address Mrs. Bingham, Ridgewood, N. J.

FOR SALE—Our entire plant, 20 greenhouses, about 25,000 ft. glass, nearly all 16x24 in. in size, and double thick. Iron and cedar posts, cypress bars; business established over 30 years, but entirely rebuilt in last 10 years; heating, hot water under pressure. A large percentage of income is from cut flowers and floral work; entire products sold retail. Receipts all right, books open. Terms easy. We are only 20 miles from Massachusetts State line, with some of N. H. fine summer resorts near us. Address Ellis Bros., Keene, N. H.

THE AMERICAN CARNATION

Price, \$3.50

A. T. DELAMARE PTG. & PUB. CO. LTD.
8 DUANE STREET, NEW YORK

European Seed Notes.

The frosts having destroyed nearly all our pole beans, vegetable marrows, and cucumbers, and, as far south as Paris cut the early potatoes down to the ground, has now departed and left us to enjoy a hot dry spell which will, if we get some rain very soon, put everything in tune again. Any injury inflicted on the main shoots of turnips will, in this case be compensated by the development of a large number of side branches. The effect on cabbages is not so beneficial, but we were already reconciled to a shortage of this article.

Radish and spinach are practically a standstill until rain appears. Sweet peas are doing exceptionally well.

EUROPEAN SEEDS.

CAMBRIDGE CITY, IND.—Improvements are being made by Thomas Peet on his greenhouse on North Front street. He is adding four new buildings, besides a large office. His father has bought a share in the business, and the firm will be known as Peet Son.

MISCELLANEOUS WANTS

WANTED—To rent for year, about 5000 ft. glass, good order, near city, with house and some ground. Might buy if suited. Address A. K., care Florists' Exchange.

WANTED TO BUY greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

MISCELLANEOUS

FOR SALE—Hot-water boiler; will heat 6000 feet of glass. Price, \$50.00. Address A. F., care Florists' Exchange.

FOR SALE—One second-hand cast-iron boiler. "Dean" make, can be used for steam or hot water. Will heat 12,000 sq. ft. of glass. Has been in use four seasons; is in good condition. Will sell for one-third of original cost. H. B. Weaver, Bird-in-Hand, Pa.

SECOND-HAND BOILERS—Several Lord & Burnham New Style Boilers, almost new; also Hitches and Weathered, complete in every way and tested before leaving shop. 100 boxes 12x18 double-thick American glass, clean, and free from defects, securely packed in new glass boxes. William H. Luton, West Side Ave. Depot, Jersey City, N. J.

For Sale

Entire florist's business, store and three small greenhouses in the city of Philadelphia, will be sold cheap. Apply to

HENRY F. MICHELL CO.

1018 Market St., Philadelphia, Pa.

Mention The Florists' Exchange when writing.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs; other make; new; cheap.

BOILERS New and second-hand. 1 second-hand steam; first-class condition; will heat 1000 sq. ft. glass, at \$36.00. 1 second-hand No. 17 Hitches boiler, first-class, \$75.00.

PIPE Good serviceable second-hand, with Threads; 2-in., 7 cts.; 1½-in., 6¼ cts.; 1¼-in., 3¼ cts.; 1-in., 3 cts. New 2-in. Standard, full lengths, with couplings, 8¼ cts. ft. Old and new fittings and valves.

STOCKS and DIES New Economy, best made. 1-in. pipe, \$3.00. No. 2 Threads, ¼-in., ¾-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New Saunders Pattern. No. 1 cuts ¼-in.-1-in. pipe, \$1.00. No. 2 cuts 1-in.-2-in. pipe, \$1.30.

STILLSON WRENCHES New. 18-in., grips ¼ in.-2-in. pipe, \$1.65. 24-in., grips ¼-in.-2½ in. pipe, \$2.40; 36-in., grips ½-in.-3½ in. pipe, \$4.75.

PIPE VISES New. No. 1 Hinged, grips ¼-in.-2 in. pipe, \$2.25.

GARDEN HOSE New. ¾-in., guaranteed 100-lb. pressure, 7¼ cts. per ft.; ¾-in., not guaranteed, 4¼ cts. per ft.

HOT-BED SASH New. Cypress, 3-ft. x 6 ft., from 70 cts. up; glazed, complete, from \$1.80 up. Second-hand, as good as new, complete, at \$1.25 and \$1.00 each.

RADIATORS Good as new. 15 cts. per pipe.

GLASS New American, 60 sq. ft. to the box. 10x12, Single, at \$1.40; 10x12, 12x12, B. Double, at \$2.40; 12x14, 12x16-12x20-14x14-14x16-14x20-16x16-16x18, B. Double, at \$2.60; 16x20-16x24, B. Double, at \$2.90.

Get our prices on New Gulf Cypress Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Paint, Points, etc.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.
Mention the Florists' Exchange when writing.

Portland, Ore.

In conjunction with the Lewis and Clark Exposition officials, the Portland Rose Association held its annual rose show in Festival Hall on June 3. The event, under the management of W. S. Simpson, far surpassed any previous effort of the association, both in its excellence and the interest taken by the members and their friends. The hall decorations and staging of exhibits designed and carried out by George Otten, were elaborate and handsome, a pergola, extending across the stage, being particularly unique. The large columns of the hall were literally a mass of roses; 20,000 were used for this setting alone, while 5,000 were staged for exhibition.

The leading local firms lent their aid by placing excellent displays, which were highly appreciated. The three medals offered were awarded to Clarke Bros., Martin & Forbes and George Otten, the award being based on general view of displays.

Designs by Martin & Forbes and George Otten showed striking originality and artistic workmanship. The judges were Herman Lowitz, Superintendent of Parks, E. C. Bronaugh and George C. Nicholson.

Pilkington has received a consignment of bays, which he is rapidly disposing of, and Pfunder a nice lot of decorative palms.

Otten will make radical changes in his establishment, owing to street improvements.

Out on the Exposition grounds much of needed improvement is noticed in landscape and floral work, although much more could be wished for. J. H.

Louisville, Ky.

News Notes.

The past week was commenced week for the Louisville public schools, and all the florists are satisfied with the business done. This week we have the Confederate Veterans with us, and they certainly have come in goodly number and brought many friends and relatives with them. While the city is rather elaborately decorated in honor of the veterans, not much of this work fell into the hands of the florists, it being mostly done in flags and bunting, arranged by the people supplying the same. We can look forward to a little extra business toward the last of the week, when several large halls and receptions will be given in honor of the sponsors and the maids of honor.

Adolph Koenig, lately with H. Fuchs, has accepted a position with Joy & Son, of Nashville, Tenn., and will shortly leave for his new home.

Mrs. E. Lang, who has long been associated with the local trade, lately with F. Walker & Co., is no longer connected with their force.

Jacob Schulz will this week begin the erection of his new store, which, when completed, will be the finest in this section of the country.

H. Kleinstarink and his family will shortly leave for a visit to Holland and Switzerland.

Once a Royal Gardener.

Under this caption the Muncie (Ind.) Star of June 4 gives a brief account of the career of Pa 1 Goebel, of Wabash, Ind., also his portrait, from which we cut the following:

"Paul Goebel, a professional florist and landscape gardener, who owns greenhouses at Wabash, Ind., and Grand Rapids, Mich., has been engaged in the business for the past fifty-eight years, learning the profession which he has followed for so long, in Germany, where he lived until 1883, when he emigrated with his family to the United States.

"Mr. Goebel was born in 1833. He came of a family of school teachers, but at the early age of 14 started in to learn the culture of flowers and landscaping. For three years he was engaged as a gardener and landscaper in the immense gardens of the emperor, serving at Berlin and Potsdam. He then embarked in business for himself and later came to America.

"Mr. Goebel has four sons, all florists. One of them, Frank, resides at Wabash, while three are at Grand Rapids. The father has an enviable reputation as a soldier also, and served in the war with Austria in 1861, as well as in the bloody Franco-Prussian War in 1871."

J. K. ALLEN

Wholesale Commission Dealer in Cut Flowers
Telephone, 106 W. 28 St., NEW YORK Open at 187 Mad. Sq. 8 A. M.
Consignments Solicited. Prompt Payments
Mention the Florists' Exchange when writing.

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Wholesale Florists
26 Boerum Place, BROOKLYN, N. Y.
Telephone 4638 Main.
Consignments solicited. Out-of-town orders carefully attended to. Give us a trial.
Mention the Florists' Exchange when writing.

CUT FLOWER EXCHANGE

Sixth Ave. and 26th St.
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Open every Morning at Six o'clock for the Sale of Cut Flowers
Wall Space for advertising purposes to Rent
J. DONALDSON, Secretary
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48 West 30th Street, New York City
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Always ready to receive Fine Stock

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Violets, Roses, Carnations, Orchids
ESTABLISHED 1888.

THE ONLY HOUSE HANDLING THE NEW RED CARNATION

"VICTORY"

To be disseminated 1906. Also a complete line of choicest flowers.

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52 West 29th Street, New York
Telephone, 1884-1885 Madison Square
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Wholesale Florists
And Dealers in FLORISTS' SUPPLIES
108 Livingston Street
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Telephone Call, 50 Madison Sq.
Mention the Florists' Exchange when writing.

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Madison Square
50 W. 30th St., New York
Beauties, Meteors, Brides and Bridesmaids are the leaders.
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
ORCHIDS A SPECIALTY.
HEADQUARTERS FOR NOVELTIES

SLINN & THOMPSON

Wholesale Florists
55 and 57 West 26th Street, NEW YORK
SPECIALTIES—Violets, Carnations and Roses
Shipping orders receive prompt attention. Consignments Solicited.
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TELEPHONE: 8888 MADISON SQUARE
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JULIUS LANG

Wholesale Florist
53 WEST 30th STREET
NEW YORK
Consignments Solicited. Telephone, 280 Madison Sq.
Mention the Florists' Exchange when writing

All Choice Cut Flowers in Season ALFRED H. LANGJAHR

55 West 28th St., New York
Telephone 8924 Madison Square.
ESTABLISHED BUY FROM ME
1891 SHIP TO TRY
Mention the Florists' Exchange when writing

A. L. YOUNG & CO.

WHOLESALE FLORISTS
54 West 28th Street, New York
Receivers and Shippers of
CUT FLOWERS.
Consignments solicited. Prompt settlements
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WHOLESALE COMMISSION FLORIST
Receiver and Shipper of all varieties of Cut Flowers
Telephones: { 2200 Madison Square 57 West 28th Street, NEW YORK
 { 2201 Madison Square

Wholesale Prices of Cut Flowers, New York, June 16, 1905.

Prices quoted are by the hundred unless otherwise noted.

Roses	A. BEAUTY, fancy—special	10.00 to 20.00	Carnations	Infr grades, all colors.....	.20 to .30	
	" extra	8.00 to 10.00		STANDARD	White.....	.50 to .75
	" No. 1	6.00 to 8.00		VARIETIES	Pink.....	.50 to .75
	" No. 2	3.00 to 4.00		" Red.....	Red.....	.50 to .75
	" No. 3	1.00 to 2.00		" Yel. & Var.....	Yel. & Var.....	.50 to .75
	Bride, "Maid, fancy—spe'l	3.00 to 5.00		" White.....	White.....	.75 to 1.00
	" extra.....	2.00 to 3.00		" Pink.....	Pink.....	.75 to 1.00
	" No. 150 to 1.00		" Red.....	Red.....	.75 to 1.00
	" No. 2 to .50		" Yel. & Var.....	Yel. & Var.....	.75 to 1.00
	" No. 3	1.00 to 5.00		" NOVELTIES.....	" NOVELTIES.....	.75 to 1.00
Golden Gate.....	3.00 to 15.00	LILIES	LILIES	3.00 to 5.00		
Liberty .....	..... to	LILY OF THE VALLEY	LILY OF THE VALLEY	.50 to 2.00	
Meteor	1.00 to 4.00	MIQNONETTE, ordinary.....	MIQNONETTE, ordinary.....	.25 to .50		
Mme. Abel Chateaux.....	.50 to .75	" fancy	" fancy	to		
ADIANTUM .....	..... to 1.50	PANSIES, per dozen bunches.....	PANSIES, per dozen bunches.....	.....	
ASPARAGUS	25.00 to 50.00	PEONIES	PEONIES	1.00 to 4.00		
" Sprengerl, bunches	6.00 to 10.00	SMILAX	SMILAX	8.00 to 10.00		
CALLAS	3.00 to 5.00	STOCKS, per bunch	STOCKS, per bunch .....	.25 to .35	
CATTLEYSAS	25.00 to 75.00	SWEET PEAS.....	SWEET PEAS.....	.50 to 1.00		
DAISIES .....	.35 to .50	.....	.....	.....
GLADIOLUS	4.00 to 6.00	.....	.....	.....
IRIS.....	1.00 to 2.00	.....	.....	.....

WALTER F. SHERIDAN

Wholesale Florist
Telephone, 902
Madison Square
39 WEST 28TH ST., NEW YORK
ALL VARIETIES OF CUT FLOWERS IN SEASON

TOP GRADE FOR SHIPPING

American Beauty, Bridesmaid, Bride, Liberty,
Meteor, Lily of the Valley, Carnations
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Madison Square
JOHN I. RAYNOR, 49 West 28th St., NEW YORK

Edw. C. Horan

55 West 28th St., NEW YORK
TELEPHONE, 1462-1463 MADISON SQUARE
CUT FLOWERS AT WHOLESALE

Newport, R. I.

News Notes.
This is certainly a season of extremes; up to a week ago it had hardly rained since last Fall, but since it began to be wet, it has not stopped. These conditions, together with very cold weather, some days the glass not getting above 50 degrees, have about discouraged us all; but we may get some growing weather after this rainy period is once passed. Our florists are beginning to feel the coming of the Summer season orders, and as Newport is filling fast with visitors, they will soon be very busy with decorations for social functions of all kinds. The seedsmen after having a splendid run of trade are slacking into the usual Summer dullness.

Leikens has opened for his second Summer season, his Bellevue avenue store, and is, as last year, going to make a specialty of dinner and ball decorations. Mr. Leikens was for years manager here for Messrs. Siebrecht & Son; a year ago he established himself in the florists' trade both in New York and Newport.

The wedding of Miss Marie P. Greene to C. Bateman Swasey will take place at the home of the bride's uncle, Geo. A. Weaver, Monday, June 19. Miss Greene for many years has had charge of the office work of the George A. Weaver Company.

The commencement exercises of the Rhode Island College of Agriculture and Mechanic Arts were held at Kingston June 11, 12 and 13. The college has just closed one of the most successful years in its history, and President Butterfield should feel well satisfied with what has been accomplished.

Wadley & Smythe have their floral establishment in the Newport Casino all ready for the coming Summer season's business. Palms, bay trees, crotons and foliage plants decorate the store, and beautiful windows in a very pleasing manner.

Ziegler decorated very tastefully for the Stanhope-Bartlett wedding; palms, bay trees, Easter lilies, hydrangeas and flowering shrubs were generously used both at the church and home. The bride's bouquet was a shower of lily of the valley, and the maid of honor carried Daybreak carnations.

William Siebrecht was over from New York last week seeing that everything was in readiness for opening the Summer season at their Bellevue avenue store. Messrs. Siebrecht & Son have a very large and attractive establishment and this season the manager, Ralph Armstrong, has arranged the interior floral decorations very attractively indeed.

William B. Scott & Company have had an especially good run on geraniums, of which they had a very large number. The varieties which sold the best were Summit of Perfection, S. A. Nutt, A. Ricard, Beauty of Poitevine, La Favorite, Madame Belmont, and sold in the order named. The retail price was \$1 a dozen; wholesale, \$6 per hundred.

A. J. Rickards called upon the craft here this week, representing the Stump & Walter Co., of New York. Mr. Rickards reports a good season in all lines.

NEW BEDFORD, MASS.—Cut flower trade for the past week has been very dull. The bedding out season is still on, and those who engage in this branch of the business are reaping a rich harvest. Geraniums are going fast, and a scarcity of these plants is reported in this section. Good plants are selling for \$1.25 per dozen. S. A. Nutt is easily the leader here, and more plants of this variety are grown in this section than of any other geranium. As a sign of how things are, one of our local florists advertised carnations at 15 cents a dozen.

Tuesday, June 13, is meeting night for the Horticultural Society, when there will be a talk on peonies. C. W. Ward, of Cottage Gardens, has promised a shipment of these grand flowers.

All the gardeners of the city are laid off as a result of the city's debt.

HORTICO.
CAMDEN, N. J.—Frank Steel, a florist, of Sixth and Mount Vernon streets, has been declared insane, and will be removed to an asylum.

FOR JUNE COMMENCEMENTS AND WEDDINGS

we have SMILAX, ASPARAGUS, and the finest American Beauty Roses. Also everything else in seasonable flowers.

Mention the Florists' Exchange when writing.

Philadelphia Wholesale Flower Market

1235-37 Filbert St., PHILADELPHIA, PA.

SAMUEL S. PENNOCK

THE Wholesale Florist of Philadelphia

Mention The Florists' Exchange when writing.

PEONIES for June Weddings

PEONIES CARNATIONS, ROSES, Etc.

THE PHILADELPHIA CUT FLOWER CO.

1516 and 1518 Sansom St., Philadelphia, Pa.

Mention the Florists' Exchange when writing.

FANCY CARNATIONS AND ROSES

PITTSBURG CUT FLOWER CO., Ltd.

504 Liberty Ave., PITTSBURG, PA.

NEW CROP FANCY and DAGGER FERNS

READY MAY 1st. BOOK ORDERS NOW. FANCY, \$1.00 per 1000; DAGGER, 90c. per 1000.

Special Quantity Prices on Application

E. A. BEAVEN, Evergreen, Alabama

SCRANTON FLORIST SUPPLY COMPANY

201 North Seventh Ave. SCRANTON, PA.

Importers and Manufacturers of All FLORISTS' SUPPLIES, RIBBONS AND CHIFFONS Send for Catalogue

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CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses and Spring Flowers

11 South 16th Street, PHILADELPHIA

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JAPANESE MOSS

Packed in paper cartons. "Moss and nothing out Moss"; no sticks or dirt. Less than half the price of German Moss.

L. WERTHEIMBER & CO., Foreign & Domestic Specialties, 39 Barclay St., New York.

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MICHIGAN CUT FLOWER EXCHANGE

WM. DILGER, Manager

FANCY FERNS, \$1.50 per 1000. DAGGER FERNS, \$1.50 per 1000.

38-40 Miami Ave., Detroit, Mich.

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Parker-Bruen Mfg. Co. Inc. FLORISTS SPECIALTIES

St. James Bldg. 1133 Broadway, New York

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Sheep Manure

Pulverized. Free from all Adulteration. In Bag, \$18.00 per Ton.

Special price on car load lots in bulk.

ROBERT SIMPSON Clifton, N. J.

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N. LEGAKES & CO.

53 W. 28th St., NEW YORK



Tel. No. 1214 Madison Square

Stands at Cut Flower Exchange Coogan Bldg., W. 28th Street & 24th Street Cut Flower Market.

SPECIALTIES: Galax Leaves, Ferns and Lencothoe Sprays, Holly, Princess Pine and all kinds of Evergreens.

Green and Bronze Galax Leaves

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Blake's Lever Clip

FOR FASTENING STAKES TO THE CROSS WIRE

PATENTED SEPT. 23 1902

They never slip and are a great saving of both time and money.

EVERY GROWER SHOULD TRY THEM AND BE CONVINCED

Price, \$1.75 per 1000. Send for free samples.

B. S. BLAKE & SON, ROCHESTER, N.Y. 150 Linden Street

BRANCH OFFICE, 26 BOERUM PLACE, BROOKLYN, N.Y.

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Oyster Shell Lime

The purest and best for fertilizing qualities. Rich in soda, Potash and Phosphoric Acid. Put up in 100-pound sacks, ready for use at once; no waste; fine like flour.

HASLAM LIME CO.

Manufacturers of ONLY OYSTER SHELL LIME 118 to 130 Cliff St. Scranton, Pa.

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HARDY CUT FERNS



Fancy or Dagger, now 45c. per 1000. Huckleberry Branches, by the case, \$1.50. Sphagnum Moss, per bbl., 50c. Green Moss, per bbl., 45c. Laurel Kopting, hand made and well put together, \$4.00 per 100 yds. Evergreen Kopting, 4c. per yd., 5c. per lb. Must say you all met me in Buffalo, Asheville, Milwaukee, St. Louis, and expect to meet you in Washington. All orders by mail, dispatch or long distance telephone, promptly attended to.

THOMAS COLLINS, Hinsdale, Mass.

Mention The Florists' Exchange when writing.

REED & KELLER 122 W. 25th STREET NEW YORK

Importers and Manufacturers of **FLORISTS' SUPPLIES** Galax Leaves and Decorative Greenery New York Agents for Caldwell's, Monroe, Ala., Parlor Brand Smilax.

Mention The Florists' Exchange when writing.

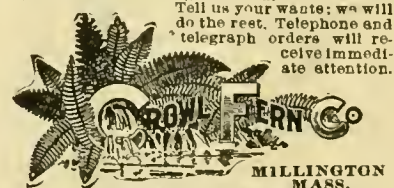
STANDARD FLOWER POTTS THE WHILLDIN POTTERY COMPANY

PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.

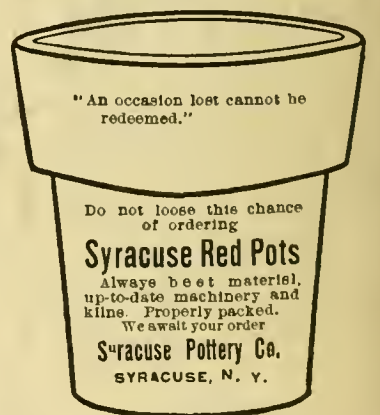
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NEW CROP FERNS now ready, 76c. per 1000. Galax, Brilliant Bronze or Green, 76c. per 1000. Use our LAUREL FESTOONING for your June decorations. It gives the best satisfaction of any decorat ve green at this time of the year. Sample lot on application. We make it daily, gathered fresh from the woods. Hand-made, full sizes, 4c. 6c. and 8c. per yard. Once used, always used. BRANCH LAUREL, 35c. per large bundle. PRINCESS PINE, by the pound, or made into festooning if desired.

Tell us your wants; we will do the rest. Telephone and telegraph orders will receive immediate attention.



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HARDY CUT DAGGER AND FANCY FERNS



\$1.50 and \$2.00 per 1000. **WILD SMILAX**, \$4.00 and \$7.00 per case. **GALAX**, New crop. Green and bronze. \$1.00 per 1000.

Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelles, Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

LAUREL FESTOONING, 5c. and 6c. per yard. **HENRY M. ROBINSON & CO.**, 8 & 11 Province St., Boston, Mass. L. D. Telephone, Main 2818.

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Los Angeles, Cal.

Permanent Organization Effected.

Permanent organization of the Southern California Horticultural Association has been effected. The new society is formed as the result of a caucus meeting, held a week ago, at the call of President J. C. Vaughan, of the S. A. F. O. H. At that time a committee of ten men was appointed to take charge of the organizing. As a result, fifty-two charter members have placed their names on the list.

The object of the association will be to promote horticulture in all its branches; to advance the social and business interests of its members, improve homes and parks in order to educate public taste. Following is a list of the officers elected:

President, Captain F. Edward Gray, Los Angeles; first vice-president, John Rodgers, Gardena; vice-president for Los Angeles County, Edward H. Rust, South Pasadena; for San Diego County, Miss K. O. Sessions, San Diego; for San Bernardino County, Sidney Hockridge, Redlands; for Orange County, Fred Rafferty, Santa Ana; for Riverside County, Charles Howard, Riverside; for Santa Barbara County, Robert Armstrong, Santa Barbara; for Ventura County, Samuel Cole, Ventura; general secretary, Ernest Brauntun, Los Angeles; recording secretary, W. J. Rodgers, Los Angeles; treasurer, Jacob Dieterich, Los Angeles; botanist, Ernest Brauntun, Los Angeles; horticultural chemist and entomologist, Dr. A. Davidson, Los Angeles; executive committee, F. H. Howard, Los Angeles, chairman; Walter Raymond, Pasadena; D. R. Woods, Wilmington; Miss Etheline Lord, Los Angeles; Miss Waite, Los Angeles.

SAN FRANCISCO, CAL.—A. B. Kretschmar has left this city and gone East to West Nyack, N. Y., where, with his brother, he will take charge of his father's greenhouse plant. Mr. Kretschmar leaves with the best wishes of his employer here—Frank Pelicano Company—for his future success.

Wm. J. Baker

Wholesale Florist
1432 S. Penn Square, PHILADELPHIA, PA.
Seasonable Cut Flowers
Fine Quality

Mention the Florists' Exchange when writing.

DUMONT & CO.

Wholesale Florists
Carnations a Specialty
No. 1305 Filbert St., Philadelphia

Bell and Keystone 'Phones.
Mention the Florists' Exchange when writing.

Wm. J. Moore

Wholesale Florist
1235-37 FILBERT STREET
PHILADELPHIA, PA.

Bell and Keystone 'Phones.
We can use more CHOICE SWEET PEAS and EARLY ASTERS.
Mention the Florists' Exchange when writing.

EDWARD REID

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1526 Ranstead Street, PHILADELPHIA
Bet. Market and Chestnut Streets
Choicest Stock Always on Hand
Telephone 1-42-26-A.

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A DAILY CUT FROM 40 GROWERS

We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty. Write, telephone or telegraph. Long Distance Phone, 1129 Main.

Headquarters for HARDY FERNS and WILD SMILAX
Most Complete Line of FLORISTS' SUPPLIES in the West
CATALOGUE FREE.

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Successor to Illinois Cut Flower Co.
Wholesale Cut Flowers
Consignments Solicited.
51 and 53 Wabash Avenue, CHICAGO

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GEO. REINBERG

Wholesale Grower of Cut Flowers
CHOICE AMERICAN BEAUTY ROSES
We will take care of your orders at reasonable prices. Prompt attention.
51 Wabash Avenue, CHICAGO, ILL.
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WIETOR BROS.

Wholesale Growers of CUT FLOWERS
All telegraph and telephone orders given prompt attention.
51 Wabash Ave., CHICAGO

VAUGHAN & SPERRY

58-60 Wabash Ave., CHICAGO
WHOLESALE FLORISTS
All Cut Flowers at Retail Market Prices.
Florists' Supplies
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CHARLES W. McKELLAR

Wholesale Commission Florist and Dealer in all Florists' Supplies
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Correspondence Invited from Growers of Specialties in Cut Flowers
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Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburg, and St. Louis. Rows include various flower types like Beauty, Bride, Golden Gate, etc.

Wired Toothpicks

10,000, \$1.50 | 50,000, \$6.25
MANUFACTURED BY
W. J. COWEE, Berlin, N.Y.
Samples free. For sale by dealers.
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Worcester Conservatories

Wholesale Growers of CUT FLOWERS
Prompt attention given all orders.
WORCESTER, MASS.
Mention the Florists' Exchange when writing.

WHOLESALE CUT FLOWERS and FLORISTS' SUPPLIES

C. C. Pollworth Co.

MILWAUKEE, WIS.
Mention the Florists' Exchange when writing.

Advertisement for C. C. Pollworth Co. featuring a dog illustration and text: Headquarters in Western New York For ROSES, CARNATIONS And all kinds of Reasonable Flowers.

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ALSO DEALER IN FLORISTS' SUPPLIES AND WIRE DESIGNS
383-87 Ellcott St. BUFFALO, N. Y.
GIVE US A TRIAL WE CAN PLEASE YOU
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J. B. MURDOCH & CO.

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Pittsburg Florists' Exchange
WHOLESALE FLORISTS and Florists' Supplies
228 DIAMOND STREET
Send for weekly price list and prices on large orders. Pittsburg, Pa.
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BOSTON, MASS.

Asparagus Plumosus
WELCH BROS.
Mignonette
Chrysanthemums
Lily Harrisii
Brides, 'Malds
American Beauties
CITY HALL CUT FLOWER MARKET
15 PROVINCE ST.—9 CHAPMAN PL.
Kaiserins
Violets
Carnots
Orchids
Valley
Carnations
Can furnish at short notice. Price according to quality of goods. Long Distance Telephone 6287 and 6288

H. G. BERNING
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1402 Pine Street, ST. LOUIS, MO.
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HOLTON & HUNKEL CO.
Wholesale Florists
Florists' Supplies
Manufacturers of Wire designs.
457 Milwaukee Street, MILWAUKEE, WIS.
'Phone, Main 874. P. O. Box 103.
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Kroeschell Bros. Co.
IMPROVED
Greenhouse Boiler
33 ERIE ST., CHICAGO



Boilers made of the best of material, shell firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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THIS
OUT,

SEND
WITH
INQUIRY,

AND
SECURE
SPECIAL
DISCOUNT

*Extra Discount
This month only
Send order at once*

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The Standard Ventilating Machinery

The original machine with self-oiling cups; the most powerful, least complicated, very compact, with ease of operation.
The New Duplex Gutter, over six miles in use and highly recommended; the only drip proof gutter in the market.
The Standard Return Steam Trap has no equal for simplicity or its workings. Catalogue free.

E. HIPPARD, Youngstown, O.

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CASPER LIMBACH GREENHOUSE GLASS
A SPECIALTY

Window Glass. Painters' Supplies.
32 Washington Ave., 31st Ward, Pittsburg, Pa.

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HEATING HEATING

Let me furnish facts why you should give me your Heating Work. I have convinced others. Why not you?

Write for Prices on HEATING SUPPLIES of All Kinds
Eastern Agent Furman and Kroeschell Boilers

WM. H. LUTTON

West Side Ave. Station, JERSEY CITY, N. J.



Material for our patent Short-Roofed Greenhouses, as above cut, and all other styles of Construction, either of Washington Red Cedar or Louisiana Cypress quality

Invariably the best that Can be Produced

Catalogue, plans and estimates free on request.

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 in. pots in crate,	\$4.88	120 7 in. pots in crate,	\$4.20
1500 2 1/2 " " " "	5.25	60 8 " " " "	3.00
1500 3 " " " "	6.00	HAND MADE	
1000 3 " " " "	5.00	48 9 in. pots in crate,	\$3.60
800 3 1/2 " " " "	5.50	24 11 " " " "	3.60
600 4 " " " "	4.50	24 12 " " " "	4.80
320 5 " " " "	4.51	12 14 " " " "	4.80
144 6 " " " "	3.18	6 18 " " " "	4.80

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order.

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August Rolker & Sons, Agts. 81 Barclay St., N.Y. City
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BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue

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Evans Improved Challenge

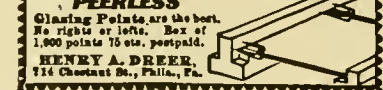
Roller bearing, self-oiling device automatic stop, solid link chain make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

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Mention the Florists' Exchange when writing.

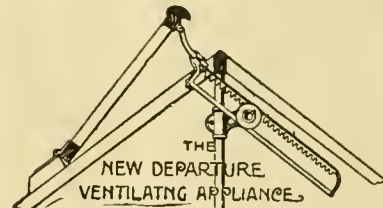
Holds Glass Firmly

See the Point



Glasing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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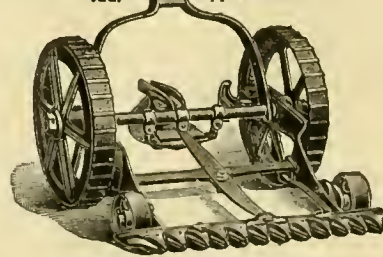
COSTS LESS and does better work. Send for Descriptive Price List

J. D. CARMODY EVANSVILLE, IND.

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Clipper The MOWER

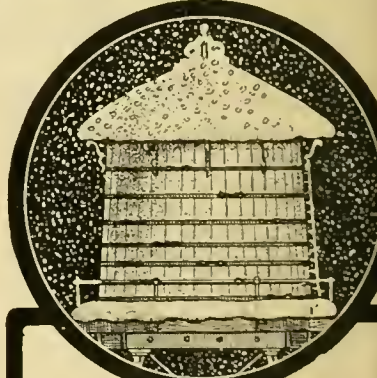
that will Kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below in the price: No. 1-12 in. Mower, \$5.00; No. 2-16-1 a Mower, \$6; No. 3-18 in. Mower, \$7; No. 4-21-1 a Mower, \$8. Send draft money order or reg. letter
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"Absolutely Safe and Reliable." Ask your friends.

WE MAKE TANKS

In all Sizes from 100 to 100,000 Gallons Capacity.

IN ALL SERVICEABLE MATERIALS AND IN ALL PRACTICABLE SHAPES FOR ALL PURPOSES

Write for Catalogue

THE W. E. CALDWELL CO. LOUISVILLE, KY.

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OUR LOUISIANA CYPRESS

Is Thoroughly Air Dried and Free From Sap

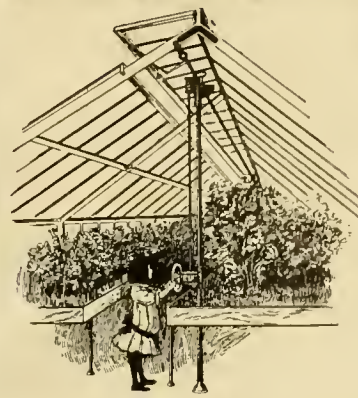
This is the very best material now offered to the trade for greenhouse construction. We have the largest stock of this high grade cypress in the North, and can promise quick service in filling all orders entrusted to us. Estimates and designs furnished on application. We will be pleased to figure with you on your contemplated work.

Our New Detail List Mailed on Request

RED CEDAR POSTS IRON FITTINGS HOT BED SASH

LOCKLAND LUMBER CO.

LOCKLAND, O.



We furnish high grade

VENTILATING APPARATUS

RAISING THE SASHES

In Greenhouses and other Buildings. By means of OIL-CUPS IT RUNS SMOOTHLY.

Send to-day to our New York Office for our Heating and Ventilating Catalogue; and for Greenhouse Construction Catalogue.

LORD & BURNHAM COMPANY

NEW YORK OFFICE
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IRVINGTON-ON-HUDSON, NEW YORK

GLASS

For Greenhouses, Graperies, Hotbeds, Conservatories, and all other purposes. Get our figures before buying. Estimates freely given.

N. COWEN'S SON,
392-94 W. Broadway, NEW YORK.

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GREENHOUSES.

MATERIAL FURNISHED AND MEN TO SUPERINTEND ERECTION IF DESIRED.

CYPRESS SASH BARS ANY LENGTH UP TO 32 FEET OR LONGER.

The A. T. Stearns Lumber Co.,
NEPONSET, BOSTON, MASS.

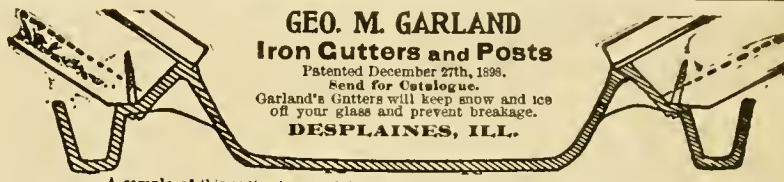
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HOTHOUSE GLASS

and GREENHOUSE PUTTY a Specialty.

C. S. WEBER & CO.
10 Desbrosses St., New York

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GEO. M. GARLAND
Iron Gutters and Posts
Patented December 27th, 1898.
Send for Catalogue.
Garland's Gutters will keep snow and ice off your glass and prevent breakage.

DESPLAINES, ILL.

A sample of this gutter is on exhibition at the Chicago Flower Growers' Market.

THE JENNINGS IMPROVED IRON GUTTER

PATENT IRON BENCH FITTINGS AND ROOF SUPPORTS. VENTILATING APPARATUS, IMPROVED VAPORIZING PANS for Tobacco Extracts, Etc.

SEND FOR CIRCULARS

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Successors to JENNINGS BROS.
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GREENHOUSE Heating and Repairing

CHARLES H. DODD, P. O. Box 74. Madison, N. J.

EUREKA GREENHOUSES

Send for catalogue Get the best Greenhouse Material, Composition Posts

DILLON GREENHOUSE MFG. CO., Bloomsburg, Pa.

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GREENHOUSE MATERIALS

The Best Quality and Work Guaranteed.

CYPRESS SASH BARS Absolutely clear, sun dried; cut to exact sizes.

TENN. RED CEDAR POSTS In lengths as wanted.

PECKY CYPRESS BENCHES Economical and lasting. Coming into general use.

HOT-BED SASH and FRAMES Various styles and sizes. Ready for prompt shipment.

VENTILATING APPARATUS It works like a charm.

PIPE, FITTINGS, GUTTERS, GLASS And all supplies needed in new or reconstruction work.

Get our Estimates, Plans and Suggestions on Structures Proposed. Illustrated Catalogue sent postpaid.

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LET US CONVINCING YOU that our work is first-class both as regards workmanship and material. Advanced business methods make our prices convincing in themselves.

Write to us now and WE WILL CONVINCING YOU.

JOHNSTON HEATING CO.,
Telephone 1066 Madison Square.

St. James Bldg., 1133 B Broadway, NEW YORK

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Scollay Invincible Boilers

FOR HOT WATER AND STEAM.

Boilers that respond quickly and are unequaled for their efficiency, simplicity of construction and economy of fuel.

Greenhouse Pipe and Fittings

Genuine Wrought Iron Pipe (not steel) 2 in., 10 1/2 c. per foot.

Horticultural building of every description.

JOHN A. SCOLLAY
72-74 Myrtle Ave., Borough of Brooklyn
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Established 42 Years

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GULF CYPRESS GREENHOUSE MATERIAL

Hot Bed Sash
Greenhouse Glass
Twin Section Boilers

PIPE, FITTINGS and VENTILATING APPARATUS

We Furnish Everything for the Erection of Greenhouses

CATALOGUE AND PRICES ON APPLICATION

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KING CONSTRUCTION COMPANY

North Tonawanda, N. Y.,
and Toronto, Canada.

New Greenhouse Catalogue ready for
distribution. Send for it.

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MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. D. PIERCE CO.
170 Fulton St.,
NEW YORK



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Century Sprayer.
Best barrel sprayer made. Capacity and adapt-
ability to suit all requirements.
These are features: its valves are
brass. Cylinder and plunger
are brass. Indestructible
packing crimps. Large air
chamber. Agitator that agi-
tates. Its low
PRICE PLEASES
We make twenty styles
sprayers. Every need
specially met with Hand,
Bucket, Knapsack, Pow-
er Sprayers. Spraying
catalog free. Booklet on
insects and plants and
fruit diseases 10c.
THE DEMING CO., Salem, O.
Benken & Hubbell, Western Agents
Chicago, Ill.



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WHOLESALE TRADE LIST

ABUTILON SAVITZII, 2 in. pots, 50c. per
doz., \$3.00 per 100.
ALTERNANTHERAS, strong, red and yellow,
2 1/2 in. pots, \$2.50 per 100.
AMPELOPSIS VEITCHII, 4 in. pots, \$1.50 per
doz., \$10.00 per 100.
ASPARAGUS PLUMOSUS, 2 in. pots, 50c.
per doz., \$3.00 per 100.
ASPARAGUS SPRENGERI, strong, 3 in. pots,
75c. per doz., \$5.00 per 100; 2 1/2 in. pots, 50c. per
doz., \$3.00 per 100; from flats, \$1.00 per 100.
ASTERS, Queen of the Market, separate col-
ors, 50c. per 100.
BOUARDIA, single, white, 2 1/2 in. pots, 50c.
per doz., \$3.00 per 100.
BOUARDIA HUMBOLDTII, for Summer
flowering, 2 in. pots, \$3.00 per 100.
CLEMATIS, large flowering varieties, 4 1/2 in.
pots, \$3.00 per doz.
COLEUS, Golden Belder and Verschaefelli, 2 1/2
in. pots, \$2.50 per 100.
EUONYMUS AUREA MARGINATA, strong
plants, from 8 in. pots, \$2.00 per doz.
EUONYMUS RADICANS, 2 1/2 in. pots, 50c. per
doz., \$3.00 per 100.
GOLDEN FEATHER, 2 1/2 in. pots, \$2.00 per 100.
HYDRANGEA, Thos. Hogg, fine plants, from
6-8 buds each plant, 5 in. pots, \$2.00 per doz.
IVY, Hardy English, 4 in. pots, \$1.50 per doz.,
\$10.00 per 100.
MOONVINE, 1 in. pots, 75c. per doz., \$5.00 per
100.
MYOSOTIS, Summer flowering, in bloom,
clumps, \$4.00 per 100.
PANSIES, in bloom, separate colors, yellow,
blue and white, \$2.00 per 100.
PASSIFLORA, Coerulea, 4 in. pots, \$1.00 per
doz.
SALVIA, Splendens, Bonfire and Silver
Spot, 2 1/2 in. pots, \$2.50 per 100.
SALVIA Splendens, 3 in. pots, 75c. per doz.,
\$5.00 per 100.
STOKESIA CYANEA, 2 1/2 in. pots, 75c. per
doz., \$5.00 per 100.
STEVIA, variegata, 2 in. pots, \$3.00 per 100.
VERBENAS, in bud and bloom, \$3.00 per 100.
C. EISELE, 11th & Jefferson Sts.,
PHILADELPHIA, PA.
Mention the Florists' Exchange when writing.

The Florists' Hail Association
of America has paid 840 losses in 18 years amount-
ing to over \$79,000. For particulars address
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HOT WATER Radiation from
4,200 Square Feet and Up.
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on Greenhouse Construction
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233 Mercer St., NEW YORK.
ESTABLISHED 1844.



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RED GULF CYPRESS GREENHOUSES
FLAT IRON FRAME RAFTER GREENHOUSES
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for both private and commercial purposes.
WE ALSO MANUFACTURE Hotbed Sash and Frames, Self-locking Vent-opening Apparatus,
Wood and Iron Frame Benches and Tables, Special Hand-made Greenhouse Potty.
Write to-day for prices.
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Weddings and Commencements

are numerous during June. Are you prepared?

We have a large assortment of

Baskets, of all styles and sizes.

Fibre Ribbon, Fancy Pot Covers.

Crepe Paper, two-toned, and of all shades of color.

Porto Rico Mats

H. BAYERSDORFER & CO.

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50 to 56 North 4th Street

PHILADELPHIA, PA.

IT'S TUESDAY, JUNE 27

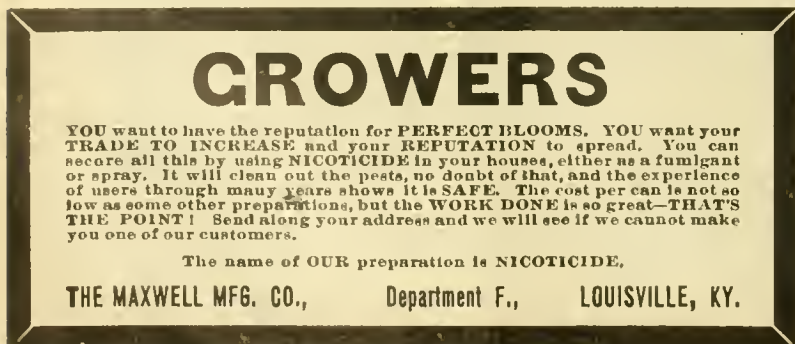
that we inaugurate our **THIRD ANNUAL TRADE SALE**, a feature which is growing in
popularity amongst Growers. Why? To secure stock to grow on. At this Sale we will offer a class
of goods suitable for all Growers in the **Palm and Fern Line**. Also **Decorative Stock**.

DO NOT OVERLOOK IT. WRITE FOR CATALOGS.

WM. ELLIOTT & SONS, AUCTIONEERS, 54 & 56 Dey St., New York

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GROWERS
YOU want to have the reputation for **PERFECT BLOOMS**. YOU want your
TRADE TO INCREASE and your **REPUTATION** to spread. You can
secure all this by using **NICOTICIDE** in your houses, either as a fumigant
or spray. It will clean out the pests, no doubt of that, and the experience
of users through many years shows it is **SAFE**. The cost per can is not so
low as some other preparations, but the **WORK DONE** is so great—**THAT'S**
THE POINT! Send along your address and we will see if we cannot make
you one of our customers.
The name of OUR preparation is **NICOTICIDE**.
THE MAXWELL MFG. CO., Department F., **LOUISVILLE, KY.**



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A. HERRMANN
Manufacturer of Floral Metal Designs
IMPORTER AND DEALER IN FLORISTS' SUPPLIES
FACTORY: 709 FIRST AVENUE, BETWEEN 40th AND 41st STREETS, NEW YORK
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WRITE FOR NEW CATALOGUE



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THE FLORISTS' EXCHANGE

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

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

Vol. XIX. No. 25

NEW YORK, JUNE 24, 1905

One Dollar Per Year

NEPHROLEPIS PIERSONI ELEGANTISSIMA (The Tarrytown Fern)

We have a grand lot of this in 6-inch and 8-inch pots—fine specimens, for which we have a splendid demand. Retail florists find this one of the best selling plants ever handled, even at the present novelty prices. We can supply 6-inch plants at \$2.00 each, and 8-inch at \$3.00 each.

Now is the time to obtain a supply of this in small plants and grow it on for retail trade. We have a splendid lot of very strong, heavy established plants in 2 1/4-inch pots, which, if shifted at once, will make grand stock for fall. Price, \$50.00 per 100. These are not light rooted runners from bench, but are strong established plants from 2 1/4-inch pots.

We also offer a lot of

PIERSON FERNS In large sizes for immediate sale for summer decoration. 6-inch at 50c. each; 8-inch at \$1.00 each; 10-inch at \$1.50 to \$2.00 each. Larger specimens, \$3.00 each.

NEPHROLEPIS SCOTTII Fine plants, 6-inch pots, \$1.00 each; 8-inch, \$2.00 each.

ADIANTUM CROWEANUM Extra fine plants, 6-inch pots, extra fine for immediate use or for growing on, \$6.00 per dozen.

KENTIAS FOR DECORATING We have a nice stock of large plants which have been grown in a very low temperature all winter, and consequently are hardy and splendid for decorating, as they will stand a good deal of knocking around. Florists who need large stock for decorating or for hotels, piazzas, etc., in exposed places will find this stock unusually satisfactory. We offer various sizes from \$6.00 to \$15.00 each, according to size.

EXTRA LARGE FICUS FOR DECORATING We have some plants, grown in tubs, several plants in a tub, and in consequence are very well furnished, and very bushy, ranging in height from five to ten feet. Splendid for hotels, piazzas, etc., and useful for decorating. \$5.00 to \$10.00 each.

DRACAENA INDIVISA Fine stock in 6-inch pots, the most useful size for florists' use. 50c. each.

ENGLISH IVY Strong plants, 3 1/2-inch pots, \$12.00 per 100.

GERANIUMS Double General Grant, La Favorite, Duc de Montmart, Paunpeck, etc. strong plants, 3 1/2-inch pots, \$8.00 per 100.

SALVIA SPLENDENS (Scarlet Sage). Fine strong plants, \$4.00 per 100.

ANTIRRHINUM (Snapdragon). Separate colors, \$6.00 per 100.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

THIS IS A SAMPLE OF MY GRAFTED STOCK

EXCEPTIONALLY STRONG
HEALTHY PLANTS OF

Bride and
Bridesmaid

In 2 1/2 Inch and
4 Inch Pots

I can also supply extra fine
large plants of the above
varieties on their own roots.
All my stock is clean and
free from disease.

SEND FOR SAMPLES

W. H. ELLIOTT
BRIGHTON, MASS.



Mention The Florists' Exchange when writing.

LILIUM HARRISII BERMUDA EASTER LILIES Three-Leg Brand

Our grower states that we can expect to receive our first shipment of early forcing bulbs on steamer leaving Bermuda July 14th. Our Harrisii Lily Bulbs give so much satisfaction over all other stocks; being free from disease and the true Harrisii type, they recommend themselves to all Florists requiring reliable stocks at moderate prices.

READ WHAT OUR CUSTOMERS SAY:

[Unsolicited] Dear Sirs:—We wish to inform you that the Liliium Harrisii we had from you last year were very satisfactory indeed. They were the "true" Harrisii, with very large flowers; perfectly healthy plants. They were also very early and even—so even that we cut a 100-foot hange between November 15th and January 10th—all clean, with scarcely any waste. We shall surely increase our order the coming season.
RANDOLPH, MASS., February 21, 1901.
(Signed) MANN BROTHERS.

CLUCAS & BODDINGTON CO., New York City. Dear Sirs:—We are pleased to advise you that recent consignment of Harrisii Lilies of July 30, 1903, were out on the 9th ult. and prove very satisfactory. Loss is exceedingly small and we ask you to enter an additional order for 2000 of same variety.
Pittsburg, December 1, 1904.
Truly yours, (Signed) H. L. BLIND & BROS.

PRICES OF Liliium Harrisii Bulbs FOR JULY AND AUGUST DELIVERY

Regular Harrisii, as usually sold.		3-Leg Brand, For early forcing	
	100	100	1000
5-7, 400 in box.....	\$3.50	\$30.00	\$4.00
8-7, 350 " ".....	4.00	37.50	5.00
7-9, 200 " ".....	4.50	40.00	5.50
8-11, 100 " ".....	14.50	135.00	20.00
11-13.....	35.00		50.00

One Whole Case of All Sizes Sold at 1000 Rates.

Prices of Gold Storage Liliium Bulbs IMMEDIATE SHIPMENT

SHOULD BE PLANTED NOW FOR EARLY FALL FLOWERING
COLD STORAGE LILIUM SPECIOSUMS

LILIUM LONGIFLORUM GIGANTEUM (Dark Stem)		LILIUM SPECIOSUM RUBRUM (Dark Red)	
	100	100	1000
5 to 7 in. bulbs, 500 in a case.....	\$5.00	\$49.00	
7 to 9 in. bulbs, 300 in a case.....	7.50	65.00	
LILIUM LONGIFLORUM (Our "Special Stock")			
7 to 9 in. bulbs, 300 in a case.....	7.50	60.00	
9 to 10 in. bulbs, 200 in a case.....	11.50	100.00	
10 to 12 in. bulbs, 150 in a case.....	17.50	150.00	
LILIUM HARRISII—Cold Storage, present delivery			
5 to 7 in. bulbs, 400 in a case.....	5.00	40.00	
LILIUM TIGRINUM			
Splendens (Single), 7-9 in., 150 in case.....	4.00	35.00	
Double.....	4.00 to case	5.00	45.00

Get our prices for COLD STORAGE VALLEY. Can ship every day in the year.
Prices on all other Bulbs on application.



CLUCAS & BODDINGTON CO. 131 WEST 23d STREET, N. Y. CITY
PALISADE NURSERIES, SPARKILL, N. Y.
Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

CHOICE EVERGREENS

Peony and Carnation
Specialists

Large Tree Moving
Landscape Development

COTTAGE GARDENS CO.

Queens, L. I., N. Y.

RUSTIC WORK



VASES, - - - \$4.00 a Pair
 WINDOW BOXES, - \$1.00
 RUSTIC HANGING BASKETS
 10 in., \$1.00; 12 in., \$1.15; 15 in., \$1.50 Each

NICO-FUME LIQUID ¼ pt., 50c.; pint, \$1.50
 Useful for Spraying and Vaporizing
 APHIS PUNK per box 12 rolls, 60c.
 " " per case 12 boxes, \$6.50
 SULPHUR 10 lbs., 40c.; 100 lbs., \$3.50
 The best Curative for Mildew
 LIBERTY HOSE, ¾ in. in 25 or 50 ft. lengths, 10c. per foot.
 SHEEP MANURE \$1.25 per 100 lbs.; \$20.00 per ton.
 BAMBOO CANES 6 to 8 feet, \$6.00 per 1000

WM. ELLIOTT & SONS, NEW YORK

NEVER BEFORE OFFERED

Lilium Longiflorum Multiflorum

Original Japan stock, in fine healthy condition, ready for delivery July, 1905

5 x 7 size, \$25.00 per 1000; \$3.50 per 100
 7 x 9 " 65.00 " 8.00 "
 9 x 11 " 130.00 " 15.00 "

Orders will be accepted as long as stock to arrive, which is very limited, is unsold. Terms, Net Cash, 30 days. Write for Special Price on all other Bulbs, Roots, Etc.

F. W. O. SCHMITZ, Prince Bay, N. Y.

Importer and Exporter



PURE CULTURE Mushroom Spawn

Per 10 lbs., \$1.20; per 100 lbs., \$10.00

Allen's Defiance Mignonette (Greenhouse Grown)

Per pkt., 1000 Seeds, \$1.00; per 2000 seeds, \$1.50

STUMPP & WALTER CO., 50 Barclay Street, NEW YORK

Branch Store, 404 East 34th Street, New York
 Mention the Florists' Exchange when writing.

BULBS for FORCING

Lilium Harrisii, Lilium Longiflorum,
 White Roman Hyacinths, Paper White
 Narcissus.

Orders booked now for early delivery.

WEEBER & DON, Seed Growers
 and Merchants
 114 Chambers Street, NEW YORK

WE AIM

to supply only

SUPERIOR STOCK

When making up your catalogue, write us for prices on Summer flowering bulbs.

JOHN LEWIS CHILDS, Floral Park, N. Y.

Florists' Bulbs

Best Grade Only

IMPORT ORDERS NOW BOOKED

Write for Prices

W. C. BECKERT
 Allegheny, Pa.

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FISCHER'S GRAND PURITY FREESIA

The finest in existence. A magnificent glistening white, of great substance, long strong stems (2 ft.), of largest size and very fragrant, very prolific in both flower and bulbs, producing bulbs of immense size when well grown. Price, \$4.00 per 100; \$30.00 per 1000. 500 at 1000 rate. Discount on 5000 lots. Ready now. Cash with order, please.

R. FISCHER Great Neck L.I., N.Y.

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PANSY SEED

Brown's Extra Select Superb Giant Prize Pansies
 Awarded Silver Medal, St. Louis Exposition, 1904

It is a well-known fact that my superior strain of Pansies are the finest in the market and have won prizes wherever exhibited. Flowers are from three to four inches in diameter. In beauty they are unsurpassable, and in color they are incomparable. My own grown seed, new 1905 crop, ready.

See illustration of Pansy Field, grown for seed, in this issue.

PRICE, MIXED SEED:

3,000 Seeds, \$1.00; ¼ oz., \$1.50; ½ oz., \$2.50; 1 oz., \$5.00;
 ¼ lb., \$14.00; ½ lb., \$25.00; per lb., \$50.00

Cash with order. Plants ready September 1.

PETER BROWN, Lancaster, Pa.

PANSY SEED GROWER

Mention The Florists' Exchange when writing.



ENGLAND'S PRIZE STRAINS
CINERARIA, CALCEOLARIA
and CHINESE PRIMROSE

Absolutely unsurpassed in size and brilliancy of color. If you have been growing the American seed you will have a startling revelation when you behold these incomparable English Strains.
ENGLISH PRIZE MIXED CALCEOLARIA AND CINERARIA
 Half trade packet.....50c. Trade packet..... \$1.00.

PRIMULA SINENSIS (Chinese Fringed Primrose)
 English Prize Fringed Mixed.....per 100 seeds, 25c.; 500 seeds, \$1.00; 1000 seeds, \$1.75
 Obconica Grandiflora Mixed.....trade pkt., 30c. Stellata (Star Primula).....trade pkt., 50c.
 Forbesii (Baby Primrose), trade pkt.....40c.

HOW MANY FALL BULBS DO YOU USE ?
 Send us your list stating quantities needed and we'll yourself of our Special Advance Prices.
JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.
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Japan Bamboo Stakes

Durable, best for staking Lilies, Roses, Chrysanthemums, Shrubs, etc.
 100 1000 2000
 4 feet.....\$0.40 \$2.75 \$5.00
 8 "......75 5.50 10.00
 Less 5 per cent. for cash.

SEEDS

Sow Now. 80 per cent. germination.
 100 1000 5000
 Asparagus plumosus nanus.....\$0.30 \$2.00 \$9.00
 " Sprengeri......15 1.00 4.00
 Primula sinensis himbriata--
 Separate colors (white, rose, 100 500 1000
 blood-red, blue).....\$0.25 \$1.10 \$2.75
 All colors, mixed......20 .85 1.50
 Cineraria grandifl. max. nana.....pkt. 5 pkts.
 in separate colors (pure white, new
 rose, blood-red)......30 1.25
CINERARIA STELLATA
 The finest, most floriferous Cineraria known.
 Flowers in large umbels. Pure white, light blue,
 mauve, violet and purple. Finest cut flower
 for funeral work, 500 seeds, 25 cts.
 See our ad. June 10th and 17th—
 Orchids and Lit. Harrisii.
 Address—
H. H. Berger & Co., 47 Barclay St. New York

1,000,000 CALLA BULBS

All above 1 1/2 inches in diameter, and every bulb guaranteed a perfect crown.
NEW CROP ONION SETS NOW READY
 Grown without rain or irrigation. Write for prices.
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LAWN GRASS SEED in Bulk and Packages
 Dickinsons, Evergreen, and Pine Tree Brands
SPECIAL MIXTURES SEED FOR GOLF GROUNDS
 MINNEAPOLIS THE ALBERT DICKINSON CO. CHICAGO
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Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue mailed free upon request.
L. K. PEACOCK, Inc., ATCO, N. J.
 Mention The Florists' Exchange when writing.

50,000 FINE CALLA BULBS READY

The above bulbs are free from disease and are true to measurement.
 1 1/2 inches diameter.....\$4.00 per 100; \$35.00 per 1000
 2 inches diameter..... 5.00 " 45.00 "
 2 1/2 inches diameter..... 6.00 " 55.00 "
 3 inches diameter..... 7.50 " 70.00 "
GET YOUR ORDER IN EARLY
 Freight prepaid at the above prices. 250 at 1000 rate. CASH.
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EMPEROR

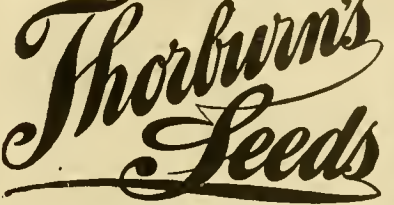
This grand flowering Narcissus will force and sell at Easter. Try it.
 \$12.50 per 1000; \$120.00 per 10,000
HUBERT & CO.
 N. Le Page, Rep. Mt. Vernon, N. Y.
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PHILADELPHIA
 Blue List of Wholesale Prices mailed only to those who plant for profit.
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PANSY SEED

THE JENNINGS STRAIN
 of finest American-grown Pansy Seed (New Crop) now ready. Large flowering, finest colors in great variety, none better, by mail, packet of 3000 seeds, \$1.00; 1 oz., \$5.00; 3 ozs., \$12.00. Plants in September. Cash with order.
E. B. JENNINGS, Lock Box Southport, Conn. 254.
 Grower of the Finest Pansies.
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We are now booking orders for
LILIUM HARRISII
LILIUM LONGIFLORUM
ROMAN HYACINTHS
PAPER WHITE NARCISSUS, &c.
 Apply for prices, stating number wanted

CYCAS REVOLUTA, \$8.00 per 100 lbs.
COLD STORAGE VALLEY PIPS, in cases of 3,000, at \$10.00 per 1000.
J. M. THORBURN & CO.
36 Cortlandt St. New York
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HAVING BEEN AWARDED THE GRAND PRIZE
 For My Exhibition of
GLADIOLI AT THE WORLD'S FAIR
 It is with increased confidence in my ability to supply superior stock that I solicit a continuance of patronage, and new customers. Groff's Hybrids and other sorts, the best obtainable.
 Write for Catalogue. **ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, New York**
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FIRST EARLY SHIPMENTS

Laughan's Bulbs
 JULY—First Harrisii, Freesias.
 AUGUST—10-15—Roman Hyacinths.
 AUGUST—25—Paper White Narcissus.
 SEPTEMBER—1—Lilium Candidum.
 SEPTEMBER—15—Hyacinths, Tulips and other Dutch Bulbs.
 OCTOBER—Full supply of Lilies.
 NOVEMBER—15—Spiraea, Lily of the Valley.
 DECEMBER—1—New Crop of Tuberoses.

We import by fast steamer one-fourth of our **ROMAN HYACINTHS, FREESIAS** and **PAPER WHITES** needed for Thanksgiving and Christmas trade. By doing this we put these kinds of Bulbs in your hands two weeks earlier than if you wait for your entire order from Holland and France.
EASTER, 1906, APRIL 15th.—Order Early. It Helps Us and You
 Write or call for **SPECIAL IMPORT PRICE LIST—Now Ready**
J. C. VAUGHAN, Pres. VAUGHAN'S SEED STORE C. CROPP, Sec'y-Treas.
CHICAGO: 84 and 86 Randolph Street NEW YORK: 14 Barclay Street
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We are growing 500,000 Roses of the best leading varieties of Hybrid Perpetuale, Hybrid Teas and Climbers in 2 inch pots. Prices low if orders are given now for next Spring delivery. A large assortment of Shrubs and Evergreens for transplanting. Do not wait. Let us book your order now for next Spring delivery. You will save money.

The Elizabeth Nursery Co.
 ELIZABETH, N. J.
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PLANT STAKES
 No. 10. Steel Wire Galvanized.
 100 1000 100 1000
 2 ft. long, \$0.45 \$4.08 4 1/2 ft. long, \$1.00 \$9.20
 2 1/2 " .55 5.11 5 " " 1.12 10.22
 3 " .65 0.16 5 1/2 " " 1.20 11.27
 3 1/2 " .78 7.18 6 " " 1.30 12.25
 4 " .88 8.10 6 1/2 " " 1.40 13.28

No. 8. Steel Wire Galvanized.
 For staking American Beauty and other strong and tall growing roses.
 100 1000 100 1000
 2 ft. long, \$0.55 \$5.25 4 ft. long, \$1.10 \$10.80
 2 1/2 " .70 6.50 4 1/2 " " 1.25 11.50
 3 " .80 7.50 5 " " 1.40 13.00
 3 1/2 " .95 0.00 0 " " 1.50 15.50

CANE STAKES, Southern .75 6.00
 Japanese, Very thin,
 8 ft. long, 75c. per 100; 50 for \$3.00; \$5.50 per 1000; \$12.50 for 2500.

GREEN PAINTED TAPERING PLANT STAKES.
 1 1/2 ft., 11c. per doz., 90c. per 100; 2 ft., 24c. per doz., \$1.55 per 100; 2 1/2 ft., 35c. per doz., \$2.20 per 100; 3 ft., 46c. per doz., \$2.90 per 100; 3 1/2 ft., 57c. per doz., \$3.60 per 100; 4 ft., 68c. per doz., \$4.35 per 100; 5 ft., 80c. per doz.; \$5.10 per 100.

GREEN PAINTED HEAVY OR DAHLIA STAKES.
 3 ft., 68c. per doz., \$4.40 per 100; 3 1/2 ft., 80c. per doz., \$5.17 per 100; 4 ft., 95c. per doz., \$5.90 per 100; 5 ft., \$1.15 per doz., \$7.40 per 100; 6 ft., \$1.40 per doz., \$8.00 per 100.

For complete list of supplies for the Florists see our New Wholesale List, mailed free for the asking.
HENRY F. MICHELL CO., Growers and Importers, 1018 Market St., Philadelphia, Pa.
 Mention The Florists' Exchange when writing.

ROEMER'S SUPERB PANSIES
 The finest strain of Pansies in the World
 Introducer and Grower of all the leading Novelties
 Highest Award, International Exhibition, Dusseldorf, 1904. Catalogue free on application.
FRED. ROEMER, Seed Grower QUEDLINBURG, GERMANY.
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DWARF BOX

3 to 5 in., \$25.00 per 1000; 2 to 4 inches, \$20.00 per 1000.

Specimen Evergreens In fine assortment. Call and see them.

HIRAM T. JONES, Union County Nurseries **ELIZABETH, N. J.**
Mention the Florists' Exchange when writing.

RHODODENDRON MAXIMUM

and other Broad Leaved Evergreens by the Car-load or in smaller quantities. Ornamental Trees, Shrubs and Roses in great variety, Herbaceous Perennials by the thousand. See our Special Herbaceous Catalogue and Wholesale Trade List. Send for them now.

BAY STATE NURSERIES North Abington, Mass


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NOTICE

To whom it may concern: **RALPH M. WARD & CO.,** New York City, having purchased my crop of Bermuda Harrisii Bulbs for the season of 1905, have the sole right to sell them in the American and Canadian markets and to offer them as

PENISTON'S BERMUDA HARRISII

March 31, 1905. **CLARENCE PENISTON, Hamilton, Bermuda.**
Mention the Florists' Exchange when writing.



WARD'S
HIGH GRADE
Bulbs & Plants
RALPH M. WARD & CO.
12 W. Broadway, NEW YORK

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CYCLAMEN

GIGANTEUM MULTIFL.
Best strains of European specialties. Blood red, white rose, pure white, white with carmine eye, mixed. Above 75c. per 100; \$4.00 per 1000 seeds.
Daybreak, color, \$2.00 per 100 seeds.
Papilio, mixed, \$1.00 per 100 seeds.

HENRY PHILIPPS SEED CO., Toledo, Ohio
Mention the Florists' Exchange when writing.



QUALITY SEED BULBS PLANTS
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
344 West 14th St., New York.

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For the Trade

A full line in Manila, Fibre and Laid papers, white, amber and colored. Printing in large or small quantities, one or more colors, with cultural directions and with or without cuts. Samples and estimates on application.

The Brown Bag Filling Machine Co.
Bag Dept.

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JAMES VICK'S SONS

ROCHESTER, N. Y.

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Seed Trade Report.

AMERICAN SEED TRADE ASSOCIATION

Charles N. Page, Des Moines, Iowa, president; L. L. May, St. Paul, Minn., first vice-president; W. H. Grenell, Pierrepont Manor, N. Y., second vice-president; C. E. Kendall, Cleveland, O., secretary and treasurer.

Secretary Wilson, of the Department of Agriculture, says (Yearbook, 1904): "Of the millions of lily bulbs annually imported, it is safe to say that 40 per cent. are more or less affected by disease. The eventual elimination of this trouble will be due to the work of the department."

Practically all of the vegetable seed distributed by the Department of Agriculture, says Secretary Wilson, is grown in the United States. A few years ago nearly all of the flower seed, except sweet peas, was imported. Now fully 75 per cent. is grown here through the encouragement offered by the Department in this work.

The work of handling one branch only of the Congressional Seed Distribution involves the securing of 25 carloads of special seed, and the testing, packing and mailing of this large quantity to all parts of the United States. The systematizing of all the operations has been so perfected that there is little or no friction at the present time.—Yearbook, 1904.

One of the finest opportunities existing in the country to-day for the development of a paying business, says Professor W. J. Spillman, of the Bureau of Plant Industry, is that for the production of pedigreed seeds of ordinary farm crops. There is a fine opportunity for intelligent farmers in the South in breeding varieties of cotton and corn. "The demand for high-bred seed of all classes of farm crops is practically limitless."

"CANADIAN FIELD PEAS" is the subject of Farmers' Bulletin No. 224, Department of Agriculture, prepared by Professor Thomas Shaw. The pea crop is one of the most important in Canada. In the Province of Ontario alone the average area devoted to the production of peas for the twenty years ended with 1902 was 710,498 acres. The average annual yield during the period named was 13,770,243 bushels, or an average of 19.4 bushels per acre. The greater portion of this crop is fed upon Ontario farms. In striking contrast with the magnitude of the pea crop in Canada is its insignificance in our own country. While the area devoted to peas in Ontario until quite recently was not far behind that devoted to winter wheat, the pea crop in this country is so insignificant, relatively, that it has not been given a fixed place in the Government crop reports. In Minnesota it is not mentioned in the yearbook of statistical returns, and the same seems to be true of nearly all the States in the Union. Great advances, however, have been made during recent years in growing peas in Michigan, Wisconsin, and Montana, and other mountain States.

Headquarters For FIELD-GROWN ROSES

Clematis, Peonies, Fruit Trees, Small Trees, etc.

WRITE FOR PRICES.

W. & T. SMITH COMPANY, GENEVA, N. Y.

Mention The Florists' Exchange when writing.

MONTREAL, CAN.—A lot of information in the value of careful selection of seeds was given to the Committee on Agriculture recently by T. H. Clark, seed commissioner of the Department of Agriculture. He advocated the selection of seed by the farmers and said that 60 or 70 farmers in Ontario had gone into it as a business. Samples of corn which he showed indicated that corn grown in Essex had much larger kernels than that grown farther north, at Guelph or Ottawa. He believed better corn could be secured in the higher latitudes by using the best corn from more southern counties. The Canadian Seed Growers' Association makes regulations for growing selected seed, much the same as live stock associations supervised that branch of agriculture. Ontario supplies nearly all the clover seed grown in Canada, and its product is not excelled anywhere in the world. Half the products are exports, and the Toronto market usually controls the world's prices for alsike seed. Simcoe and Grey counties are probably the largest growers of red clover, and Victoria and Peterboro the best for alsike. The demand for pure seeds in Germany and Austria, for example, had resulted in improving the purity of the Canadian seeds, but much more is expected from the operation of the new seed bill.—Herald.

COWPEA SEED.—A bulletin of the Oklahoma Station calls attention to the fact that cowpea seed always commands a good price, and, in fact, that the price is often so high as to restrict the area planted. This is due to the fact that the peas are difficult and expensive to harvest and store.

The bulletin discusses two methods generally used in harvesting cowpea seed—namely, hand picking and cutting and thrashing the vines. Thorough harvesting by hand requires several pickings at different dates, and as the price of efficient farm labor is usually high this method of harvesting is expensive, it being estimated that hand-picked peas cost from 75 cents to \$1 per bushel for harvesting. Waiting until the vines are ripe and cutting and thrashing or flailing results in a considerable saving of labor and expense, but is accompanied with a considerable loss of seed.

The scythe-mower, one of the bean harvesters found on the market, or an improvised cutter may be used in harvesting the peas. Cutting with the scythe is laborious, and the ordinary mower is difficult to operate in heavy and tangled vines and wastes peas by shelling. On the whole, the best way to harvest the cowpea vines appears to be to cut off the plants just below the surface of the ground by means of a bean harvester. Where much cowpea seed is to be raised in the most economical way such a machine is considered indispensable.

After cowpea vines bearing seed have been cut, it is desirable to get them stored or thrashed as soon as possible, as the sun causes the pods to shed the seed. Usually the vines are so green and contain so many green leaves that they can not be put in a stack or mow without some curing in the field. The vines should be put in cocks at once after cutting, and after a day or so curing in the field be put in small loose stacks or in mows, where the beans that shatter out may be saved. Many times half of the seed is allowed to shatter out after the vines have been shocked by leaving them in the field too long. The greater part of the drying and curing should be done in the stack or the mow.

Cowpea seed is often greatly damaged in storage by the weevil. Such damage can be prevented by putting the seed in a close-covered bin and placing a dish of carbon bisulphid on the top of the seed. The carbon bisulphid evaporates rapidly, and the heavy fumes sink into the mass of the seed and destroy the weevils. The operation should be repeated several times during a season if the seed is to be kept free from the weevil. In small quantities the carbon bisulphid costs

15c. to 25c. a pound. As a rule, one pound of the liquid will treat 30 bushels of the seed. The liquid and the gas are very inflammable and poisonous, and all fire should be kept away from it. If the weevils are kept out and the seed is stored in a dry place it will retain its vitality two or three years.

European Notes.

The very hot wave which passed over the whole of Europe at the end of May broke up in the usual way in a thunderstorm and has been succeeded by weather so cool that one might almost imagine it was March instead of June. It does not appear, however, to do injury to the growing crops; but it very seriously retards their development. Cucumbers, melons and all the gourd and pumpkin family are as yet only in the seed leaf, and growers are devoutly hoping for a long season so that the empty stores of these seeds may be replenished. Prices for these articles have risen somewhat during the past two years, but what avails this augmentation if there be no crop?

Exception to the nonprejudicial character of the cold weather must be made in the case of leek and onion. Of the former the acreage in culture is quite insignificant; of the former there is a considerable quantity, although much below the average acreage. In the south the plants are now beginning to bloom, and the advent of the dreaded midew has brought consternation to many growers. Already several fields are quite destroyed, and as regards the others it is now too late to do anything to arrest the progress of the malady. Hot, dry weather can alone effect a partial cure.

EUROPEAN SEEDS.

CATALOGUES RECEIVED.

WILLIAM D. BURT, Dalton, N. Y.—Catalogue of Garden, Field and Flower Seeds. Illustrated.

CEDAR HILL NURSERY AND ORCHARD COMPANY, Winchester, Tenn.—Price List of Fruit and Ornamental Trees, Evergreens, etc.

THE UNITED STATES NURSERY COMPANY, RICH, MISS.—Catalogue of field grown roses, ornamental shrubs, peonies and Japanese iris. The officers of this firm are: John M. Good, president; Edwin S. Houck, secretary; and S. W. Crowell, manager.

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We manufacture a full line of colored seed bags, for the trade. Send us a list of your requirements and let us quote you prices.

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GRAND DUCHESS OXALIS, Bermuda Buttercups, Amaryllis Johnsonii and Belladonna, Chlidanthus, etc.

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American Seed Trade Association

Twenty-third Annual Convention

at Alexandria Bay, N. Y., June 20-22, 1905

The twenty-third annual convention of the American Seed Trade Association was held at Alexandria Bay, N. Y., June 20-22, 1905, with a gratifying attendance, drawn thither by the excellent program provided, and the natural scenic beauty of the meeting place. President Charles N. Page, of Des Moines, Ia., occupied the chair.

The following firms were elected members of the association: Darch & Hunter, London, Ont.; Hogg & Lytle, Mariposa, Ont.; O. H. Dickinson, Springfield, Mass.; W. A. Dennison, Ellisburg, N. Y.; and F. Williams, Belleville, N. Y.

President Page, in his annual address, dealt with the objects of the organization and its growth from small beginnings, 23 years ago. Its membership now numbers about 100, including almost all the prominent seedsmen in America. Speaking of what the association had accomplished, Mr. Page said that it was due to its direct influence that the postage on seeds, bulbs and plants had been reduced from 16c. to 8c. per pound. The association also secured special concessions in rates from the express companies on seeds, plants and bulbs, and it was a result of its efforts that the central system was adopted. The legislative committee of the association has secured the adoption of certain favorable laws and has defeated other proposed legislation which would have proved unfavorable to the trade.

He made a touching reference to the members deceased during the year—Messrs. J. S. Reynolds, Kansas City; J. N. Kimberlin, Santa Clara, Cal.; and Frank Burkhardt, Crown Point.

The secretary-treasurer's report showed the affairs of the association to be in a very satisfactory state.

The mayor of Alexandria Bay, Mr. Delaney, extended a hearty welcome to the visiting members on behalf of the town.

Major J. H. Dunham, of Cape Vincent, N. Y., made a very able address on "The Points of Interest at the Thousand Islands." He gave a historical sketch of the different towns and places, and dwelt on the beauties of the district. Having lived here for forty years, the Major is in a position to know what he is talking about. The Major is 84 years of age, but bears his years remarkably well.

The afternoon was very pleasantly spent in a trip through the Islands on the new steamer Island Wanderer. This entertainment was provided by W. H. Grenell, Pierpont Manor, N. Y.

The evening session was convened at 8.30, with the president in the chair.

The secretary read a paper by Lester L. Morse, of Santa Clara, Cal., on "Seed Growing in California." Mr. Morse himself was unavoidably absent.

C. L. Allen, Floral Park, N. Y., who never misses a convention, then read an able paper on "Good Seeds Which Do Not Grow." He was followed by Harry L. Holmes, Harrisburg, Pa., with a paper on "Trials and Pleasures of the Seed Trade." Owing to the absence of W. H. Maule, of Philadelphia, his paper on "Methods of Advertising" was read by J. Dungan.

The election of officers resulted as follows: President, W. H. Grenell, Pierpont Manor, N. Y.; first vice-president, L. L. May, St. Paul, Minn.; second vice-president, G. B. McVay; executive committee, Messrs. C. N. Page, S. F. Willard, G. B. McVay, M. H. Duryea, F. W. Bolgiano; membership committee, Albert McCullough, W. L. Woodruff, Alfred J. Brown; secretary-treasurer, A. C. Kendel, Cleveland, O.; assistant secretary, F. H. Funk, Bloomington, Ill.

M. E. Templin, of Calla, O., read a paper on "The Modern Seed Catalogue;" followed by Professor Piper of the Department of Agriculture with an address on "New and Desirable Forage Plants."

The third session was called to order by Pres. Page at 9:30 a. m., Wednesday. Reports were read from the following committees: Committee on Government Seed Distribution, Committee on Weights and Measures, and Committee on Seed Legislation.

Professor Duval of the Department of Agriculture, Washington, D. C., read a paper on "Seed Adulteration," dealing with the evil and the means adopted for its suppression, expressing the hope that the Seed Trade Association would co-operate with the Department in the effort to stamp out the practice. On motion of Mr. Ebeling, a committee of six, with power to add to its number, was appointed to consider the question and report at a later session. The committee was named by the chair as follows: W. P. Stokes, C. S. Green, M. H. Duryea, F. H. Ebeling, C. S. Burge, and Albert McCullough.

The committee on Tariff, Customs, and Express presented its report. On report of the Membership Committee the following three new members were added to the list: Wm. Ewing & Co., Montreal; H. C. Basler, Waterloo, Neb.; The Planters' Seed Co., Springfield, Mo.

R. U. Conger, Manager of Sheldon's School of Scientific Salesmanship, New York City, presented a very able address on "The Science of Business Building" which was so much appreciated by the members present that it was decided to publish it in pamphlet form, for distribution among the members. The afternoon

was devoted to a trip on the "New Island Wanderer" to Brockville, Ont., and return leaving Alex Bay at 1.30 and returning at 6.30. Sufficient stay was made at Brockville to enable the excursionists to see the place.

The banquet took place on Wednesday evening, and was a most enjoyable affair.

Those Present.

Among the members present were: C. L. Allen, W. H. Barret, F. W. Bolgiano, R. Bolgiano, F. Brill, A. J. Brown, W. F. Jones, Churchill & Co., H. H. Pease, R. Millham, S. F. Willard, L. J. Connell, C. W. Crossman, O. H. Dickinson, A. C. Johnston, F. Emerson, S. W. Ewing, C. S. Burge, J. H. Ford, F. H. Funk, J. B. Davis, T. Griswold & Co., W. H. Grenell, H. L. Holmes, P. Hollenbach, C. N. Page, S. Misbell & Co., W. P. Stokes, C. N. Keeney, A. C. Kendel, S. F. Leonard, J. M. Lupton, E. E. Dungan, L. L. May, Albert McCullough, J. Chas. McCullough, G. B. McVay, M. H. Duryea, E. L. Page, P. A. Phillips, J. B. Rice, W. D. Ross, H. M. Schisler, W. D. Steele, S. E. Briggs, W. J. Templin, N. M. Bossinger, R. L. Burge, J. C. Vaughan, O. H. Will, S. D. Woodruff, J. L. Young, F. Williams, W. H. Denison, A. N. Clarke, F. S. Platt, R. W. Wood, A. F. Trumble, W. T. Phillips, T. N. Griswold, C. P. Braslan, F. B. King, W. T. Fonda, J. T. Buckbee, J. K.

Good Seeds That Fail to Grow.

(Read by C. L. Allen, Floral Park, before the American Seed Trade Association at Alexandria Bay, N. Y.)

The general impression is, among both dealers and planters, that when seeds are put into the earth and fail to produce plants for the reproduction of the species, variety or type, as the case may be, it is because they have lost their vitality; and from no other cause whatever. But there are other causes, vital ones—these should never be charged up against the seeds, neither the seedsman, who is, in very many cases, the innocent victim. Some forty years ago, when I thought my head contained nearly all that was worth knowing about plants and their reproduction, and I hung out my sign as a bulb dealer, with results following, I had many interesting experiences.

One day a customer wrote me from Greenwich, N. Y., asking for the best manure for a lily bed, as well as a lot of other questions regarding bulbs and their cultivation and propagation. All of which I answered to the best of my ability, in their numerical order, and, I think, satisfactorily. To the manure query, which was No. 1, I used the monosyllable—Brains.

In due time an order came for bulbs, with thanks for cultural instructions, which was repeated from time to time in years after. Some ten years after our dealings ceased, I happened through that village on my way to Cambridge, and chanced to see the sign of my customer, who was an M. D., and I made a call, which at the start was anything but pleasant. Upon presentation of my card he asked many questions in way of identity. After which he said, some ten years before I had most grossly insulted him, which was a surprise, as I had not the slightest idea that such a thing was or could be possible, having quite forgotten the manure query. Of course, an explanation was demanded, and it came by his stating the question and answer. While saying those few words, his face bore every evidence of cold anger.

His wife was present at the time and suffering intensely from rheumatic neuralgia. As I was in for it an apology was due. I said: "My dear sir, your charges are just, and from which there is no appeal, but truly had I ever seen you the answer would have been different, having too much sense to ask a man to apply that which he had not got, as Horace Greely said, when sued by J. Fenimore Cooper for libel, 'If a man has not brains, he is not obliged to use them in this free country.'"

The poor rheumatic sufferer shook with laughter, and she said: "Dr., you have got your just dues for that practical joke," and her laughter continued until perspiration relieved her sufferings. And the M. D. has now brains for crest and shield, and they are his companions in all his garden walks.

We all know that seeds lose their vitality, and it can never be restored, and it is a fact equally well known that the germ in seeds is often destroyed because brains are not used in their sowing.

Let us now take up the subject in detail.

Vegetable Reproduction.

All vegetable forms, but more particularly those in which this association is interested, are the direct results of seed germination. It is therefore pertinent to this time and place to get all the information possible, bearing upon the causes of failure so frequent in seed germination, which is the active principle of reproduction. In fact, the vital cause of plant growth is buried, or hidden in the seed or bud, to be developed when it may be required to act in harmony with other creations, the union of which forms the chain of creation.

While it is the seed that the seedsman is more particularly interested in, we wish to call your attention to the fact that the bud of a tree has in it

the same principle and power of reproduction as the seed, and that the tree is not an individual plant or growth, but a community of individuals having a common interest in the tree, its home. When the year's growth is completed, and the leaves, crimson and gold, drop into their graves, the parent bud, like the grain of wheat, has completed its work and new buds are formed, the parents of future generations. Thus is the tree's life predestined.

That reproduction in which such seeds as are common to the trade, however, is the topic of the hour, and the only one to which reference will be made, and the remark regarding the relation between seed and bud was only by way of analogy.

In order that seeds should retain their vitality for the longest period possible, it is of the utmost importance they should have attained perfect maturity before the harvest, and that every possible precaution should be taken to preserve vitality by keeping the seeds in perfectly dry, cool and well-ventilated rooms. Neither heat nor cold will materially weaken the power of germination in most seeds, particularly those of any oily nature, as long as they are kept dry. It is moisture that excites germination, hence the importance of keeping all seeds in dry rooms, well ventilated.

Seed which has not reached maturity may, if it is true, possess the power of germinating, for one season, but it always retains a disposition to disease and weakness. It is true, it may overcome this lack of vitality by a coincidence of favorable auspices, and by a soil and temperature peculiarly adapted to the nature of the plant; and, that imperfect seeds do occasionally produce vigorous and healthy plants; but there is always great danger of the crops failing. To that end, it is far better to carry as small a stock of seed, which has been grown under unfavorable circumstances, as possible, and the best possible investment to carry a sufficient stock, for two or more years, of seeds grown when all the conditions of growth were the most favorable.

The seeds of most vegetables keep good for a considerable period. I have not been able to perceive any deterioration in the seeds of any of the Brassica family, even when eight or ten years old, providing they are fully ripened, and kept dry and cool; while others, on the contrary, lose vitality quickly, and can hardly retain it for a year.

But the question propounded to me was supposed to be why seeds, known to be of high vitality, fail to grow, and that is the one we shall consider, and here may be seen the spirit of the context—Brains. Our observation shows most conclusively that in a majority of cases, failure in germination is directly due either to carelessness or a want of knowledge on the part of the farmer, gardener or florist.

One of the great mistakes made in the reproduction of any given vegetable form, consists in compounding the active principle of germination with growth, and the failure of the latter is almost invariably attributed to the farmer. Instances as common as the day have shown us where germination was most satisfactory, but the growth following was a close approach to total failure. These facts show conclusively that in the brain department of those most interested was a fearful vacuum.

Seed Beds.

The seed bed is the cradle in which the young plant is nourished, strengthened and prepared for its place in nature. Its importance is too well known to require a word regarding its necessity. But a few words pertaining to its preparation are essential, as success or failure in the production of many crops is almost wholly due to the conditions for the growth of the young plants being favorable or unfavorable.

Too much pains cannot be taken in the preparation of the seed bed, although many crops are injured beyond recovery by taking too much pains. The mistake comes from having the soil too rich for the young plants' power of assimilation. As well might the young mother feed her sucking babe beefsteak as to give the young plant highly concentrated food until after the seed-leaves (cotyledons), which are the young plants' true mother, have exhausted their supply.

The seed bed is the mother of the garden, and, in its preparation, no pains should be spared. Whatever the character of the soil may be, it should be made as fine as the finest of sand, and in an open, airy part of the garden or farm, far from the hedge-rows, where rodents and insects abound.

If, at the time of sowing, the ground is dry, it should be thoroughly rolled and made as fine as possible. After sowing, go over the rows with a roller to press the earth firmly around the seeds. If a roller is not at hand, go over the ground with the feet, which is the better, because the most convenient, plan for small sowings. It is always better to sow the seed when the ground is dry, because it will pack too hard if rolled, or tread when wet.

The general impression is that a seed must grow if planted, no matter when, how or where. Life in the seed form is persistent and will manifest itself under great difficulties, but it cannot surmount all obstacles that oppose it. There are many reasons why seeds fail to germinate, or to grow after germinating; these are but little understood, and because they are not, failures are frequent, and the loss is attributed to poor seed when it should be charged to a want of knowledge of the requirements of plant life.

(To be continued)

NURSERY DEPARTMENT.

Conducted by Joseph Meehan.

AMERICAN ASSOCIATION OF NURSERYMEN.

E. Albertson, Bridgeport, Ind., president; Orlando Harrison, Berlin, Md., vice-president; George C. Seager, Rochester, N. Y., secretary; C. L. Yates, Rochester, N. Y., treasurer.

THE AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS, formerly the New England Association of Park Superintendents, will hold its eighth annual convention at Buffalo, N. Y., June 28, 29 and 30, 1905, the first meeting since the change of name and broadening of scope of the organization. Headquarters will be at the Lenox Hotel, North street. An interesting and enjoyable program has been prepared, including trips through the Buffalo park system, Niagara Falls reservation, the Queen Victoria Park on the Canadian side, the Buffalo Botanical Gardens, etc. On Saturday, July 1 (in the program the date is given June 31, and so printed by one or two of our contemporaries!), if desired, the parks of Rochester, N. Y., will be visited by the delegates.

Peterson's Peonies.

Our illustration shows a field of peony Model of Perfection, and others, at the Peterson Nurseries, Chicago, Ill. This variety has a very fine pink color,

relied on, we subjoin an extract from a West Indian agricultural paper concerning a "Supple Jack" of Barbados:

"This is a climbing shrub, the stems of which were used as switches and riding whips. Formerly, it was, no doubt, common, but at present it is confined to comparatively few localities. A specimen in fruit was received a few days ago from Miss Burton, of Staple Grove, Christ Church. This was loaded with dense clusters of bright-red capsules, and presented a very attractive appearance. We commend the Barbados supple jack (*Paullinia barbadensis*) as an interesting ornamental climber for verandas and trellis work. It appears to be found nowhere else except at Barbados."

If this goes on, "Supple Jack" will be as confusing as the Wahoo now is, as the latter is applied to an elm, a eunymus and dear knows what besides.

Good Soil for Heaths.

Because the heather and other heaths are often found growing in bleak places and on hills scantily clothed with vegetation, it has led to the belief, often heard expressed, that they thrive in poor, dry, sandy soil. That they exist in such situations at times is true, but this is different from thriving in them. Then, too, the tops of hills are not often bare of good soil. It may be thin, but if vegetation of any kind grows there, a soil accumulates in time, of slight depth, but sufficient to supply the needs of such shallow rooting plants as heaths. As to the common Scotch heather, *Calluna vulgaris*, I have seen it growing on the plains of England as well as on the hills, and the plants there were of fine growth, thrifty and strong.

Heaths are not alone in approving of good food for

adopt the plan of rooting the young runners under glass, there being runners enough and to spare. It is a great labor-saver.

Rhus Succedanea

The Japanese have given us lots of beautiful trees and shrubs, but if this rhus is poisonous, as Professor Bailey says it is, and as it has all the earmarks of being, we can get along without it. A large specimen of it, flowering here now, closely resembles in appearance the *Rhus venenata* of our swamps, known as the most poisonous of all the poisonous ones, though how it can be worse than the common poison vine, *Rhus radicans*, it is hard to conceive. These poisonous rhus are a puzzle to many. There are degrees of susceptibility in persons. Some—myself, for one—are poisoned by the lightest touch of a leaf; others take poison less readily, and there are still others who can handle the vine without harm. So far as I know, the three poisonous rhus are *radicans*, *venenata* and this Japanese one, *succedanea*. If what Professor Bailey says of the latter is correct. The ones common in cultivation, *cotinus*, *aromatica*, *glabra*, *typhina*, *copallina* and *Osbeckii*, are quite harmless. *R. succedanea* flowers with the perfecting of its leaves, in early June. The panicles are not in a close head, like those of the *glabra* and *typhina*, but are spread out between the new leaves, a spray here and one there from the axils of the leaves, forming an extremely loose-looking panicle, and of no beauty. I do not think we want this poisonous fellow.

Pterostyrax Hispidum.

Those who do not stock up on the *Pterostyrax hispidum* will surely miss it when its merits become more widely known. Without question it is a tree that everyone will want who has room for a few trees. It will take its introduction into gardens here and there that those in different parts of the country may see it in flower before its popularity is assured. It is just going out of flower at this writing, June 10. As mentioned in previous references to it, the flowers are like racemes of white wistarias; not quite as many inches in length as those of the wistaria. The leaves are almost as large as one's hand, and the tree a fine spreading one, giving a good view of its flowers. It will make a nice shade tree, having the habit of a Norway maple to some extent. The tree blooms and seeds freely, so that when it commences to flower, which it does in about six years from seed, its propagation is easy, as the seeds are found to germinate freely.

A tree should be obtained and set out in a conspicuous place where it will grow freely and without restrictions. As soon as it flowers, orders for it will come in; and with the seed to start with, there should soon be a good supply of young trees.

Peach Yellows.

The question whether peach stones from peach trees suspected of having the yellows are safe to sow for stocks has been asked more than once. I can but say that I would not advise the use of such stones. It is generally conceded that the yellows is of fungous origin, and it seems highly probable that seeds from such trees would not produce healthy seedlings. In fact, nurserymen go to a great deal of trouble to procure stones for the raising of seedlings, getting them from districts where no yellows is known to exist, even to sending to the mountain districts of Tennessee, where orchards of natural trees are known to be.

The yellows is so much to be feared in an orchard that too great pains to secure clean stock cannot be taken. The disease may be suspected when the fruit on a tree ripens before its time, and red spots, extending to the pit, are on the fruit. Then, when the next season arrives, the growth on the limbs comes out in clusters, thin shoots and many of them, which bear small, yellow-colored leaves. In two or three years the tree is dead. But they should not be left for three or four years. When the clusters of thin shoots appear, there need be no hesitation in rooting out the trees. Take them out as quickly as possible and burn them, root and branch, for the disease spreads from tree to tree, destroying whole orchards if not attended to.

The yellows is such a troublesome disease that every care is called for that it be not introduced into blocks of trees, either in the way of seedlings from suspicious stones or in any other form.

JOSEPH MEEHAN.

Handsome Flowering Thorns.

Editor Florists' Exchange:

I heartily endorse Mr. Meehan's article on "Handsome Flowered Thorns," in your issue of June 17. I don't think there is any shrub in the months of May and June more beautiful than the hawthorn. I planted *Crataegus candida pleno* (double white flowering) and *Crataegus coccinea fl. pl. Paullii* (crimson) twelve years ago. They are now about eighteen feet high and about sixteen feet in diameter. They are planted between two white elms (*Ulmus americana*) and are shaded from about 10 o'clock in the morning until 3 o'clock in the afternoon. They apparently do better when partly shaded, and the flowers also last longer. Another private place, just opposite, planted a half dozen about five years ago, in the full sun, and they do not seem to do nearly as well as ours. B.



FIELD OF PEONIES AT PETERSON'S NURSERIES, CHICAGO MODELE DE PERFECTION IN FOREGROUND.

elegant form and is an excellent keeper. It is a first-rate market sort, coming into bloom a little later than *Festiva maxima*.

A visit to these nurseries in the peony season is a great treat, and hundreds of persons daily take advantage of it. A very large collection of peonies is grown here, the fine, large blooms obtained being the result of planting in rich, well-tilled ground. Many seedlings are raised, some of which are exceedingly promising, but nothing, either standard or new, is retained unless it possesses superior qualities. Other good sorts noticed at the time of our visit were *Festiva maxima*, *Edulis superba*, *Mme. Dupont*, *Golden Harvest*, etc.

Mr. Peterson was a large exhibitor at the annual show of the American Peony Society, held in Chicago last week, capturing several premiums.

Supple Jack.

The "Supple Jack" of our country is the *Berchemia volubilis*, a vine belonging to the rhamnaceae, which, though a native of the Southern States, is hardy at Philadelphia. The stems are very supple and tough, climbing 10 to 20 feet, and clothed with bright shining leaves.

As showing how little common names are to be

rooting in, notwithstanding they may grow in poor soil. Ferns, for instance, though growing on rocks, or where hardly any soil is to be seen, are improved in appearance by being given good soil, even to weak manure water.

There is no disputing that heaths are sometimes found in poor soil, but it must not be inferred that this is from preference.

Strawberry Runners.

When a strawberry is of a new kind and every plant that can be increased from it is an object, there is an excuse for placing pots around it, sunk into the ground, to receive the runners as they grow. But when plants are plentiful, and the saving of every one is not our object, it is much more satisfactory to cut off a number of young runners, trim away part of their leaves, pot them and place them in a close, shaded frame for a few days. It takes but a week or so for them to root, and then the plants are ready, with less than half the trouble the plunging of the pots around the parent plants entails. With new or scarce kinds, this plan would not answer, as, when in the open ground, a runner makes two, three or four plants, which would all be lost but one were the indoor propagating adopted. In the case of ordinary strawberries, many of those who propagate the plants

American Association of Nurserymen.

(Continuation of Report).

H. W. Stringfellow, of Texas, addressed the meeting on the subject of his theory of root pruning known as the "Stringfellow Method," illustrating his manner of pruning a peach tree by whittling off all lateral roots, cutting off the tap root so as to leave about six inches, and cutting down the top to within eight inches above ground.

Professor John Craig, of Cornell University, read a paper entitled "Quality vs. Quantity," giving it as his opinion that the demand for high-grade fruit products will strengthen as luxury and culture progress, and efforts should be made toward obtaining highest excellence in texture and aroma of fruits.

The president appointed a committee, consisting of Messrs. Thomas B. Meehan, C. L. Watrous and Harlan P. Kelsey, to meet with the American Seed Trade Association and the Society of American Florists to confer regarding express, freight and postal matters; they were also given power to act in regard to commissions paid to private gardeners—a custom which has grown up among eastern dealers, and which should be condemned.

Willet M. Hays, of the U. S. Department of Agriculture, gave an illustrated talk on how varieties can be improved so as to produce a greater yield of field and orchard products.

Thos. B. Meehan contributed a paper on "Office Management." Wm. P. Stark, of Missouri, gave a paper on "The Fruit Exhibit at the World's Fair." George G. Hedgcock, U. S. Department of Agriculture, delivered a lecture, illustrated by stereopticon views, on "Crown Gall and Root Knot," and James McHutchinson, New York, contributed a paper on "The Evolution of Importing."

The following officers were elected for the ensuing year: President, E. Albertson, Bridgeport, Ind.; vice president, Orlando Harrison, Berlin, Md.; secretary, Geo. C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y. Executive committee: Thos. B. Meehan, Pennsylvania; Theo. J. Smith, New York; J. H. Dayton, Ohio.

Dallas, Texas, was chosen as the next meeting place. West Baden, Ind. E. J.

Entertainment.

On Tuesday evening, June 13, a large ball was given by the Hon. Thomas Taggart at the French Lick Springs Hotel. The occasion was a very enjoyable one, large shipments of fruit which had been previously sent in were liberally dispensed, and there was a profusion of flowers from different sections of the country adorning the banquet tables and ballroom. A smoker was also given for the members after the dance.

On Friday evening, June 16, the banquet took place, when choice fruits and wines, contributed by members of the organization, and other edibles and liquids were partaken of. J. H. Hale acted as toastmaster.

On Saturday, June 17, some of the members visited the Mammoth Cave, Kentucky.

Much credit is due to Harlan P. Kelsey, of Boston, chairman of the committee on arrangements, and his fellow-workers, for the admirable and smooth running manner in which the program was carried out.

President-Elect E. Albertson.

The president-elect of the American Association of Nurserymen, Emory Albertson, of Bridgeport, Marion County, Ind., is the son of Oliver Albertson, who established, in 1845, the first nursery in Washington County, in that State, that is still in existence. The young man remained at the old homestead until 1875, when he removed to his present location, starting in the nursery business with about five acres. Soon after he was joined by Mr. Hobbs, and the present firm of Albertson & Hobbs formed. The establishment now embraces over 300 acres, being the largest as also the oldest in Indiana. Some 80 men are employed during the packing season.

Mr. Albertson has always taken an active part in the work of the American Association of Nurserymen and has served on several of its important committees. It was chiefly through his instrumentality that the organization selected West Baden, Ind., as its meeting place this year. He is an energetic worker, throwing his whole soul into whatever he undertakes, and during his term of office the business of the association will be well looked after.

Vice-Pres.-Elect Orlando Harrison.

The vice president-elect of the association, Orlando Harrison, is a member of the large nursery firm of J. G. Harrison & Sons, Berlin, Md. He, too, is a hard worker in the interests of the national organization, as well as those of other horticultural bodies, having been president of the Peninsula Horticultural Society.

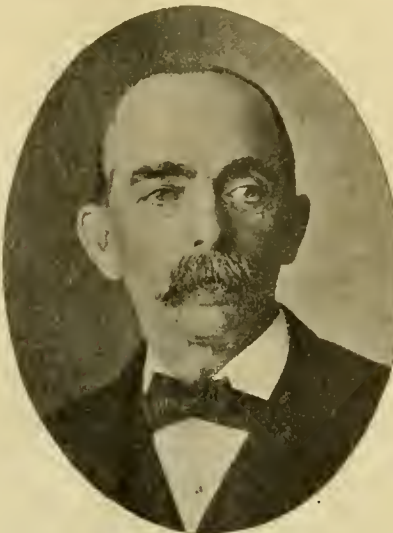
Treasurer Yates and Secretary Seager, both re-elected, are well known in nursery circles, and their election to their respective offices testifies to the high esteem in which they are held by the craft, as well as to the efficient manner in which their several duties are performed.

The Price of Nursery Stock.

(Paper read by Chas. J. Maloy, of Ellwanger & Barry, Rochester, N. Y., before the American Association of Nurserymen.)

I have been assigned the topic, "The Low Price of Ornamental Stock." I would like to make it broader and entitle it, "The Low Prices of Nursery Stock in General."

I wonder if nurserymen ever stop to consider what they receive for the labor and expense incurred in



E. ALBERTSON
President-Elect American Association of Nurserymen

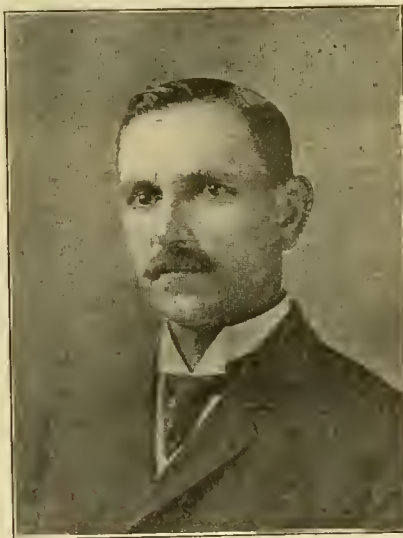
growing their stock; whether an actual profit is made, and, if so, are they satisfied with the results of their labors?

I think the majority of us, about this time of year, are apt to look back on the season's business just closed and ask ourselves the question why it is that we have sold our goods at such low prices? As a general rule, most nurserymen find themselves short of many staple varieties before the season is over. This leads us to believe that very much higher prices might have been obtained if we but had the courage to ask them. It would seem that there is the constant fear of losing an order, and the determination to secure it at whatever cost and at any price.

I am sure that in many instances, goods are sold at much less than it costs to produce them. Why then the necessity for this ruinous competition, because ruinous it certainly is, as all will agree who have been engaged in it?

I believe the nurserymen can get a reasonable price for his stock if he will ask it.

What would be the result if the nurserymen of this country were to limit their plantings, so that there would be only a certain amount of salable stock to offer each season, and in addition to this establish a



ORLANDO HARRISON
Vice-President-Elect American Association of Nurserymen

fair, uniform price? Would people buy even if required to pay a dollar apiece for trees, and fifty cents for shrubs? I think they would, and consider them cheap at that, for what does the average person know about the price of nursery stock or what it costs to grow it? When you think of it, a dollar means very little to ask for a tree when you have spent at least two years in growing it; taking your chances of drouth, frost, hail, insects; with no in-

surance for loss of your stock from any of these disasters. Look at the length of time it takes to grow a good Norway maple, or a fine American elm—at least five years—and then be obliged to sell it for 25 or 30 cents. Then, too, the cost of growing has increased. Higher wages are demanded with shorter hours for labor; land rentals have advanced; the land requires to be underdrained and manured. With all this additional expense, we are called upon to sell our trees at lower prices than ever before, and with hardly any regard for a standard of value, the idea with many nurserymen being to sell the stock for whatever they can get without regard to a market price.

One of the principal reasons for low prices is the tendency to overplant, creating a surplus which must be moved, always to the detriment of the following year's business. In making up planting lists, care should be taken to provide for the things for which there is likely to be a demand; not to plunge as some do on some one article, without regard as to whether there will be a market for it when grown. All do not have a demand for the same thing, or in the same quantity. I will cite an example which came under my notice a few years ago. A small nurseryman near us planted 15,000 birch stocks and budded them all to cut-leaved. He had splendid success with his budding, as nearly all grew, and were as fine a lot of trees as you would wish to see, but when they were ready for sale there was no market for them. Every one else had them; the market was glutted. He could not get 8 cents for handsome trees 6 to 7 and 8 feet high. He made the mistake of planting too heavily in a falling market, and very many more than his trade demanded.

Another reason for the present low prices is the keen competition which I think exists to a greater degree in the nursery business than in any other. Our experience has been that this competition is not a healthy one, and I know of others who feel the same. We must, of course, expect competition in whatever business we engage, but a business cannot live when goods are constantly being sold at less than what it costs to produce them.

To establish and maintain higher prices is something which I am not prepared to say can be accomplished at present; it seems to me that now is an opportune time for the nurserymen of this country to adopt some plan whereby they may arrive at the desired result.

In order to ask a higher price for your goods you must give your patrons a good article; you must grow your trees well, dig and grade them, and pack them well; and, by all means, sell them what they buy, that is, true to name. By doing this you will acquire a reputation; your customers will be pleased and have confidence in you, and will return to you year after year.

You all know that the nursery business is, or has been, with many people the synonym for all that is dishonest. And why? Because of the dishonest practices of so many who have taken advantage of their patrons and sold them stock which has proved worthless after waiting years for it to come into bearing! Nurserymen and jobbers, or dealers, who have practiced this have all come to grief, but they have left a stain which is not easily eradicated. It is only another instance of the "survival of the fittest," and so it shall always be.

Why not assert ourselves and demand what we should justly receive for our labors?

The nursery business is not one easily learned. A man may devote his life time to it and always find something to learn. There are not many who will engage in it, as it requires considerable capital and experience. I mean in the actual growing of the stock.

People in all ages and in all climes have demanded trees, shrubs and plants, and will continue to demand them, no matter what they may cost.

Rose Show at Orange, N. J.

The annual rose show of the New Jersey Floricultural Society took place on Wednesday, June 14, in the society's rooms in Orange. The exhibits were tastefully arranged under the direction of President D. Kindsgrab. Two classes were provided—for best 24 roses, in six varieties, and for best 12 roses, in three varieties. The first prize in each instance was won by D. Kindsgrab, gardener to William Runkle, Esq., with Countess of Oxford, Alfred Colomb, Margaret Dickson, Fisher Holmes, John Hopper, General Jacqueminot, Ulrich Brunner, Mrs. John Laing and Mme. Gabriel Luizet. The second by Peter Duff, gardener to John Crosby Brown, Esq., with Countess of Oxford, Mrs. R. G. Sharman-Crawford, Prince Camille de Rohan, Captain Hayward, Baroness Rothschild, Ulrich Brunner, Mme. Caroline Testout, Alfred Colomb and Mrs. John Laing.

Among those entered, not for competition, and rewarded with certificates, were: Treadwell Cleveland, Esq., Roland Ruddoch, gardener, for nine vases of roses, eleven varieties, delphiniums, sweet williams, first class certificate. O. D. Munn, Esq., John Hayes, gardener, three vases of moss roses, certificate and highly commended. A. C. Van Gaasbeck, Esq., William Bennett, gardener, vase of rose Mme. Caroline Testout, and vase of mixed carnations, certificate, highly commended. Messrs. Sidney and Austin Colgate, William Reid, gardener, vase of mixed carnations and two vases of roses, certificate of merit. Mr. Stewart Hartshorne, Arthur T. Caparn, gardener, vase of white iris, a first class certificate; vase of delphiniums, certificate of merit, and cherries and strawberries. The judges were Malcolm MacRorie, Arthur T. Caparn and John Rolley, superintendent of Prospect Park, Brooklyn. The show was open free to the public. J. B. D.

CLUB AND SOCIETY DOINGS

THE MORRIS COUNTY (N. J.) GARDENERS AND FLORISTS' SOCIETY.—The June meeting of the society was held in the rooms, Madison, on the 14th. It was well attended. The monthly exhibit of flowers, fruits and vegetables was of a high order. A Herrington showed three vases of roses, two of sweet william, two of sweet peas and a magnificent collection of digitalis, securing a certificate of merit. J. Heeremans, gardener to A. R. Whitney, Esq., exhibited a fine dish of Gradus peas and a dish of strawberries of Sharpless type, but more rounded, large and thoroughly colored. A culture certificate was worthily awarded; Robert McMullen, gardener to Mrs. G. F. Stone, staged a grand collection of hybrid roses, and a vase of each of the crimson, white and yellow Rambler. A culture certificate was awarded. Messrs. Duckham, Totty and Vince acted as judges.

President Heeremans, by request, read his paper on the culture of the herbaceous calceolaria. It was well received; questions were asked and answered. A hearty vote of thanks was accorded the author. Three new members were elected. The new schedule for our Fall flower show was in evidence. Nearly \$500 are slated in the prize list, which is considerably in advance of last year. There will be no meeting in July and August, which will give the boys time to grow the stuff to get the money. E. R.

P. S.—The flowers went to the hospitals, but Totty took the peas and strawberries.

society has voted that a committee of its own members award the prizes, and the following prominent head gardeners have been selected: Andrew J. Pow, John P. Hammond and Paul Volquardsen. William G. Postings is chairman of the committee of arrangements, and the president and vice-presidents constitute a reception committee. Schedules and other information have been published for general distribution. F. W.

BOSTON GARDENERS' AND FLORISTS' CLUB.

The last meeting of the season was one of the best attended in the history of this organization. About seventy members were present, all of the officers being in their respective positions. After the regular business routine in opening the meeting it was voted to dispense with the business of the evening until after the lecture; consequently President Wheeler introduced the speaker, M. H. Walsh, of Woods Hole, who gave a very interesting paper on roses, which called forth a lengthy discussion on the different methods of propagation, the hardness of certain varieties, the best insect preventives and kindred subjects. On the exhibition tables were a fine display of cut roses and a pot of Lady Gay from M. H. Walsh; cut roses from J. O. Kristenson, gardener to Mr. W. J. Clemson, Spanish lilies and aquilegias from W. N. Craig, North Easton; aquilgias and peonies from R. & J. Farquhar & Co., and seedling roses from F. J. Rea and The Boston Park Department. Votes of thanks were passed to the exhibitors.

Nine new members were elected and the high water-

which time arrangements were made for the Fall meeting in Boston. At 5.30 a start was made for an automobile ride around the city, and through the parks. On invitation of President Huss the first stop was made at his place. Mr. Huss received many compliments for the way in which his grounds were kept. The next place visited was Pope Park, then Goodwin Park, ending up with Bushnell Park. As the time was limited the visit to Keney and Riverside parks had to be abandoned. The automobile ride was very successful, nothing happening to mar the pleasure of the trip, excepting near the finish when one of the tires on one of the automobiles blew up; luckily it happened directly in front of The Heublein Hotel. A new tire was immediately put on and during the operation the whole party went into the hotel. Some thought the tire was put on in a remarkably short time, others that it did not take half long enough. The latter were not sitting in the parlor. The party then preceded to the Hartford Club where the banquet took place. Preceding the banquet a reception was held in the library on the top floor, where the members of the club, who were not able to be present during the afternoon, had the opportunity of meeting their guests. Shortly after eight o'clock the party went down to the banquet rooms which were decorated for the occasion on a magnificent scale, the most elaborate ever seen at the palatial Hartford Club. Roses predominated, and they were arranged in splendid profusion, all around the banquet chambers where flowers could be placed. At either end of the long tables miniature mountains of the queen of flowers were artistically arranged, and festoons of smilax suspended from the ceiling, swinging gracefully across the rooms. On the wall near the head of the table, were hung in bold floral letters, H. F. C. (Hartford Florists' Club) while at the opposite end were the characters, A. R. S. (American Rose Society.) The table decorations were prettily enhanced by the skilful introduction of tiny electric lights arranged all over the tables among the flowers, creating a beautiful effect. In the corners of the rooms, and near the doors, fine groups of specimen palms and other foliage plants were effectively arranged en masse, giving the finishing touch to a rare exhibition of the florists' skill. Altogether the floral display was superb and the committee on decorations, which was composed of P. Zuger, J. F. Coombs and F. Roulier, received unstinted praise for their splendid work.

After the viands and liquids had been partaken of, and cigars were lighted, President Huss welcomed the visiting guests and introduced A. C. Sternberg as toastmaster for the evening. The toastmaster first called upon President Alex. Montgomery, who complimented the rose garden at Elizabeth Park. He said it was a garden that any city might well be proud of. In closing, he thanked the members of the Hartford Florists' Club for the way he had been entertained.

Secretary W. J. Stewart was next introduced. He told of some amusing incidents in connection with the office of secretary. He congratulated Hartford on having such a rose garden; he thought there should be no further doubt that roses could be grown in this country. At the opposite end of the table, where the letters "A. R. S." were on the wall, he said the men seated there were very appropriately placed, as they were "All Round Sports," as the letters indicated.

F. R. Pierson was introduced as the "million dollar" florist. He said he was delighted to have the opportunity to visit Hartford. He had no idea that such a rose garden as he had seen to-day existed in the United States. He thought Elizabeth Park was the handsomest he had ever seen.

Robert Simpson was next called on. He said he felt more than repaid for coming to Hartford. He wished he might have a rose garden of his own, just as good as he had seen to-day, but did not think it possible. He referred to the grounds of President Huss as "The Garden of Eden."

The toastmaster next introduced A. Farenwald as the "Liberty man," who always took the medals for Liberty roses wherever they were exhibited. Mr. Farenwald said he was pleased to be with the Florists' Club on this occasion. He appealed to the members of the club to join the Rose Society. He thought it would be a great benefit to us all. He did not know of any society in the East that could furnish better material for membership than the Hartford Florists' Club.

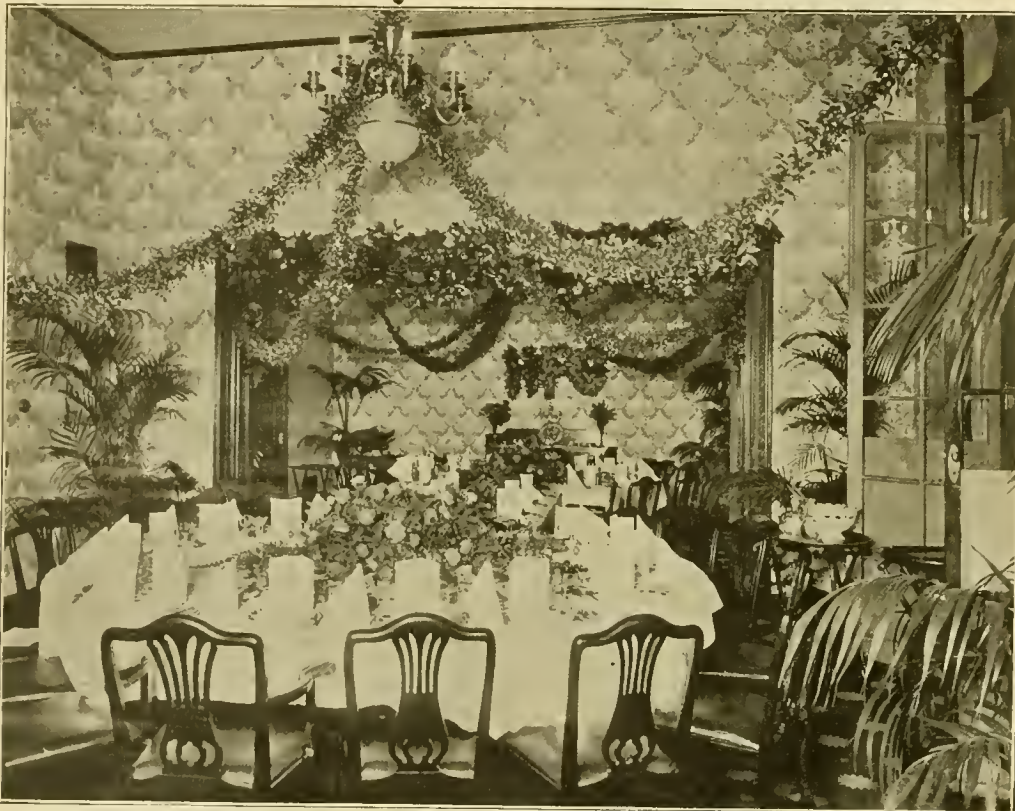
Robert Montgomery, the next speaker, said the rose gardens at Elizabeth Park were worth coming miles to see. He was very grateful to the club for the entertainment furnished.

R. D. Dean, of New York, was next called on, followed by Vice-President J. F. Coombs, who said he was pleased to have the executive board of the A. R. S. as guests of the club, and regretted his inability to be with them during the visit to the rose gardens and on the automobile ride.

Park Superintendent Wirth was greeted with "He's a Jolly Good Fellow." He said he was pleased that the officers of the American Rose Society could meet in Hartford. He told how the rose gardens were started at Elizabeth Park, about six years ago, with about thirty varieties; they kept adding from year to year, and the more they added brought larger crowds to the park. Much credit was due to the Board of Park Commissioners, as they coincided with whatever Mr. Wirth suggested. He said he had heard it called the best rose garden in the Eastern States. He thought every park system should have a rose garden, as it helped to educate the people, and was of benefit to the commercial florists.

Other speakers were Robert Scrivener, superintendent of Cedar Hill Cemetery; Hugh Chesney, of Farmington, Conn.; J. Vildbourn and C. U. Pohn.

At the close of the banquet President Alex. Montgomery, on behalf of the Rose Society, thanked the members of the home club for the way in which the executive board was entertained. J. F. COOMBS.



DECORATIONS OF BANQUET ROOM AND TABLE FOR DINNER

Given to Executive Board of American Rose Society by Hartford (Conn.) Florists' Club at the Hartford Club, June 19, 1905. P. Zuger, J. F. Coombs and F. Roulier, Decorators

THE NEWPORT HORTICULTURAL SOCIETY at its regular June meeting attended to many important matters connected with its welfare. There was a good attendance. President Sullivan, as well as Vice-Presidents McLellan and Butterton, also Secretary McIntosh, were present. Action was taken on delinquent members as regards payment of dues. It appeared that some \$350 was due the society from this source, and a committee was appointed to collect, if possible, this money. Sixteen very delinquent members were dropped from the rolls. Dr. Alexander Anderson was elected an active member. The interest of the evening centered in the forthcoming rose and strawberry show, which takes place June 27, 28 and 29 in the Newport Casino. As it is a long time since a floral exhibition was held in the Casino, and as a large outlay is involved in this venture to give Newport still another fashionable function in the Summer season, every effort is being put forth to make this exhibition a grand success. That the Summer people themselves are interested in the society's work is evidenced by the following special prizes which were announced by the secretary: Miss Alice Keteitas, for gateway decoration, offers a silver cup, value \$50; A. G. Vanderbilt gives \$25 for the best group of palms and foliage plants; William Watts Sherman offers \$25 for the best group of palms, ferns and flowering plants; for decorative foliage plants suitable for a table, Mrs. Perry Belmont offers a silver cup. These and the very liberal prizes offered by the society, together with all the hard work that has been done, ought to insure a splendid exhibition next week. The mark of 200 is likely to be reached ere the end of the

mark of 200 is likely to be reached ere the end of the year.

The entertainment committee had rather a surprise for many of the members in a nice layout, in which the luscious strawberry played a prominent part.

It was announced that the date of the outing at Wm. Sim's place, Cliftondale, had been changed to July 1, and that the date of the picnic had been fixed for July 25. A good attendance is looked for at each of these outings.

Then next meeting of the club will be held September 19. J. W. DUNCAN.

American Rose Society Officers at Hartford, Conn.

The June meeting of the executive board of the American Rose Society was held in Hartford, Conn., Monday, June 19. During their stay the visitors were entertained by the Hartford Florists' Club. The officers present were President Alex. Montgomery, of Natick; and Secretary W. J. Stewart, of Boston, Mass. H. A. Siebrecht, New Rochelle, N. Y.; and Robt. Simpson, Clifton, N. J. The club also had as their guests, Robert Montgomery, Natick, Mass.; A. Farenwald, Hillside, Pa.; F. R. Pierson, Tarrytown, N. Y.; and A. Hans, Stamford, Conn.

The visitors arrived about noon and were met at the railroad station by a committee from the Florists' Club. They were at once taken to Elizabeth Park where a substantial lunch was partaken of, after which two hours were spent in viewing the rose gardens at the Park. At 3.30 p. m., the visitors went into executive session in Superintendent Wirth's office, at

SUMMER SHOWS.

Peony Show at Boston.

The annual peony show of the Massachusetts Horticultural Society, which was held on Saturday, June 17, contained the best collection and was by far the largest exhibition of its kind ever held in Boston. Formerly the lecture hall has provided ample room for this show, but this year the entire floor of the main hall was completely filled. There were a few other exhibits besides peonies, notably a collection of 100 bottles of rhododendrons, from T. D. Hatfield, gardener to Walter Hunnewell, Esq.; a collection of herbaceous perennials from the Blue Hills Nurseries, and a collection of trees and shrubs from W. Heustis & Son.

Among the peonies very noticeable were the large vases containing a lot of blooms arranged for effect. Wm. Thatcher was first in this class, The Blue Hills Nurseries second, and E. L. Lewis third. The H. A. Stevens Co., secured the Kelway Silver Gilt Medal, and Miss M. A. Means the bronze medal. T. C. Thurlow, of West Newbury, was first for the collection of thirty varieties, for the specimen bloom and for the collection of single flowered sorts. Other winners in the prize classes were O. B. Hadwen, Dr. C. S. Minot, George Hollis.

T. C. Thurlow had a very fine display, including many fine varieties. E. J. Shaylor, of Wellesley Hills, had a large exhibit of many different varieties and was awarded a first-class certificate for the varieties Germain Bigot and Mme. Theyerau, and an honorable mention for the variety M. Martin Cahuzac. T. C. Thurlow received a first-class certificate for the variety White Lady. R. & J. Farquhar & Co. made a display of *Festiva maxima*, of which they make a specialty. Wm. Nicholson exhibited three vases of the variety Lady Bramwell which is of a very distinct pink shade. A very fine variety was Charles Sedgwick Minot, of which a large vase was noticed in the collection of Dr. Minot. Owing to the holiday, (Bunker Hill Day) the attendance was not so large as expected; but the quality and quantity of the flowers in the hall showed that the peony is every year gaining in popularity. J. W. DUNCAN.

We have been favored with a copy of Mr. Walsh's excellent paper on "Rose Growing," which is unavoidably held over till next week.—Ed.

Monmouth County (N. J.) Horticultural Society.

On account of the rose show, this society held only a short business meeting on Friday, June 16. The president announced the semi-monthly meetings closed for the season, and that regular meetings will be held on the first Friday of each month.

The rose show was a great success. The hall was filled to overflowing with roses. It was a little too early for sweet peas, but several very nice vases of them were shown. The prizes were distributed as follows:

Collection of hybrid teas, Hale, Butterbach; collection of hybrids, Hale, Kettel; twelve varieties hybrids, Wm. Dowlen, Hale; six varieties of teas, Butterbach; collection of sweet peas, Hale, W. W. Kennedy; vase of sweet peas, James Kennedy, H. A. Kettel; collection of strawberries, Hale, Wm. Dowlen; three varieties strawberries, Hale, Brunton. Certificates were awarded as follows: Wm. Dowlen, for collection of poppies; James Kennedy, for collection of vegetables; Longstreet and Butterbach, for roses; James Dowlen for cauliflower; Strohmenger, for collection of lettuce; Wm. Turner, for general display of hardy flowers and for collection of carnations; James Dowlen, for display of rose seedlings; Hale and Butterbach each for collection of digitalis; Hale for poppies; Kettel for mignonette.

The display of fruit and vegetables was the finest ever exhibited in these parts. Some one suggested auctioning off his exhibits for the benefit of the society. I will quote a few of the prices received for the goods. Some of the strawberries brought \$1.10 per plate; the lowest sold at 60c. per plate. Some of the lettuce brought 35c. and 40c. per head; the lowest, 25c.; one head of Trianon Cos. brought 88c. Onions in bunches, three in a bunch, were sold at 25c. per bunch; digitalis, 75c.; sweet peas, 4c.; poppies, 35c.; sweet williams, 45c.; carnations, \$1.50 per vase. B.

Tarrytown (N. Y.) Rose Show.

The sixth annual June exhibition of the Tarrytown Horticultural Society was held in the Lyceum building on the 13th inst. In spite of the excessive dry season, the exhibits were quite up to the high standard of former years, which showed that the growers had been keeping the hose going pretty freely. The show was under the able management of David McFarlane and was very tastefully arranged. The attendance, always good, was even better than in former years, the hall being well filled in the afternoon and crowded in the evening. Following is a list of the principal prize winners: In the rose classes, Mrs. George Lewis (James Ballantyne, gardener.) won out for the best vase, for the best 25 blooms and for the best display of climbing roses. Mrs. J. B. Trevor (Howard Nichols, gardener.) for the best collection and for the best six varieties, six of each. For the best three varieties, six of each, the first prize was won by the

Misses Masters (Henry Kastbert, gardener.) and for the best 12 blooms any one variety, Mrs. Ogden Codman (Frank Luckenbacher, gardener.) was first.

In hardy perennials, Mr. Wm. Rockefeller (George Middleton, gardener.) was first, and Mrs. O. Codman second for the best collection. In strawberries, Mrs. Trevor was first for the best three quarts and the best quart, while Mr. Howard Willets (A. Weisenberger, gardener.) was first for the best two quarts.

Mr. Samuel Untermeyer (John Featherstone, gardener.) won out with a splendid collection of hardy shrubs. Mrs. George Lewis was first for a collection of sweet peas, and first for a collection of antirrhinums. Samuel Untermeyer exhibited a beautiful table of fancy-leaved caladiums, also a nice collection of greenhouse fruit, including grapes, peaches, nectarines, figs and melons. A fine vase of Spanish iris and a splendid vase of sweet peas were exhibited by Mrs. John H. Hall (Francis Gibson, gardener.) to which special prizes were awarded.

F. R. Pierson Co.'s exhibit, which added greatly to the beauty of the show, included shrubs and herbaceous plants, Marguerite, Queen Alexandra, new Rambler rose, Leuchtenstern, and their beautiful Tarrytown fern. WM. SCOTT.



FIELD OF PANSIES GROWN FOR SEED BY
PETER BROWN, LANCASTER, PA.

Annandale (N. Y.) Rose Show.

The Fourteenth Annandale Rose Show was held on the college grounds on June 14 and 15. The exhibition surpassed any of former years. For the best group of stove and greenhouse plants arranged for effect, Mr. J. J. Astor, Horace Deal, gardener, was awarded first prize; Hon. L. P. Morton, second. Mr. Archibald Rogers took first prize for a collection of vegetables, 24 varieties; Mr. Douglas Merrit, second. Mr. Rogers also took first for a collection of 12 varieties of vegetables; L. P. Morton, second. Warren Delano showed a nice clean collection of gooseberries consisting of three varieties, Triumph, Industry and Columbia. Miss Chandler, of Barrytown, took first for dish of strawberries, with Marshall. Miss Cruger was first for collection of three varieties of strawberries. Mr. Douglas Merrit, of Seacote, Rhinebeck, exhibited a very creditable lot of roses and peonies; Gordon Asher is the gardener and that gentleman deserves great credit for the fine collection of 24 varieties of vegetables put up, which had been grown in cold frames.

F. R. Pierson Co. showed two vases of Variegated Lawson, which, for the time of the year, were very fine. Weigela Eva Rathke was also on exhibition. Levi P. Morton took first for specimen flowering plant with *Hydrangea Hortensia*; also first for cauliflower. Archibald Rogers was first for a collection of herbaceous plants; L. P. Morton second. Warren Delano exhibited a fine collection of twelve varieties of sweet peas, and Miss Chandler a nice collection of poppies. Miss Cruger won the silver cup for 12 varieties of roses. For vase of Gabriel Luizet roses, Mr. Irving Grinnell was first; J. J. Astor, second. The prize for 24 varieties of roses on boards, 3 of each, was won by Archibald Rogers, Thomas Connors, gardener; that for 12 varieties of roses on boards, 3 of each, by Miss Catherine C. Cruger. The prize for 12 ferns was won by J. J. Astor; also for specimen fern. Mr. Thaddeus W. Bates, of Rhinebeck, exhibited over 50 varieties of roses; that gentleman possesses one of the best kept little places and has an admirable collection of roses. T. L. TALBOT.

Our London Letter.

BY A. HEMSLEY.

THE ROYAL HORTICULTURAL SOCIETY.—At the meeting on May 23 tulips were the great feature. The exhibits from trade growers were very numerous and good, but only a few specialists could admire the exhibits of the National Tulip Society. In these, some of the individual blooms may have been perfect, and also the markings in the striped varieties, but single blooms stuck up with the shortest bit of stem do not appeal to the present day ideas of what is beautiful, and it is quite time that these old-fashioned practices should be abolished. In the trade exhibits we had some remarkably fine Darwin varieties, also those of the Gesneriana type and other old kinds. Several of the newer varieties secured certificates of merit here, and also at the Royal Botanic the previous week. Among the new plants shown was *Clematis montana rubens*; this time the flowers were of a better shade of pink. A first-class certificate was given, the award of merit, previously recorded, not being considered a sufficient recognition of the merits of this new, hardy climbing plant. *Lobelia tenior rosea*, which came from Messrs. Veitch & Sons, gained an award of merit. It is of a pretty shade of pink, but hardly suitable for decorative purposes. Some interesting new species of primulas from Western China were also shown; these, as seen, would not be quite suitable for decorative purposes. Messrs. Sutton & Sons, Reading, had some showy varieties of *Primula japonica*, the colors varying from creamy white to deep crimson. These were a great attraction.

On the occasion of the Princess of Wales' birthday, which was celebrated on May 26, Marlborough House was loaded with flowers. The floral offerings sent to the Princess were numerous and varied. The pink Malmesbury carnation, which is named after Her Royal Highness, was sent in splendid blooms, on long stems. A large bouquet of May blossom was an appropriate offering. From America came a case of American Beauty roses packed in ice; these are said to have come out in good condition after crossing the Atlantic. *Clematis*, Rambler roses, lilies, violets and other choice flowers were among the offerings.

For staircase decorations the long Rambler roses are quite the thing; the crimson and Dorothy Perkins are the most appreciated, but others are also used.

THE MARKET.—Growers have suffered considerably from changes of weather. Frost has recurred several times, but the worst was on the early morning of May 23. Those who grow strawberries are the greatest sufferers, but much damage has also been done to flowers. Double white pyrethrums, which are extensively grown for Covent Garden Market, have been quite spoiled in some districts; one grower brought me buds and blooms which were quite black. His loss on this variety would be over £50, and a large grower close by will lose some hundreds of pounds. The cold spells have also stopped trade considerably, but now we seem past further trouble and trade is very brisk. No sensational prices are made, but most things move well at fair figures. The ivy-leaved pelargoniums are more than ever in demand, yet supplies are equal. They have long been used extensively for window boxes and, to some extent, for bedding, but lately they have been much more in demand for this purpose. And Galliee, the beautiful pink variety, is used extensively for decorations. At some of the most fashionable dinners and balls recently, large banks of this free flowering variety were employed. *Verbena* Miss Willmott becomes more and more a favorite, and is now grown by most market men. The plants seen have been a perfect mass of soft pink bloom. Pink and white are much used, both for decorations and bedding. White zonal pelargoniums sold badly last year, but this season they are much in demand, especially the single varieties. Albion is the favorite sort with most growers. Immense quantities of white marguerites are still used, yet some seem to be tiring of them and are looking for something fresh. For bedding they overgrow other things, and it is on this account that the white zonals are wanted. In scarlets Paul Crampel is one of the finest we have; the crimson, H. Jacoby, remains a favorite. In salmon, Mrs. H. Cannell now takes the place of the old favorite, Lady Chesterfield. The semi-double, King of Denmark, has a dangerous rival in Mrs. Lawrence, though some buyers are yet cautious in taking up with this. From all I have seen of it, I feel sure it has come to stay. I may add that this is a sport from *Herminie*, the best semi-double white we have. Mrs. Lawrence is a clear shade of salmon, and among the large numbers I have seen there has been no variation.

CHRYSANTHEMUM CORONARIUM.—The double and single varieties of this are now grown extensively for market, and to a great extent, take the place of the yellow marguerites, as they can be produced at a smaller cost. They go out at about 9s. per dozen, while good yellow marguerites cannot be bought for less than 18s. a dozen, and there is only a limited supply at this price. There has been a considerable slump in *Lilium longiflorum* since Easter, and prices have been very low. When we see large quantities in the baskets of street hawkers, we know things are bad. The supplies of roses have been well maintained, but growers have stood out for fair prices, and carnations, though over plentiful, have kept up in price; Malmesbury top the list, making 12s. per dozen blooms for best English grown. We get some from the Channel Islands, which are sold for less.

SALVIA SPLENDENS

Surplus 2 1/2 in. pots, \$1.75 per 100; \$15.00 per 1000. A GERATUM, Dwarf Blue, 2 1/2 in. pots, \$2.00 per 100. Cash with order.

WM. J. CHINNICK, Trenton, N. J.
Mention the Florists' Exchange when writing

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Hardy Azaleas, Box Trees, Clematis, Conifers, Hydrangeas, Peonies.

Pot-Grown Plants for Forcing.
RHODODENDRONS, H. P. ROSES, Etc.

Catalogue free on demand.
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FOR FALL, 1905

ROSES, strong, home-grown plants; H. P.'s and Ramblers.

CLEMATIS, Large Flowering and Paniculata. CLIMBING VINES, leading varieties.

ORNAMENTAL SHRUBS and TREES, fine assortment.

JACKSON & PERKINS CO. NEWARK, NEW YORK
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CELERY PLANTS

In Any Quantity

White and Pink Pluma, Glant Pascal. Golden Heart, Boston Market and other varieties, \$1.00 per 1000; \$8.50 per 10,000. Special price on lots of 100,000 and over.

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WEEHAWKEN HEIGHTS, N. J.

P. O. No. 1, Hoboken, N. J.

JUST RECEIVED FROM OUR HOLLAND NURSERIES

Rhododendrons, Azaleas, Spiræa Japonica, Lilium Speciosum, Peonies,

Bleeding Heart, Pot-Grown Lilacs, Hydrangea in sorts, Clematis and H. P.

Roses in the best sorts.

PRICES MODERATE
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TREES

Fruit Trees, Small Fruits, Ornamental Trees, Evergreens and Shrubs, Shade Trees, Hardy Roses, Hardy Plants, Climbers, etc. The most complete collections in this country.

Gold Medal—Paris—Pan-American—St. Louis. 102 prizes New York State Fair, 1904.

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Our Descriptive Catalogue of American Seeds and Plants is ready for mailing. Ask for it.

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SPRINGFIELD NEW JERSEY
Wholesale Growers TREES AND PLANTS in full assortment Trade Catalogue Free
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Marie Louise Violets

Strong plants, February and March struck, free from disease. Your money cheerfully refunded if not satisfactory. \$2.00 per 100; \$15.00 per 1000. Cash with order.

G. LAWRITZEN, Rhinebeck-on-Hudson, N. Y.
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Famous Hudson River Grown VIOLETS

Marie Louise, 2 1/2 in. pots, strong, healthy stock, \$3.00 per 100; \$25.00 per 1000. From sand, \$10.00 per 1000.

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EVERGREENS Large Assortment

Specialties—White Pine, Hemlock and Large Evergreens. Spring list for details.

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VISITORS INVITED.

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CALIFORNIA PRIVET

For Fall Delivery

I will have a full stock of well-grown plants, two years old. Also strong three-year plants, transplanted, stocky and well furnished. Orders can be placed now to an advantage.

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Holland Nursery Stock

Ask for Our Catalogue. It will interest you.

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EVERGREEN

An Immense Stock of both large and small sized EVERGREEN TREES in great variety; also EVERGREEN SHRUBS. CORRESPONDENCE SOLICITED.

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Vegetable Plants:

Can-flower (Early Snowball), \$2.50 per 1000.
Cabbage Plants, best varieties, \$1.00 per 1000.
Sweet Potato Plants, \$1.25 per 1000.
Tomatoes, Stone, Beauty, \$1.25 per 1000.

J. C. SCHMIDT CO., Bristol, Pa.
Mention the Florists' Exchange when writing.

San Francisco.

News Items.

The State Floral Society has endorsed the action of the Forestry Section of the California Club with regard to the project of foresting the military reservation at Fort Baker. It is proposed to plant an abundance of forest trees on the reservation to ornament the Golden Gate entrance to the harbor, a project that has won the hearty approval of General Fred Funston, commanding the U. S. Military Division of California. The meeting was attended by California's vice president of the Society of American Florists, H. Plath, and Florist Frank Pelicano. These two growers were present in the capacity of committeemen from the Pacific Coast Horticultural Society to discuss with the State Floral Society united efforts on the part of both associations regarding the next flower show, which the State Society had announced for October, but which at this joint conference was changed to November 9, 10 and 11. Also at this meeting of the State Society and the Pacific Coast Society's committee it was agreed that both societies make common cause for the success of the November show, which they dated a little later than was wished for in order to be in the show field with the first of the season's chrysanthemum stock, but deferred to the dates because the San Mateo Society had selected to hold its show November 2, 3 and 4, and on November 6 will be held San Francisco's municipal election, and the 7th and 8th had been bespoken for the Menlo Park flower show. For the November 9, 10 and 11 show Mrs. J. R. Martin, of the State Floral Society, has been placed in charge of all arrangements, with the following committees: Floral Society—Mrs. O. D. Wheeler, Mrs. J. Brannin, John Hinkel, John Vallance. Horticultural Society—H. Plath, M. Munro, Frank Pelicano, E. Ferrari, J. W. Bage and Niels Peterson. ALVIN.

COMING EXHIBITIONS.

MORRIS COUNTY (N. J.) GARDENERS and FLORISTS' SOCIETY.—The tenth annual show of this society will be held in the Assembly Rooms, Madison, N. J., Thursday and Friday, October 26 and 27, 1905. The premium list has been issued. Among those donating special prizes are: Vaughan's Seed Store, Stump & Walter Co.; R. & J. Farquhar & Co.; W. E. Marshall, Peter Henderson & Co., Weeber & Don, and J. M. Thorburn & Co. Copies of the schedule can be secured from Secretary E. Reagan, Box 315, Morristown, N. J.

ROSES

1500 Golden Gate, 3 1/2 in., \$4.00 per 100.
1000 American Beauty, 3 1/2 in., \$5.00 per 100.
Extras good and clean.

Worcester Conservatories, Worcester, Mass.
Mention The Florists' Exchange when writing.

ROSES FOR CASH

Look over list, pick out what you want, deduct 10 per cent, and get ordered promptly. We will hold until you want shipped.

VARIETY.	2x2 1/2 in.	2 1/2 x 3 in.	3x3 in.
Bride	\$2.50	\$3.50	\$5.00
Bridesmaid	2.50	3.50	5.00
Golden Gate	2.50	3.50	5.00
Ivory	2.50	3.50	5.00
Meteor	3.00	4.00	6.00
Sou. de Wootton	3.00	4.50	6.00
Kaiserin Augusta Victoria	3.00	4.50	6.00
Perle des Jardins	3.00	4.50	6.00
Belle Siebrecht	3.50	4.50	7.50
La France	3.50	4.50	7.50
Sou. du Pres. Carnot	3.50	4.50	7.50
Gen. MacArthur	6.00	7.50	10.00
La Detroit	6.00	7.50	10.00
American Beauty	6.00	8.00	

Special Net-price of \$5.00 on 3 in. Woottons, Esmerald and Perle, 3 in. MacArthur are extra. Write GEO. A. K'ILL, Pekin, Ill., the man who grows Ferns, Plumose and Sprenger as well as Roses.
Mention The Florists' Exchange when writing.

PHILADELPHIA ROSES

American Beauties, 4 in., 3 in., 2 1/2 in.
MYERS & SAMTMAN, WYNDMOOR STATION, CHESTNUT HILL PHILADELPHIA, PA.
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Fine stock from 2 1/2 in. and 3 1/2 in. pots, of the choicest varieties, including Killarney, Bride and Bridesmaid. Write for prices.

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ROSES

Bride and Bridesmaid, strong, healthy 3 in. stock, \$4.00 per 100; \$35.00 per 1000.
Write for sample and be your own judge of value.

GEO. E. CAMPBELL, Flourtown, Pa
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400 American Beauty, 4 in. pots; Bridesmaid, Bride, 3 in. pots. Prices low.

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JOHN BURTON, Receiver.

ROSES, PALMS, CROTONS

CARNATIONS and Novelties in DECORATIVE PLANTS

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LOOK HERE

2000 good BRIDESMAIDS, from 3 1/2 inch pots, at \$1.00 per 100.

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FIRST-CLASS ROSES

3 1/2 inch pots, \$5.00 per 100.

Bride Bridesmaid Hoste
Perle sunset
Meteor Sunrise
Chatenay Golden Gate
Ivory

P. R. QUINLAN & CO., Syracuse, N. Y.
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Grafted Roses

Fine Stock—Ready for Benching per 100
Bride, Bridesmaid, Golden Gate, 3 1/2-4 in. pots \$100.00 per 1000..... \$12.00
Baby Ramblers, 5 in. pots, in bud and bloom, \$5.00 per doz., 3 in. pots, very strong 20.00

FINE OWN ROOT STOCK
Bride, Bridesmaid, Golden Gate, 3.50
Ivory, 3 in. pots..... 5.50
4 in. stock, delivery June 15..... 5.50

CHRYSTANTHEMUMS
For varieties and prices see my advertisement in issue of May 27, page 700.

JAMES E. BEACH,
2019 Park Avenue, BRIDGEPORT, CONN.
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ROSE STOCK

GRAFTED KILLARNEY

I had ordered material for the erection of several new rose houses this Spring. Recent unavoidable events have caused me to change my plans. This leaves me with several thousand very desirable grafted roses on hand which I now offer for sale at a bargain. This lot includes **KILLARNEY, METEOR** and **BRIDESMAID** in 3 in. pots, first-class stock, intended for my own use. These roses are ready for immediate planting, and of healthy and vigorous growth. Also ready for immediate shipment, grafted **Bride, Chatenay, Ivory, Golden Gate, La Detroit, Testout** and **Morgan**. I have in own-root stock **American Beauty, Chatenay, Bridesmaid, Bride, Meteor, Golden Gate, Ivory** and **Uncle John**. Several thousand home-grown, dormant Killarney to offer this Fall.

Write for Prices.

A. N. PIERSON, CROMWELL, CONN.

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CHRYSANTHEMUM STOCK

Rooted Cuttings

The following choice varieties of **CHRYSANTHEMUMS**, rooted cuttings, are now ready; healthy, vigorous, well-rooted plants:

Enguehard, Duckham, Marie Liger, Ethelyn, Alice Byron, Polly Rose, Willowbrook, Wanamaker, Robinson, MacArthur, Chadwick, Glory of Pacific, Pink Ivory, J. K. Shaw, Adela, Maud Dean, Lavender Queen, Harriott, Monrovia, Georgiana Pitcher, Appleton, Golden Gate, Bonnaffon, Trenor L. Park, Cullingfordii and **Kate Broomhead**.

ROSES

Clothilde Soupert White Cochet
Maman Cochet Marechal Niel
Etoile de Lyon Ivory
La France Sov. de P. Nolling
 Fine stock 2 1/2 in. pots, \$2.00 per 100.
Magna Charta Paul Neyron
Capt. Christy Ball of Snow
 2 1/2 in. pots, \$3.00 per 100.
Crimson Rambler 1 1/2 in. pot ready for shift, \$1.50 per 100.
Baby Rambler 1 1/2 in. pot ready to shift, \$1.00 per doz.; \$7.00 per 100.
JOHN A. DOYLE, Rose Grower, Springfield, Ohio

BABY RAMBLER

On Its Own Roots

Strong, healthy, 2 1/4-in. plants, \$2.50 per doz.; \$15.00 per 100; \$125.00 per 1000.
 Ready to ship at once.
 A few 3 inch plants, \$3.50 per doz.; \$25.00 per 100.

THE CONARD & JONES CO.
WEST GROVE, PA.

ROSES

2 1/2 Pot Plants

MME. ABEL CHATENAY, KAISERIN AUGUSTA VICTORIA, UNCLE JOHN, \$3.00 per 100; \$25.00 per 1000

	Per 100	Per 1000		Per 100	Per 1000
ROSALIND ORR			PERLE VON GODES-		
ENGLISH	\$25.00	\$200.00	BERG	\$5.00	\$40.00
LA DETROIT	6.00	50.00	BRIDESMAID	3.00	25.00
AMERICAN BEAUTY	5.00	40.00	BRIDE	3.00	25.00
LIBERTY	5.00	45.00	IVORY	3.00	25.00

AMERICAN BEAUTY, bench plants, \$5.00 per 100; \$40.00 per 1000.
BRIDESMAID and **PERLE**, 3 in., \$5.00 per 100; \$40.00 per 1000.

All plants and rooted cuttings sold under express condition that if not satisfactory when received they are to be immediately returned, when money will be refunded.

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PETER REINBERG, 51 WABASH AV., CHICAGO

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FOR FORCING

Extra fine, healthy plants, free from mildew.
Liberty, 3 1/2 in. pots, \$18.00 per 100.
Bridesmaid, Golden Gate, Kaiserin, 3 1/2 in. pots, \$15.00 a 100; \$145.00 a 1000.

SMILAX

2 1/2 in. pots, \$1.50 per 100; \$12.50 per 1000.

SEND FOR PRICE LIST.

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ROSES

Bargain Prices While They Last

This stock is very fine and in nice condition for planting. We need the room badly, therefore wish to dispose of same quickly. Will exchange part for two inch Smilax.

	Per 1000
17,000 Bride , 2 1/4 in. pots	\$20.00
32,000 Bridesmaid , 2 1/4 in. pots	20.00
5,000 Meteors , 2 1/4 in. pots	20.00
2,000 American Beauty , 3 in. pots, very fine	70.00
2,000 Bride , 3 in. pots	30.00

250 at 1000 rates
LAKE VIEW ROSE GARDENS, Jamestown, N.Y.

Everblooming Roses

Surplus stock of standard varieties of Everblooming Bedding Roses, at prices that will close them out.

Strong, healthy stock from 2 1/2 in. pots, to include **Bridesmaid, Bride, White Maman Cochet, Mary Washington, Queen's Scarlet**, etc.

Strictly our choice of varieties in good assortment, \$2.00 per 100, \$17.00 per 1000

The Stopps & Hapison Co.

PAINESVILLE, OHIO

ROSE PLANTS

STRONG, HEALTHY STOCK

	Per 100
KAISERIN , 2 1/2 in. pots	\$5.00
KAISERIN , 3 " "	7.00
BRIDESMAID , 3 in. pots	5.00
BRIDE , 3 in. pots	5.00
LIBERTY , 3 in. pots	6.00
LIBERTY , 4 " "	10.00
AMERICAN BEAUTY , 3 in. pots	7.00

THE LEO NIESSEN COMPANY
 1217 Arch St., Philadelphia, Pa.
 Mention The Florists' Exchange when writing.

ROSES

FOR IMMEDIATE EFFECT

Haven't you in your trade a call for large, strong Rose plants, such as will give immediate results? We have prepared for June planting a stock of strong, two-year-old plants, all on own roots, except where noted, and while they last will close them out at the extremely low price of

\$15.00 per 100; 25 or more at 100 rates. No charge for packing

These Roses can be placed in the open ground during this month and will give a profusion of flowers throughout the entire growing season. They are worth just twice as much as we are asking for them, and they can be depended upon to produce the goods. They are well foliaged, have strong working roots and are now in 4 in. and 5 in. pots. The collection includes a wide range of varieties and colors, Teas and Hybrid Teas, such as **Meteor, Henry M. Stanley, Kaiserin Augusta Victoria, Marie Guillot, White Maman Cochet, Coquette, de Lyon, Pink Soupert, Clothilde Soupert, Golden Gate, White Golden Gate, The Queen, Ma Fillette, Helena Gambler, Yellow Soupert, Mme. Jules Grolez, Striped La France, Yellow La France, Bridesmaid, The Bride, Mme. Welche, Duchess of Albany, Mme. Abel Chateaux, Marie Lambert**.

CLIMBERS—Crimson Rambler, Yellow Rambler, Climbing Clothilde Soupert and Cherokee.

HYBRID PERPETUALS—Coquette des Blanches, Perle des Blanches, Perfection des Blanches, Mme. Gabriel Luizet, Merveille de Lyon.

Margaret Dickson, hudded, 5 inch pot plants, \$25.00 per 100.
Soleil d'Or, hudded, 5 inch pot plants, \$25.00 per 100.

BABY RAMBLER Ever-blooming Dwarf Crimson Rambler. A gem among Roses. Always in bloom. Every florist in the land should have it. 2 1/2 inch pot plants, now ready for delivery, \$2.50 per dozen; \$15.00 per 100; \$125.00 per 1000.

MISCELLANEOUS PLANTS

In 2 1/2 inch pots except where noted.

	Each	Each	
Asparagus Sprengerl	\$0.04	Yellow Alternantheras	\$0.03
Asparagus Plumosus . . . . .	.05	Carnations, F. Joost, E. Crocker, Queen Louise . . . . .	.05
Kentia Belmoreana, 3 in. . . . .	.10	English Ivy . . . . .	.04 1/2
Areca Lutescens, 3 in. . . . .	.10	Sweet Scented Geraniums . . . . .	.04
Flowering Begonias, assorted, named varieties03 1/2	English Clematis, six kinds, including Jackmanii, strong, two-year imported roots20
Fuchsias, named varieties04		
Boston Fern04		
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ROSE GROWERS

70 GREENHOUSES

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J. F. ROSENFELD
Pæonia Specialist
 WEST POINT, NEBRASKA
 FINEST VARIETIES LIST FREE

Mention The Florists' Exchange when writing.

PEONIES

The economic question is the base of all industry and effort; critically studied, its laws respected, brings success; indifferently followed, brings failure. It is just as easy to start right and make money, as to start wrong and lose money; it is largely in the sorts one plants.

Mr. Cut-Flower Florist, you will doubtless want to plant Peonies, the kind that bring \$ \$ \$ \$. We have all kinds. Plant only the best; that is what we are doing and it is making us money. Why not you? It all depends on you.

We advise you to grow sorts that are free bloomers with stiff light stems, bright fresh colors, of large size, full double, that are hardy bud sorts. Unless they contain all these points we would not plant them largely. The off year is when most money is made; prepare for the off year.

We have quite a thousand sorts, some in very large supply, others in a small way for testing purposes. Our collection is the most representative in the world. The extra fine cut flower sorts are limited in number, but these limited kinds we have in large supply. We expect to plant a large acreage this Fall for cut flowers, but only the very best sorts especially adaptable for this purpose; every one must have the Betscher standard of excellence.

Here are the remarks of some visitors of national repute when here viewing our stocks:—"A very, very fine collection." "Your Peonies are the finest coming to our market." "I am overwhelmed at this scene—a glimpse of heaven." "I never realized the Peony to be such a fine thing; no wonder you are so enthusiastic and confident about their future." "Such Peonies as these will sell anywhere."

Our leaders are Dorchester, Grandiflora, Perfection, Rubra Superba, Festiva Maxima, Golden Harvest, Floral Treasure, Whitley, Achilles, Mme. Calot, Marie Stuart, A. Lauris, etc.

Plants from 1 to 5 years old; everything true to name; personal attention. Write us for prices and any information you may desire about the Peony.

C. BETSCHER, Canal Dover, Ohio

Mention The Florists' Exchange when writing.

The Book of the Hour
THE PEONY MANUAL
 By C. S. Harrison

The only comprehensive work on this popular class of plants. Cheap, too; but good.

Price, 30 Cents each, postpaid. Order Now.

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P. O. BOX 1697

CHRYSANTHEMUMS

From 2 1/2 in. and 3 in. pots.

A. J. Balfour, G. W. Childs, Golden Wedding, Miss Alice Byron, Dr. Enguehard, Merza, Mayflower, Yellow Eaton.

Price from 2 1/2 inch pots, \$4.00 per 100.

Mrs. McArthur, Mrs. H. Robinson, Mrs. Barclay, Maud Dean, Mrs. Coombs, Nagora, Superba, Silver Wedding.

Price from 2 1/2 inch pots, \$3.50 per 100; \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Collingfordii, Dorothy Devens, Glory Pacific, Harry May, Harry Parr, J. E. Lager, J. H. Troy, Mrs. Jerome Jones, Meta, Minnie Wanamaker, Mrs. Baer, Mrs. S. T. Murdoch, Miss M. M. Johnson, Major Bonaffon, Mrs. Humphrey, Mad. Fred Bergman, Niveus, Polly Rose, Rose Owen, Thomas H. Brown, Timothy Eaton, Xenia, T. Carrington, Ivory, W. H. Lincoln, Soleil d'Octobre, Col. D. Appleton.

Price, from 2 1/2 inch pots, \$3.00 per 100; \$25.00 per 1000.

ROSES

Hermosa, La France, Clothilde Soupert, Crimson Rambler, from 5 1/2 in. pots, strong \$25.00 per 100. Hardy and everblooming vars. 2 1/2 inch, \$4.00; 3 1/2 inch, \$2.00; 4 inch, \$15.00 per 100.

CRAFTED FINE STOCK

Bride, Bridesmaid, Golden Gate, Carnot, Kaiserin, Teestout, La France, Wootton, Watteville, Albany, from 3 inch pots, \$15.00 per 100.

Kilbarney, from 3 in. pots, \$18.00 per 100.

WOOD BROS., Fishkill, New York

Mention The Florists' Exchange when writing.

OWN ROOT ROSES Fine Stock

Bride, Bridesmaid, Golden Gate, 2 1/2 in. pots \$4.00 per 100; \$38.00 per 1000. 3 in. pots, \$7.00 per 100; \$60.00 per 1000.

MISCELLANEOUS PLANTS

READY FOR IMMEDIATE SALES.

	Size pots	Per 100
Alternanthera, red and yellow	2 1/2	\$3.00
Ageratum, Pauline, Cope's Gem	2 1/2	3.00
Stella Gurney and White	2 1/2	3.00
Casp.	3	4.00
Cuphea Platycentra	2 1/2	3.00
Cobaea Scandens, strong	3 1/2	10.00
Coleus, all leading varieties	3	4.00
Ivy, German	2 1/2	3.00
Canoas, varieties as list	6.00 & 8.00	
Egg Plants	2 1/2	2.00
Feverfew, double white	2 1/2	3.00
Geraniums, double and single strong	3 1/2	7.00
" special color or variety	3 1/2	8.00
" Ivy, fine varieties	3 1/2	8.00
English Ivy	3 1/2	8.00
Fuchsia, double and single	2 1/2	3.00
Heliotrope, light and dark vars.	2 1/2	3.00
Hydrangea Otuka, in bud	5	25.00
Ivy, German	2 1/2	3.00
Lantana, 12 best vars.	2 1/2	4.00
Lobelia	2 1/2	3.00
Moonflower, white	4	10.00
Pepper Plants	2 1/2	2.00
Salvia, Splendens, Bedman, etc.	3	4.00
Tritonia Pfitzeri str ng.	4	10.00
Tropeolum, double		4.00
Verbenas		3.00
Violets, M. Louise, 2 1/2 in., \$3.00 per 100; \$25.00 per 1000.		

Novelties.

A pleasant diversion, and one of the most interesting side lines to practical, everyday horticulture, is provided by the untamable readiness of every progressive gardener to annually invest a share of his hard-earned money in new, strange and rare things pertaining to his business. In this respect at least, we are fully up and in line with those in any other progressive trade or profession, who are all doing the same. Although the true spirit of advancement and progress is by no means the only spur that urges us to buying and trying novelties, this searching for things new and uncommon, nevertheless, amounts to a forward movement in the right direction.

The list of new introductions in seeds, bulbs, roots and plants, offered every year, is a long one. To go in for all of them is out of the question. The florist anxious to invest in a few good things is in a quandary what to choose. The hope of securing something superior to anything now in his possession, the desire to astonish his neighbors and competitors, and the clearing thereby of a possible handsome profit, are the supreme judges in the selection of new things to be tried.

The main object, when going in for novelties, is and should be to obtain something better than the everyday run of stock, not only something strikingly new, but also far ahead of anything existing in those points which go to make the novelty a plant desirable, useful and profitable to handle. It may now be that, in the whole long list of new and rare plants offered in any one season, there is nothing that would fulfill these hopes or would come in any way near being anything unusual; or, should there really be one or more which, if chosen, would richly repay the experimenter in novelties, he is very apt to overlook just these. He has nothing to go by or to guide him except the descriptions of the introducers and originators, who, all and everyone alike, spare no words in proclaiming their product to be the one mostly fitted to fill a long-felt want, and the one most indispensable to every

grower of plants. Then, again, assuming that all these alluring laudations are really honest coin and language based on and inspired by actual facts—and we have no reason to doubt this—will the plants that have given such amazing results in a climate and under conditions dissimilar to ours, do the same in our soil, in our locality, and under our treatment?

After saying all this, it may appear to the gardener and florist, reluctant to try his hand in the growing of novelties, that the chances for realizing on an outlay in money and time thus made, are exceedingly meagre. But, after all, this is not the case. I try some novelties every season, have done so for years, and have not only lost no money thereby, but have found this sort of sport a source of direct and indirect profit, as well as one of rare interest and genuine pleasure. My experience in this field of horticultural activity will be that of others who follow the same course in supplementing and improving their stock in trade. This searching for new things in our line of industrial life is not merely a fanciful whim; it has gradually developed into a necessary measure, resorted to in the effort to keep up our end of the trade.

As far as the chances of making money by a free use of newly introduced plants are concerned, it may safely be averred that they are greater than the risk of losing any thereby. My own experience has been that out of dozens of new things that I tried one or more seasons, but few proved at the start grand money-earners, but still fewer a total loss. A single hit in a batch of high-priced novelties more than fully makes good the shortcomings of all the others.

While the public is aware of the efforts made on all sides in the improvement of the leading cut flower products, it fails to recognize or to fully appreciate new varieties. A rose to most people is simply a rose, and a carnation a carnation. In the plant line of our business, the distinction between new and old varieties, between strangely new and well-known old plants, is much greater. Good novelties of any kind make their sharply cut, unmistakable mark everywhere in greenhouse and garden. A new plant is quickly espied and hailed with pleasure. Even any strange, unknown thing, already condemned as worthless by the grower, finds its admirers, and any really fine and exceptionally good novelty will fetch almost any price the grower deems right to ask.

But it is not this sort of business alone we should be after when investing in novelties. New forms of plant life, new types and improvements are to take the place of old, enfeebled and deteriorated varieties, of which latter only too many are yet to be found in cultivation; while, at the same time, some really good old favorites are pushed aside and into oblivion, remaining there until at some time in the future they turn up again as novelties, new to a generation of gardeners that has never seen them.

The reasons for the relegation of some good old standbys to a back seat may, after some reflection, seem obvious, but it is difficult to understand why some growers persist in filling their greenhouse benches and their customers' gardens with a lot of plants, all belonging to old, exhausted, emaciated varieties, long since out of date and superseded by better and much finer sorts, when the growing of these improved kinds would involve no more expense, require no more labor, time or bench room than the culture of the old-time rubbish, and would sell faster and bring better prices.

Any go-ahead florist, alive to the requirements of present-day business and present-day horticulture, who is not only a grower but also a lover of plants, should invest in the seeds and plants of a few novelties every year, should make a careful selection, and work up a stock of those proving valuable acquisitions. But he should not offer anything new to his customers the first season, not until it has undergone a thorough trial, and has been found to be of merit and worthy a place in house or garden.

FRED W. TIMME.

Marie Louise Violets

Nice plants from soil, clean and thrifty, \$2.00 per 100; \$15.00 per 1000. Satisfaction guaranteed. Cash with order.

O. H. House, Babylon, L. I., N. Y.
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PEONIES

Wholesale and retail catalogues ready for distribution. Sent free on application. All stock guaranteed true to name. Send your orders in early to be assured of a good collection for Fall planting.

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505 W. Peterson Ave. CHICAGO, ILL.
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TELEGRAM

New York, June 19.
To EDWARD SWAYNE, West Chester, Pa.

Big Peony issue June 24. Mail copy for special advertisement at once.

THE FLORISTS' EXCHANGE.

West Chester, Pa., 6, 20, 1905.

THE FLORISTS' EXCHANGE

Gentlemen: In answer, we have sent forty thousand flowers from our stock this season, and can supply some twenty-five varieties.

Yours truly,

EDWARD SWAYNE.

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Cattleya Schroederæ

(THE EASTER CATTLEYA)

We have at last succeeded in collecting and bringing here in superb condition the largest and finest shipment of this beautiful Cattleya ever collected.

WRITE FOR PRICES.

LAGER & HURRELL, Orchard Growers and Importers, Summit, N. J.

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Contents.

Table listing contents and page numbers, including American Peony Society, Exhibition (illus.), Officers of, etc.

New York.

News of the Week. The fifth annual outing of our Florists' Club, which comes off on Wednesday next, June 28, is to be a splendid affair, and one of the best on record.

INDEX TO STOCK ADVERTISED

Index listing various plant species and their page numbers, including a, col. 1; b, col. 2; Passiflora, Abutilon, Ageratum, etc.

At present, croakers about dull business are in the minority. This is particularly graduation week at most of the schools, and with also a number of weddings going, even though the individual calls for blooms are modest ones.

presentation in a neat speech. Charlie has been in the employ of the firm consecutively for 23 years. He is still a young man, and enjoys the confidence and respect of his employers on account of his many excellent qualities, both as a workman and a man.

Buffalo, N. Y.

At present, croakers about dull business are in the minority. This is particularly graduation week at most of the schools, and with also a number of weddings going, even though the individual calls for blooms are modest ones.

News Notes.

At present, croakers about dull business are in the minority. This is particularly graduation week at most of the schools, and with also a number of weddings going, even though the individual calls for blooms are modest ones.

MARKETING TAGS! FOR CUT FLOWERS. JUST WHAT YOU NEED. For Sample and Prices, Address THE FLORISTS' EXCHANGE, 2-8 DUANE ST., NEW YORK.

The Heather IN LORE, LYRIC AND LAY By ALEX. WALLACE Editor of THE FLORISTS' EXCHANGE Tells the Story of Scotland's Famous Mountain Flower in Prose and Poetry. Full cloth, 280 pages, freshly illustrated, including frontispiece in color. PRICE \$1.50, Postpaid Send for free Sample Pages and Extracts from Reviews. A. T. DeLaMare Ptg. & Pub. Co. Ltd. 4-5 Duane Street, NEW YORK Mention The Florists' Exchange when writing.

50,000 CHRYSANTHEMUMS

From 2 1/4 Inch Pots. Ready Now.

This stock is in fine growing condition, strong and healthy. Can ship the day order is received.

	Per 100	Per 1000		Per 100	Per 1000
Polly Rose.....	\$2.00	\$20.00	Major Bonnaifon.....	\$2.00	\$18.00
Glory of Pacific.....	2.00	18.00	Timothy Eaton.....	2.50	22.00
Haltiday.....	2.50	22.00	Willowbrook.....	2.50	22.50

10,000 COLEUS Golden Bedder, Verschaffeltii and Fancy Mixed, at \$2.00 per 100, from 2 1/4 in. pots.
5,000 SALVIAS, 3 in., at \$3.00 per 100. Cash with the order.

H. N. EATON, Manager, So. Sudbury, Mass.
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Chrysanthemum Stock

2 1-4 INCH POTS

Our stock plants have never been stored under the bench but have been grown cool in one of our best three-quarter span houses since flowers were cut. We offer short, stocky plants, in perfect condition.

Pink. Per 100	Yellow. Per 100	White. Per 100	White. Per 100
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A. J. Balfour..... 3.00	C. J. Salter..... 4.00	Ivory..... 2.00	Timothy Eaton... 2.50
Dr. Enguehard... 4.00	Oremos..... 2.00	Lady Fitzwygram. 2.00	White Bonnaifon.. 2.00
Glory of Pacific... 2.00	Henry Sinclair... 2.50	Mme. Bergman... 2.50	White Maud Dean 4.00
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Mlle. M. Liger... 3.00	October Sunshine. 2.00	Nellie Pickett... 2.50	Crimson.
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Nemesis..... 2.00		Mrs. Jerome Jones 3.00	Dazzler..... 3.00
Pink Ivory..... 2.00		Mutual Friend... 2.00	John Shrimpton... 2.50

EDW. J. TAYLOR, SOUTHPORT, CT.
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SURPLUS Chrysanthemums

Merry Christmas, Wm. Duckham, Dr. Enguehard, Sinclair, Bonnaifon, Ivory, Pink Ivory, Maud Dean, Alice Byron, Philadelphia, J. Jones, Glory of Pacific, Polly Rose, Pink Jones. Out of pots. \$3.00 per 100 if a number of varieties are taken.

H. W. FIELD, Northampton, Mass.
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50,000 Chrysanthemums

Dr. Enguehard, Amarita, Golden Wedding, Ivory, Appleton, Jerome Jones, Pacific, Polly Rose, Willow Brook, Robinson, Maud Dean, Bonnaifon, white and yellow.

ROSES
 Kaiserin, Hermosa, Clothilde Sonpert, Cochet (pink and white), Ivory, 3 in. pots, \$1.50 per 100; \$40.00 per 1000.

J. D. BRENNEMAN
 Box 24 HARRISBURG, PA.
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Chrysanthemums

New and standard varieties. Fine plants now ready, 2 1/2 inch pots. Write for list and prices.

H. WEBER & SONS
 Oakland, Md.
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Chrysanthemums

2 in. stock of Wm. Duckham, Dr. Enguehard, Ben Wells and Donald McLeod, \$3.50 per 100. Rooted cuttings from sand, \$2.00 per 100. Send for regular list.

R. ENGELMANN & SON, Pittsfield, Mass.
 Mention the Florists' Exchange when writing.

CHRYSANTHEMUMS

10 named Hardy Pompons, also the following: Helen Bloodgood, Col. D. Appleton, Edgar Sanders, J. G. Whilden, Mrs. Chamberlain, O. P. Bassett, Glory of Pacific, Mrs. Perrine, Estelle, Major Bonnaifon, Dr. Enguehard, \$2.50 per 100.

STOKENIA CYANEA, 2 in. pots, \$2.00 per 100,
HELIOTROPES, HARDY PULOX, FUCHSIAS, \$2.50 per 100.
SALVIAS, \$2.00 per 100. **FLOWERING BEGONIAS**, \$2.50 per 100.
MOON VINES, 2 1/2 in., \$2.50; 4 in., \$10.00 per 100. Cash accompany order.

THE NATIONAL PLANT CO.
 DAYTON, OHIO.
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CHRYSANTHEMUMS

EASIGOLD This year's introduction, bud best early yellow. You will want a house of it next year. Strong plants from sand or soil, \$3.00 per 100; \$50.00 per 1000.

WHITE AND PINK IVORY From soil, \$2.00 per 100.
BONNAFFON From soil. \$2.00 per 100.

BABY A few plants of this variety, so successfully grown by Robert Craig last season, \$5.00 per 100.

RIVERSIDE GREENHOUSES
 AUBURNDALE, MASS.
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CHRYSANTHEMUMS

Planting time at hand. Best standard varieties in stock. Send List for best quotations

NATHAN SMITH & SON
 ADRIAN, MICH.
 Mention the Florists' Exchange when writing.

Chrysanthemums

Write me. I can save you money.

CHARLES H. TOTTY, Madison, N. J.
 Mention The Florists' Exchange when writing.

Boston.

News Jottings.
 Don't forget the outing of the Gardeners and Florists' Club, at William Sim's establishment, Cliftondale. The party will meet at Scollay Square at 2 o'clock Saturday, July 1. If you are interested and not a member of the club you will be welcome just the same, and it is to be hoped that a good delegation from both flower markets will be present.

Robert T. McGorum, the well known rose grower of Natick, sailed for a trip to Europe, June 17.

Henry M. Robinson and W. Rosenthal have returned from a week's outing in Maine.

F. R. Mathieson, Ed. Hatch and W. J. Stewart have started for the wilds of Maine, and wonderful piscatorial stories are expected on their return.

Wedding decorations have been keeping several of the stores hustling these days. Galvin's, Back Bay, have men doing a lot of these decorations. Doyle has several decorations for class days at Harvard.

The Garden Committee of the Massachusetts Horticultural Society visited T. C. Thurlow's and F. S. Museley's places at Newbury, on Wednesday.

M. M. Dawson, manager of the Eastern Nurseries, will sail for Europe July 1.

Visitors this week included Robert Scott, of Philadelphia, and Wm. R. Smith, Washington, D. C.

J. W. DUNCAN.
 Cleveland, O.

News Notes.

The extremely hot weather prevailing is very trying to greenhouse men in general. Stock is being forced at such a rate that it comes up small, crippled and of poor color. Especially is this true of roses, which, however, command fair prices from \$5 to \$8 a hundred.

Herman Hart returned Monday from a trip to Mt. Clemens with Mrs. Hart whom he has left there to take the baths. Mr. Hart has been telling about a record-breaking trip of two hours in an automobile with some prominent Michigan florists, taking in all notable places in Detroit, and arriving at boat 15 minutes before it pulled out.

Owing to the hot weather the attendance at the Florists' Club meetings is very light these days; even bowling has lost its charm.

Fred Moritz, 62 Edmund street, has bought a fine new delivery wagon. John Leuschner, of Rocky River, has finished building a house 120 by 20 feet. He intends growing roses to supply his own trade. O. G.

25,000 Nice Soft Chrysanthemums

from 2 1/4 in. pots, not leftover stock at \$2.50 per 100; 500 plants, our selection, for \$10.00; Maud Dean, Glory of Pacific, M. Liger, Mrs. Murdock, Carrington, A. J. Balfour, Ivory, T. Eaton, Polly Rose, Bonnaifon, Appleton, Shrimpton, K. Broomhead, Opsh, Carrie, Mixed Pompan kinds.

Coolidge Brothers, So. Sudbury, Mass.
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CHRYSANTHEMUMS

BEST COMMERCIAL VARIETIES Per 100
 Strong Plants, 2 1/4 in. \$2.00
 Vioen Var., R. C., 1.00; 2 1/4 in. 2.50
 Violet, Princess Wales, R. C. 1.00
 Carnation, R. C. \$1.50 to 3.00

Write for List at once.
SMITH & GANNETT, Geneva, N. Y.
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Wholesale Florists
RICHMOND, IND.
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JOLIET, ILL.
 Carnations Our Specialty
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Field-Grown Carnations

Ready July 1, or any time wanted.	1st size	2d size
	Per 100	100
The Queen, the only white	\$6.00	\$5.00
White Lawson	10.00	8.00
Red Lawson	10.00	8.00
Pink Lawson	8.00	6.00

Sample free, via express. Cash please.

HENRY EICHHOLZ, WAYNESBORO, PA.
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The Beautiful Pink Carnation CANDACE

Dissemination 1908, \$2.00 per doz., \$12.00 per 100; \$100.00 per 1000. Early—commercial.

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 and John Harjls, Indianapolis Ind.
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MODEL EXTENSION Carnation Supports

ALSO
 Wire Rose Stakes and Tying Wire
160E BROS. Manufacturers, 226 North 9th St. Brooklyn, N. Y.
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150,000 Field-Grown CARNATIONS

We are now booking orders for same.
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MARLBORO, MASS.
W. L. LEWIS, Carnation Specialist
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CHICAGO CARNATION CO.

JOLIET, ILL.
 Ours plants are now in the field. Write us for Fall-delivery.
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ROBT. C. PYE

Carnations
 NYACK, N. Y.
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ASPARAGUS PLUMOSUS NANUS

Nice plants, \$1.50 per 100; \$12.00 per 1000. Sprenger, July 1, \$1.00 per 100; \$8.00 per 1000. Geranium cuttings, mixed, from soil, very strong, \$1.25 from sand, \$1.00 per 100. Ageratum (Gurley), Coleus Verschaffeltii and Yellow, German Ivy, 2c.

WM. STUPPE Westbury Station, L. I., N. Y. Mention the Florists' Exchange when writing.

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Largest Importers, Exporters, Growers and Hybridizers in the world.

SANDER & SONS, St. Albans, England Agent, A. Dimmock, 31 Barclay St., N. Y. City Mention The Florists' Exchange when writing.

FERNS A good variety of the right kinds for filling fern dishes, etc., 2 1/2 inch, \$3.00 per 100. KENTIAS and COCOS, nice for centers, 2 1/2 inch, 10 cts. each; \$9.00 per 100. DRACENA INDIVISA, 6 inch, 35 cts. each; 4 inch, \$10.00 per 100. SALVIA SPLENDENS, 2 1/2 in., \$2.00 per 100. SALVIA, from flats, \$1.00 per 100.

H. WESTON, HEMPSTEAD, N. Y. Mention The Florists' Exchange when writing.

FRESH IMPORTATION OF

Cattleya Trianae and Gigas

WRITE FOR PRICES

THOMAS JONES, Short Hills, N. J.

Mention the Florists' Exchange when writing.

BOSTON FERNS

Palms, Dracaenas Ceraniums, Coleus

and general bedding stock in large quantities. Write for prices. Cash or references.

L.H. FOSTERESTATE, 45 King Street, Dorchester, Mass.

Mention the Florists' Exchange when writing.

SCOTTII

See my advt. in issue, June 10.

JOHN SCOTT, Keap Street, Brooklyn, N. Y.

Branch: E. 45th St. and Rutland Rd., Flushing Telephone, 1207 Williamsburg.

Mention the Florists' Exchange when writing.

Araucaria Excelsa

From \$1.25 to \$2.00 each.

Kentia Belmoreana, from 50c. to \$5.00 each. Bedding Plants. A fine assortment. Write for prices.

WM. A. BOCK, No. Cambridge, Mass. Mention the Florists' Exchange when writing.

FERNS OUR SPECIALTY

Assorted Ferns for Jardinieres. We have a fine lot of these Ferns in all the best varieties ready for immediate use from 2 1/2 in. pots at \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rate.

FERN SEEDLINGS

We are banking orders now for June delivery at \$1.00 per 100; \$3.50 per 1000.

ANDERSON & CHRISTENSEN Telephone 14 F Short Hills, N. J.

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A Few Good Things You Want

A nice lot of made-up KENTIA PALMS in 6 in. and 9 in. pots at \$3.00 to \$5.00 each. Splendid plants for decoration.

Dracena Indivisa, 3, 4 and 6 in., \$5.00, \$10.00 and \$25.00 per 100.

Asparagus Plumosus, 8 in., \$5.00 per 100.

Asparagus Sprengeri, 2 and 3 in., \$3.00 and \$5.00 per 100.

Geraniums, S. A. Nutt, Castellane, John Doyle, Perkins, Mme. Sallerol, Single and Double Gen. Grant La Favorite, 2 in. pots, \$2.50 per 100; 3 in. pots, \$5.00 per 100.

Vinca Var., 2 in., \$2.00 per 100.

Scarlet Sage, Lobelia, Verbena, Vinca Var., Heliotrope, Double and Single Petunia, Coleus, red and yellow; Ageratum, blue; Alternanthera, red and yellow; Cigar Plant, 2 in. pots, \$2.00 per 100.

Rex Begonia, nice plants, 2 and 2 1/2 in., \$5.00 per 100.

Canna, red and yellow, and var., 3 in. pots, \$5.00 per 100.

Vinca Var., 3 in., \$4.00 per 100.

Boston Ferns, 5 in., 30c. each. Cash with order.

GEO. M. EMMANS, Newton, N. J.

Mention The Florists' Exchange when writing.

You can readily make A Handsome Profit now, by filling your empty benches with

KENTIAS FOR FALL TRADE

I have never offered a better lot of these popular Palms. They are clean, vigorous and of exceptionally good value. I am confident you will be pleased with my stock.



KENTIA BELMOREANA

Table with 3 columns: Pot size, Leaf count, Height, Price per doz. and Per 100.

KENTIA FORSTERIANA

Table with 3 columns: Pot size, Leaf count, Height, Price per doz. and Per 100.

MADE-UP KENTIA FORSTERIANA

Table with 3 columns: Pot size, Plant count, Height, Price per doz. and Per 100.

All measurements from top of pot in natural position.

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Kentia Forsteriana and Belmoreana, from 2 1/2 in. pots, \$7.00 per 100; 3 in. pots, \$12.00; 4 in. pots, \$25.00; 5 in. pots, \$50.00; 6 in. pots, \$15.00 per doz.; from 7 in. pots and upward, at \$1.75 to \$35.00 each.

Araucaria Excelsa, 4 in., \$20.00; 5 in., \$50.00 per 100; 6 in., \$1.00 each. Larger plants, from \$1.50 up.

Pandanus Urtile, 6 in. pots, 50c. Dracena Indivisa, 5 in. pots, \$15.00 per 100. Phoenix Beccinata, 5 in. pots, \$35.00 per 100; \$4.50 per doz.; 6 in. pots, \$9.00 per doz. Larger plants from \$1.00 up.

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JOHN BADER, Troy Hill, Allegheny City, Pa.

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ARAUCARIA EXCELSA will do it.

The last shipment for the summer, per steamer Oxonia, arrived in Philadelphia, May 30, from Belgium. Grown there expressly for me, under contract, by an Araucaria specialist, 5000 of the choicest plants, better and shapelier than ever before, are now growing in my greenhouses. I herewith quote you special prices on them. Just look.

Table with 2 columns: Plant description, Price.

Table with 2 columns: Plant description, Price.

Araucaria Compacta Robusta, unusually large, very beautiful, from \$1.25 to \$1.50 each. Glauca, 75c. to \$1.00 each.

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Above are the sizes entered in the Philadelphia Custom House.

Ficus Elastica, imported, 4-in. pots, 25c.; ready June 1st.

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Scarlet Sage, Clara Bedman, and Begonia Vernon, red and pink, 4 in., \$7.00 per 100.

Heliotrope, blue, 4 in., \$6.00 per 100.

All goods must travel at purchaser's risk. Cash with order, please.

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A. W. Smith's Hybrid Moon-Vine, Ipomoea Noctiflora, is the one I grow exclusively. It is the only true Moon-Vine in America. Mr. Smith has a world-wide reputation for growing the best Moon-Vine seed. Please bear in mind that this is no Morning Glory, like some sell for Moon-Vines, but the pure white, waxy Moon-Flower, as large as saucers. 2 1/2 in., \$5.00 per 100; 3 in., \$7.00 per 100; 4 in., \$10.00 per 100. Nicely staked up.

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Seedsmen and the Trade in general

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Copy must reach this office **THURSDAY MORNING** to secure insertion in issue of following Saturday. Orders from unknown parties must be accompanied with cash or satisfactory references.

This week's index will be found on page 813.

A New Volume Begins with Next Issue.

News of the Week in Brief.

The American Association of Park Superintendents meets in Buffalo, N. Y., next week.

The St. Louis bowling team was defeated at De Soto, Mo., in a friendly game, by 50 pins.

Wallace R. Pierson, of Cromwell, Conn., will join the ranks of the Benedicts on June 27. Congratulations.

The New York Florists' Club outing will be held next week—Wednesday, June 28. A splendid time is assured.

F. H. Kramer is the coach of the Washington, D. C., lady bowlers, who, under his able instruction, are making rapid progress with the wood.

The Executive Board of the American Rose Society visited Hartford, Conn., this week, and were hospitably entertained by the local craftsmen.

The Boston Gardeners' and Florists' Club will have an outing to the establishment of William Sim, at Cliffondale, Mass., on Saturday, July 1.

The Secretary of Agriculture says that 40 per cent. of the lily bulbs imported annually into the United States are more or less affected by disease.

A flower rate war at South Bend, Ind., which has been waging for some time, was brought to a close last week by the florists agreeing on a scale of retail prices.

At the opening of the Florists' Yacht Club, at Waretown, N. J., for the season, the genial John Westcott was presented with a mantel clock for the clubhouse by his guests and friends.

The Newport (R. I.) Horticultural Society holds a rose and strawberry show next week. Some handsome special prizes are offered by the wealthy residents of this noted resort.

C. W. Ward, Queens, N. Y., has been elected president of the American Peony Society for a third term. The next meeting and exhibition of this organization will be held in Boston in 1906.

The American Association of Nurserymen, at its annual meeting in West Baden, Ind., elected Emory Albertson, of Bridgeport, Ind., president. The association goes to Dallas, Tex., next year.

President Vaughan, S. A. F. O. H., entertained a party of St. Louis florists at lunch this week, including the local club officials and resident officers of the national society. A special train, to be known as "The President's Train," will convey the western members to Washington in August next, picking up delegates en route. A large crowd is anticipated.

A Correction.

In the item regarding the strength at which Bonora should be used (page 787 of last week's issue), read: "Use 100 parts of water to 1 of Bonora," etc., and not as before printed.

THIS WEEK'S SUPPLEMENT.

Wistaria Chinensis.

It would be hard to name a vine more deservedly popular than the Chinese wistaria, *Wistaria chinensis*. In early Spring, when its wealth of flowers are expanded, it is one of the sights of the season to see one such as our photograph represents. In one sense it is not a vine. What we mean is, that popularly a vine is something to give shade—a purpose to which the wistaria is rarely put. It is almost of too woody a nature for a shade vine. More often it is planted purely as an ornament, and to add to the attractions of a dwelling, just as has been the one photographed. Occasionally they are seen planted to porches and arbors, but they are not always well placed in such situations. The wistaria is naturally of strong growth and nothing suits it better than to be given assistance to reach the top of some high building or of a tall tree. A branch can be guided from one part of a building to another, or from one tree to another, and this liberty to grow still further is just what the wistaria likes. Just imagine the sight presented by a vine of this wistaria when festooned with flowers in such abundance as is the one before us! And then think of the enjoyment to the occupants of the rooms, the windows of which the sweet odor of the flowers must fill!

We have seen this wistaria used to great advantage in reclothing with life a dead tree. Planted to one dead, or dying, and guided up until it reaches some branches, the wistaria will make its way of its own accord to the very top of the tree; and when it is well established and in flower, it is one of the grandest sights imaginable. One such case we know of where the tree is entirely dead and even decayed and fallen apart at the base, but is held up by a branch or two of the wistaria, which found their way to a living tree nearby some years ago, and are now firmly fixed to it. These hold up, but in a slightly leaning position, the dead tree. The appearance of the whole vine, completely enfolding the dead tree, the portion on the live tree holding up the whole of the dead one and its weight of living wistaria, is a great curiosity in a horticultural way.

It is not alone as a vine that the wistaria is used. As a bush, or as a small standard, it is a pretty object. To form a standard, some of its long shoots must be tied to a straight stick for a few years, until strong enough to support itself, which it will be in time. Then by keeping the head pruned close for a year or two, a bushy head is formed, and the standard is there.

Besides the common form of this wistaria, to which our notes refer, there are several varieties of it—one has pure white flowers, another double ones. In addition to these, there is a Japanese one, called multi-juga, which is now common in cultivation. In color of both the type and its varieties, for there are varieties of it, too, it resembles the common Chinese, the one our notes refer to, but the racemes of the flowers are very much longer, sometimes two to three feet in length. The flowers, however, are thinly scattered along the racemes, and, all in all, we do not think as much of it as of the common one.

Mentioning as we have that the Chinese wistaria is not to be thought of so much for shading as for flowering reminds us to say that our native species, *W. frutescens*, is excellent for the purpose. So also is the one deemed a hybrid, called *W. magnifica*. Their shoots are more slender and conform to the popular idea of what a vine for shading should represent. These two flower later than *W. chinensis*, the racemes are shorter, but are numerous, and all are the delight of bees.

JOSEPH MEEHAN.

Society Activity.

This week we present reports of the conventions of three national organizations devoted to different branches of horticultural endeavor, viz.: The American Association of Nurserymen, the American Seed Trade Association, and the American Peony Society. Each of the meetings was well patronized, and much good work was accomplished by all.

The nurserymen discussed, among other things, a uniform inspection law, the low prices on ornamental stock, and appointed committees to join forces with the American Seed Trade Association and the Society of American Florists in express and freight matters; also in an effort to have the postal regulations governing the mailing of catalogues in bulk revised, or modified in some way, so that the firms issuing catalogues may be relieved of the work of affixing stamps thereto, and have the method of mailing simplified so that the work can be done expeditiously without the handicap imposed under the existing postal ruling. This combined effort should result in some tangible good.

The nurserymen are also making an endeavor in which they likewise desire the seedsmen and florists to join to eliminate the system of "graft," or commissions to private gardeners and other persons charged with the purchases of trade merchandise for those who employ them, something which it is said is assuming such proportions in these days as to be regarded as a menace to good business methods. This matter was recently discussed at considerable length in a horticultural periodical, now defunct, and, so far as our recollection goes, it was then the consensus of opinion among the best private gardeners that the practice was not at all general among them; neither did it receive their countenance. Where it

does exist, however, it seems to us that it will be difficult to uproot it, so long as both parties to the transaction—the seller and buyer—see, or profess to see, no great harm in it. No law or other regulation can be put in operation among the respective merchants that can be universally binding; and until that period of civilization has been reached when the recipient of the "tainted money" puts his manhood and self-respect above the dollar, it might be better to agree on a set discount! A recognized rate of "graft" or commissions in operation, and openly announced, will put the merchants on an equal competitive footing, so far as that particular matter is concerned, provided all stick to the arrangement made; and when it is seen, after trial, that men are willing to stand by their word of honor in one phase of the case, then there will be greater hopes of the total eradication of the evil when combined effort assails it. To us it seems too bad, though, that any member of the noble and ancient profession of gardening must be classed with the Pullman car porter or the underpaid waiter in a cheap restaurant.

The American Peony Society held a successful meeting and exhibition in Chicago, Friday and Saturday of last week. The nomenclature committee, which has been at work in an endeavor to straighten out the names of peonies, has been continued, with Professor John Craig, of Cornell, at its head. Our interested readers should peruse President Ward's address, which appears in another column, for an idea of the aims and objects of the Peony Society. His remark that all carping criticism of this special organization and its work should cease, is pertinent and to the point. There has at no time, so far as we remember, been any ground for criticism of this society in any shape or form; its work is being conducted with only one object in view—the benefit of the business; and to that end it deserves commendation and support. A pull together will be productive of far greater results than odious comparisons or uncalled for, foolish insinuations.

The American Seed Trade Association held its annual convention at Alexandria Bay, N. Y., with a large attendance. This organization now embraces in its membership almost all the prominent seedsmen of the United States.

Society of American Florists and Ornamental Horticulturists.

Railroad Rates to Washington.

The Western Passenger Association, which controls the territory westward from Chicago and St. Louis to Cheyenne, Wyo., and including all points in Colorado, has authorized a rate of one and one-third fare on certificate plan, in co-operation with rate announced by the other passenger associations, for persons attending the S. A. F. convention at Washington, D. C., August 15 to 18, 1905. This extends the concession to the whole territory from which members are likely to travel, with the exception of the Pacific Coast, which is not under the jurisdiction of any passenger association.

Full instructions as to how to purchase tickets and secure certificates entitling the passenger to reduced rates will be published in the prospectus in July, and in all the horticultural trade papers.

WM. J. STEWART, Secretary.

THE SUFFOLK COUNTY (N. Y.) HORTICULTURAL ASSOCIATION opened its first annual Summer exhibition in Islip, L. I., June 14. There was a nice display of flowers, fruits and vegetables. Notable among the exhibits was a fine lot of flowering shrubs, from the estate of Mr. Samuel T. Peters (W. McCollom, gardener), which comprised 44 varieties. There was an immense display of rhododendrons from the Lawrence estate (C. Dumper, gardener), which were the finest we have seen in a long time, considering the late date. Mrs. A. Arnold (W. Wincott, gardener) showed a fine collection of peonies; also nice strawberries and cauliflower. The vegetable display was very fine, considering the very backward season.

In the display of digitalis from the Peters estate some of the spikes were 7 feet long.

In the regular classes W. McCollom was the most successful exhibitor, carrying off eight first and six second prizes. W. Wincott succeeded in winning seven firsts and five seconds. Mr. Yzek captured eight firsts and one second. Mr. Dumper was successful in seven classes, getting three firsts and four seconds.

Other exhibitors were: Adam Patterson, gardener for Col. Wagstaff, who showed some fine peonies and good vegetables; John Rodgers, gardener for H. G. Timmerman, glaxias, also very fine carnations for this time of the year. David Ireland, Huntington, L. I., had some very fine peas, for which he was awarded a special prize.

THE TRI-CITY FLORISTS' ASSOCIATION held a meeting at the Floral Hill Gardens, Davenport, Ia., last week. One of the chief matters which came before the session was the arrangement for the annual outing of the association. This will be held early in August. A committee composed of Emil Boehn, Henry Paul, William Knees and Theodore Ewoldt was appointed to make the necessary arrangements. An illustrated lecture on the best way to raise strawberries was another feature. A strawberry supper served at the conclusion of the meeting was a fitting sequel to the talk. The association is also planning sending representatives to the S. A. F. O. H. at Washington, D. C.

OUR READERS' VIEWS

Fruit Under Glass.

Editor Florists' Exchange:

Replying to Mr. Turner's letter in your issue of June 3, it is exceedingly interesting to find that he has kept such close track of my movements during the twelve or fifteen years I have been in this country as to be able to state that my experience has only been of a limited order. He may find that I have not been so slow as he imagines. Let me inform Mr. Turner that growing fruit by the ton in the Channel Islands is not such a rare occurrence as he may think. Mr. Turner says, "don't think what applies to England applies here." Why not? The fundamental principles of fruit growing are the same the world over, subject to a few minor changed conditions in every locality, which come naturally to practical men. Will he explain where this wide difference of treatment comes in, and on what material points it differs, as I certainly cannot see any from the articles he has written, or the advice he has given from time to time on this subject? If he maintains there is a material difference, will he explain how it is that well known growers who have realized among the very highest prices that have been paid for fruit in New York City, and who were growing before Mr. Turner came to this country, and on a far more extensive scale than he has grown, have so strictly followed the advice given by the late William Thompson, that it may be said they have carried his book about by day and slept with it under their pillow at night?

I most emphatically deny that there are any great differences in the treatment as carried out by up-to-date growers in England and up-to-date growers in America. Any one who has had any experience in forcing fruit under glass in England and in this country is thoroughly well aware that in the dull, sunless, and oftentimes smoky climate of England, when the sun is not seen for weeks, and where it is almost impossible to put on a chink of air for days together, it requires far more skill and attention and is far more difficult than in the frosty nights and bright, sunny days generally prevailing here. Forcing in the United States is a perfect pleasure, a perfect picnic, compared with the same work in England, and does not require half the brains, ability or experience; neither does it in the Channel Islands.

Does Mr. Turner mean to infer, if I or any other practical man were called upon to go to Central Africa, or even the North Pole, that, with the wide experience I have gained during the past thirty years, I could not meet and overcome these minor difficulties?

He says that he can see plainly that I do not approve of "his method of culture." Why his method, when I rejected it twenty years ago, to say nothing of others who rejected it long before, not only on the fan system, but also the long and short spur, upright and diagonal? I again warn readers of The Florists' Exchange to be cautious before taking up this rehashed and warmed up old system, unless they are in a position to make experiments; then, by all means, go ahead.

Mr. Turner is correct in saying that training the trees, as he advises, at right angles, is the fan system equally as though they were trained horizontally. He goes into figures to prove what I did not dispute or even mention—the area under the supposed system which I advocate, and he has no more idea than the man in the moon what system I do advocate or believe in, for I never mentioned any. All I did say was, "training the trees fan-shaped." Perhaps Mr. Turner is not aware that there are several systems under which they may be trained. As he has gone into figures to prove the difference in area, will he also go into figures and prove under which system the most light, air and sunshine are obtained, and give the results—three most important elements in successful fruit culture under glass. He goes on to say, "take a span roof house, such as ours, 25 feet wide, and you have nothing but a houseful of emptiness." Why, there are thousands of men proving the fallacy of that assertion every day, and hundreds of others only waiting for the opportunity to do so. He says he is not writing for the Channel Islands. There is no difference in the treatment accorded in the Channel Islands from that given in England, with the exception of firing and ventilation, and boys generally do these, not practical men. He advises me to mix with practical men and get acquainted with their methods. What methods? Methods that I learned twenty-five or thirty years ago? Show me something fresh, something new, and I will be the first to jump at it, but first tell me where to find it.

Mr. Turner refers to his trees carrying 250 fruits at three and a half years. It seemingly takes but little to please Mr. Turner. Did he ever read a book on peaches, written by Mr. Simpson, of Wortley Hall, England, the matter for which, if I remember rightly, came out in the columns of the "Garden" and was afterwards published in book form some 25 or 30 years ago—the best article on the peach tree ever written in the English language? Mr. Turner will not have any trouble in getting such trees as he refers to if he will follow the advice given therein. Of course, it is a little ancient; but so is Mr. Turner's present system.

I agree that Canon Hall is a noble grape, and the fact that good bunches of it have been grown is the best proof that they can be grown again. As I pre-

viously stated, I had a house under my charge, 150 feet long, devoted to this grape, to say nothing of other and smaller experiments. Why don't Mr. Turner go ahead and fathom the mystery of growing this grape? There is no glory in doing something that every one else can do. If he will accept it, I will give him a little advice to help him on the way: Throw away those old ideas, those relics of horticultural barbarism of marching into a house when the vines are in flower, with a camel's-hair brush under one arm, a rabbit's tail under the other, to tickle the bunches, an apothecary's measuring glass to measure the spots of water to be sprinkled on the floor, a full sized lumber chain to chain the thermometer down to a decimal part of a degree. Wipe out these old institutions, and you have at least started on the way to success.

In reference to my question, Can the bloom on grapes be restored after it has once been lost? Mr. Turner says he hesitates to give an opinion until he is further enlightened on the subject; then immediately follows by saying, "it can't be done," showing him to be a man who expresses an opinion and then proves it afterwards. I say it can be done, up to a certain stage of their growth. Did Mr. Turner ever go into detail as to what is the cause of bloom on fruit, of what it consists; whence it comes? I saw the whole subject threshed out by a man who made it his particular study, and who taught me more about a vine and its fruit than all the other gardeners I ever met. [Won't you please tell us all you have learned or know about this subject?—Ed.]

I note Mr. Tricker says that he has grown fruit under all systems for forty years over an extended area. Mr. Tricker rushes to the front with the usual "I told you so." Why did he not come to his friend's assistance before, and not lie quietly slumbering, leaving Mr. Turner to resuscitate this gold brick after years of hard study, hard work and disappointments?
H. J. CORFIELD.

Editor Florists' Exchange:

Having read Mr. Turner's articles from time to time, and also having had the pleasure of seeing the goods produced to perfection by him, there is no doubt that he is correct in what he advises in his able contributions. I am looking to Mr. Corfield to give us some valuable information on the subject, for it is by the writings of such experts that we, "the small fry," benefit.

Mr. Turner struck a good keynote when he wrote of a house full of emptiness. Take a viney. What an amount of space is lost! Would Mr. Turner give us a plan to get over this? Some 16 years ago I remember seeing a house that was rather odd, but came pretty near being an ideal one so far as space was concerned. It was 11 feet wide, 18 inches high in front, with a sharp hip span of 18 inches. The vines ran lengthwise of the house instead of the usual way. The bunches were easy to get at, and presented a beautiful appearance.
W. D. R.

Elberon, N. J.

Growing and Watering Roses.

Editor Florists' Exchange:

Of all the subjects connected with horticulture that have been written about by experts and others from time immemorial, the one of watering has always been found the most difficult to treat upon, and we never remember following any writer who could give explicit instructions as to how often the watering of any plants should be done.

While perusing a recent issue of "The Garden Magazine," however, we were more than delighted to see, in an article devoted to rose growing, that the amateur was informed that "eight times a day is not too often" to water the newly planted roses in the greenhouse during the most trying period of the Summer. The writer of the article in question admits that there are great differences of opinion on the subject of watering, and that there are hardly two growers who treat their plants alike in this respect. If the advice now given be correct, this statement will no longer hold true, for the instruction imparted as to how often to water is so simple, and can be so easily applied, that the practice should become general, and all growers will then treat their plants alike, so far as giving them water goes, providing, of course, the plants live to enjoy the treatment.

The same writer also recommends that, while the house is empty, if the benches be washed with lime and sulphur, the latter substance will help keep the roses free of mildew. This should be welcome news to our commercial growers, as mildew is very troublesome sometimes! The reader is also informed that the plants must never at any time be saturated. This hardly coincides with the "eight waterings a day" principle, as it would not seem possible to water a bench eight times in one day without saturating something.

The article also contains other information regarding the soil to use, how to plant, when to plant, etc., and the further one dips into it the more he becomes convinced that the writer thereof does not impart instruction born of practical knowledge of the subject, and that the advice he gives will only mislead any reader who attempts to follow it; that it is a pity that the editors of so-called "leading horticultural magazines"—a class of papers that the country is ripe for and appreciates, which can undoubtedly do a great deal of good—do not rely more upon practical men to give advice to their readers. There is a great

field for amateur horticultural papers in America, but a mess of useless verbiage will never teach an amateur how to grow a rose or how to have a window-box look nice with ferns from the woods, or with grevilles for flowering plants; or to plant a grape vine for its flowers and shade. And if the writers of such articles persist in giving out that kind of trash, the amateur gardener will soon find that he has got beyond the limits of the magazine writer, so far as plant culture goes, and will have no further use for instructions that do not instruct. AMUSED.

An Active Association.

Editor Florists' Exchange:

In the little isolated hamlet of Oceanic, N. J., on June 16 the Monmouth County Horticultural Society gave one of the best and most interesting rose and strawberry shows we have seen for some time. Except for notices in the floricultural papers, the modesty of the promoters went to extremes. The result was, the day after it became known what a delightful time had passed by in that sleepy of the sleepyest of places, there came near being a general indignation meeting. It turned out to be the biggest kind of a surprise, not only in the quantity and quality of exhibits, but when the berries and vegetables were auctioned off, world's record prices were broken. George Burnett had to pay \$1.10 for his plate of strawberries, and none of the many plates were sold for less than 60 cents each. The few, comparatively speaking, who were in attendance, were fired with the greatest enthusiasm and were determined to capture some of the exhibits at any price. Al Ricard's must have sold the seed of some stock there; he did nobly for the cause. Longstreet, with his prompter, Harry Kettel, could make it warm for our metropolitan auctioneers. Lettuce at 45c, each isn't bad, but they were almost worth it—they were grand. The only bad bargain was a bunch of a dozen young onions for 25c. It was just the infectious spirit of the exhibits, and the treasury of the society, as well as the experience of those present, benefited much by it. It would appear to us that societies to be successful must be attractive to the younger element, though "wisdom grows in older pates, the young ones keep alive the dates." The Monmouth County Horticultural Society is to be congratulated on what it is doing for horticulture. May its garden of endeavor suit and contain all the species that go to make greater success.
J. I. DONLAN.

Remedy for Currant Worm.

Editor Florists' Exchange:

Having seen an article in The Florists' Exchange on destroying the currant worm, I would state I have been using something much cheaper than what is recommended, it at the same time being a good fertilizer. It is also the best cabbage worm destroyer that I have used so far—and I have used a good many—and it is about the only thing that will keep the striped bug from killing the cucumber vines. This is no experiment; if every one were to make a trial of it, I think they could obviate quite a lot of worry and trouble. It can be bought of J. Scott Dickey, Lancaster, Pa. It is called Pulverized Tobacco Fertilizer. It will not injure the most delicate plant. Dusted on top, it will make the little black bugs sneeze when they get a dose of the stuff. I am not in any way connected, nor have I anything to do with the firm named.
D. N. REHR.

Lehighon, Pa.

Lilium Doeii.

Editor Florists' Exchange:

Lilium Doeii is a hybrid, and as you can see by the illustration (page 788, issue of June 17.), is a very good one, very even in height and a good bloomer. We have often seen in our fields a plant, grown from a 5 to 7-inch bulb, have 25 blossoms on it. This lily is about two to three weeks later than L. Harrisii, but much more healthy than it. L. Doeii will take the place of other longiflorum lilies in time, because it is healthier, and will give more flowers than any other longiflorum.
Bermuda. STEPHENS BROS.



Mrs. George A. Knight.

The wife of George A. Knight, of Mount Tolmie Nursery, Victoria, B. C., died last week at the Jubilee Hospital in that city. Cancer of the stomach was the immediate cause of death. Mrs. Knight was a native of Birmingham, England, aged 53 years, and had resided in Victoria for upwards of 26 years. Three daughters and two sons are left to mourn her loss. The funeral was held Tuesday, June 13. The very large attendance of friends and the many beautiful floral offerings testified to the esteem in which Mrs. Knight was held.

The American Peony Society

Second Annual Meeting and Exhibition, Held at Chicago, Ill., June 16 and 17, 1905. Next Meeting at Boston. C. W. Ward Elected President for a Third Term.

The second annual meeting and exhibition of the American Peony Society was held, as previously announced, in the banquet hall of the Auditorium Hotel, Chicago, Ill., Friday and Saturday, June 16 and 17, 1905.

The exhibition was a pronounced success, and demonstrated that as effective a display can be made with peonies as with chrysanthemums. Certainly no finer showing of this now popular flower was ever before made at an exhibition. The management of the affair was in the hands of J. B. Deamud, the Chicago wholesale florist, who carried out his duties in a most satisfactory manner. There were forty-two entries, an admirable representation of peony specialists, consid-

of our society are driven to exert their utmost energies in order to properly care for the year's business, which must be done practically in the two or three months of Spring.

Nomenclature Needs Straightening Out.

One of the crying needs of such an association as ours, is the surprisingly chaotic state into which the nomenclature of the peony has been allowed to degenerate; and if this association should do nothing else than straighten out, in a passable manner, the nomenclature of the peony, striking from the list duplicate or nearly duplicate and worthless varieties and render it possible for the trade to list fifty or sixty of the best sorts under names and descriptions, that would render their identification certain and make possible extensive deals between different peony growers, insuring the buyer of getting exactly what he wants whenever he places an order, and then should disband, it will have accomplished one of the greatest benefits to floriculture in general and amply repay for all the effort put forth and expense incurred in its organization and maintenance. Realizing the importance of this question of nomenclature, a competent nomenclature committee was appointed, and has already accomplished a long step toward straightening out the tangle which has been the source of annoyance and a bane to us all who have attempted to purchase peonies. I now refer to the extensive test plot

Value of the Peony as a Cut Flower.

For some years past the value of the peony for cut flower purposes has been recognized in the larger markets, such as Chicago, New York, Boston and other large cities, but up to the present time there seems to have been no organized effort made to place the most suitable varieties on sale, and a large proportion of the blooms offered seem to have been of the more common kinds, composed mostly of undesirable shades of color, the result being that the color value of the peony has suffered somewhat in popular estimation. In a few years all this should be changed, and a sufficient number of the most attractive sorts that are best suited for cut flower purposes should be grown to supply the needs of the market; and when this occurs, the demand for peonies for cut flower purposes will be largely increased. The difficulties of accumulating a large stock of the better varieties that shall prove true to name are great indeed, because owing to the chaotic state of peony nomenclature at the present time, no one is sure of getting what he orders, unless he is able to visit the peony fields in blooming time and identify and mark the plants he desires.

Some Experiences in Buying Peonies.

A somewhat extensive experience in purchasing peonies during the past ten years has developed some curious results. For instance, in one case a grower sent two absolutely different colors under the same name. This occurred with the peony Henri Murger.



Floral Treasure

Photos by J. F. Johnston



Rosea Superba

PEONIES IN THE COLLECTION OF COTTAGE GARDENS CO., QUEENS, N. Y.



Mme. de Verneville

ering that the present may be regarded as really the first exhibition given by the young society.

President C. W. Ward, of the Cottage Gardens, Queens, N. Y., occupied the chair at the business meeting of the society, and presented the following address:

President's Address.

It has now been two years since the organization of the American Peony Society, and to those who thought that there was no need of such a special society to care for the interests of the peony, the success of the present magnificent exhibition should be ample proof that the society was not only needed, but really wanted; for it is by such exhibitions as these that we who are devoted to the interests of any special class of floriculture really learn the possibilities that exist, when concentrated effort is made to develop all that may be contained in any special subject.

This is practically the first exhibition of peony flowers given under the management of our society, and what has been done here to-day can be much improved upon in future efforts, for by experience we learn, and the experience leading up to the staging of the present show has already taught us many things that will redound to our benefit in the future and will enable us to stage increasingly interesting exhibits as the years roll by.

No doubt the officers of the society will be somewhat sharply criticised for not providing essays to be read before this meeting, and while not attempting to offer excuses for such a lack, I wish in connection with an apology which we offer to members of the society, to say that, unfortunately, prior to the season at which the peony show is possible almost all of the members

at Cornell University, which has been planted with upward of a thousand varieties of peonies, all of which have been contributed by its members without one cent of expense being incurred by the society. It is a foregone conclusion that this attempt to straighten out the peony nomenclature, undertaken under the auspices of Professor John Craig, of Cornell University, whose careful and efficient work performed in other lines is ample guarantee for the thoroughness with which this work will be done, will be productive of great results and will place the entire fraternity under obligations not only to Professor Craig, but to Cornell University, and, last but not least, to the American Peony Society itself.

Peony Flowers Will Be Bought Under Name.

Fourteen years ago, when I first began growing carnations, they were usually sold upon the market under the designation of red, pink and white pinks. So far as I know very few varieties had at that period produced a sufficient impression upon the buyers to be asked for under distinctive names. However, soon after the formation of the American Carnation Society they began to be designated by special names, and, at the present time, retail buyers generally ask for the President, Enchantress, Ethel Ward or any other variety they wish to purchase, because thereby they identify those blooms which best satisfy their tastes and purposes; and it will not be long before this will be the case with the peony. At present Festiva maxima is known upon the New York market as the big white peony, and all other white varieties are simply designated as white peonies, but within a comparatively short period buyers will begin to call for Mont Blanc, Festiva maxima, Mons. Dupont, Marie Lemoine and other named varieties, because they will want to secure just the effect produced by those sorts and will be able to identify them under their proper titles.

The true Henri Murger is described as an immense bloom of the form and color of the Paul Neyron rose. The first year that the firm in question sent us Henri Murger we got a tall-growing, deep purplish crimson which as yet we have been unable to identify. The following year they sent us a very double creamy white sort which bore no resemblance either in habit, form or color to the one sent before. Neither of them resembled in any respect, either in habit, form, color or time of blooming the true Henri Murger. In another case a totally different peony in point of habit, form and date of blooming was sent, but of the same shade of color as the genuine variety ordered. The second year from the same firm came under the same name another lot which again did not resemble the true variety either in form, habit or date of blooming, but still of the same shade of color, and neither of these varieties resembled in any respect the true variety whether in form, habit or date of blooming, with the exception that the shades of color were very close to the true variety.

The Way to Work Up a Stock.

After an extensive experience in attempting to accumulate considerable stock of the specially desirable varieties, I have come to the conclusion that the only practical way to work up a true stock is to purchase a moderate quantity of the sorts from some source where you are able to identify them as true, and then, after blooming the plants three years, cut out all rogues which may develop and look after the propagating and division of the stock yourself; for I have found where you leave it to employees, they not having the same interest in keeping the stock clean that you have, will allow errors to slip in. A rogue once introduced in a stock frequently multiplies twice as rapidly as the true variety, the result being a large proportion of rogues when the stock has been con-

siderably augmented. In Holland the custom is to take up peonies and divide them every year or two, consequently the plants are never seen in bloom, and this mode of forcing the propagation is probably the reason why so many rogues are found in the general run of Holland peonies imported to this country.

The Peony in Landscape Work.

Undoubtedly our favorite flower is one of the most effective of all early flowering herbaceous plants for use in extensive landscape plantings. It not only can be used in masses, producing grand color results, effectively lighting up dark nooks and corners, but can also be interspersed among shrubbery, lending additional color to such groups. The plants when out of bloom are not very unsightly, as is the case with many other herbaceous flowers, but the deep fresh greens and bronzy greens of the peony foliage are maintained in general good condition throughout the greater portion of the season. The range of peony colors is unexcelled, comprising almost all the shades of pink from the most delicate flesh tints to the deepest shades. The same may be said of white, crimson, purple and amaranth. It is weak, however, in yellow, as we have comparatively few sorts that might be termed yellow, and these are generally light in color, the guard petals being almost invariably white, and it cannot be said that there is as yet any true solid yellow peony.

Landscape architects should learn to know the peony better, and should become acquainted with the finer and more desirable sorts, and should use them more extensively hereafter than they have in the past. I am quite certain that the peony often suffers in reputation by the use of common, undesirable colors in classes of work where good, clean complementary colors are needed and should be used; and the peony will never take its proper place in landscape work until landscapers in general become better acquainted with the more desirable sorts and learn to know them as well as to use them.

No Conflict With Other Organizations.

It is to be regretted that an unfortunate controversy arose over the formation of the American Peony Society, resulting in forming within the ranks of the Society of American Florists the S. A. F. Peony Association, or Peony Committee, as it has more recently been called, giving color to the idea that the Society of American Florists was opposed to and endeavoring to kill off our organization. I have been led to believe that it has been asserted by certain elements in the Society of American Florists that the formation of the Carnation Society, the Chrysanthemum Society, the Peony Society and other special associations would in the end destroy the Society of American Florists. This I do not believe to be true, and I cannot see any other result from the organization of such special societies than an increased general distribution of flower and plant knowledge among the general public, which in the end will result in increased accessions to the ranks of the Society of American Florists. It may be asserted with truth that the Peony Society has not now, nor will it have in the future, any conflict with any other horticultural body; but it has been formed for the purpose of accomplishing certain special work that can be done only by and with the hearty co-operation of all of those most vitally interested in the peony. Personally, I am well satisfied that our association will gladly contribute to the archives of the Society of American Florists, or to any other horticultural body that makes for the good of the florist craft in general, the results which it may accomplish in the way of straightening out peony nomenclature, or any other results which may be considered generally beneficial to the craft. Neither the Peony Society nor the S. A. F. Peony Committee has had as yet any great measurable effect upon the increase in the demand for peonies, for the reason that neither has, up to the present time, accomplished any definite advancement either in the improvement of the peony or the methods of its culture or its commercial handling. Aside from a few articles and cultural notes appearing in the press, nothing tangible has gone forth to the general public, and these articles have not, as a rule, emanated either from the Society of American Florists, or from the American Peony Society. Whatever results have been accomplished up to the present time have been largely through the work done by the peony specialists, who are giving



PEONY GIGANTHEA

In Collection of Cottage Gardens Co., Queens, N. Y.

Photo by J. F. Johnston



PEONY MME. DUCEL

In Collection of Cottage Gardens Co., Queens, N. Y.

Photo by J. F. Johnston



VIEW IN PEONY FIELD OF COTTAGE GARDENS CO., QUEENS, N. Y.

Photo by J. F. Johnston

their time to the culture of and investing their capital in peonies.

The experimental peony plantation at Cornell University has been made possible only by the voluntary contributions of the principal peony specialists in America and Europe, who are members of the American Peony Society.

Reverting again to the unpleasant things which have been said and done in connection with the formation of our society, it may well be said that all opposition and controversy should now cease. The work of the Peony Society has been so definitely cut out and clearly defined, that the few doubting and misguided spirits within the ranks of the Society of American Florists, who have heretofore frowned upon our organization, should now cease their antagonism and bend their efforts toward forwarding a work that will in the end redound to the general welfare and benefit of the entire florist craft, as well as of the nursery fraternity.

The Secretary's Report.

The present membership of the society is 36, not including two honorary members.

Since the last meeting the president has appointed two European representatives of the nomenclature committee—Mr. A. Desseret, Chenonceaux, France, to represent that country, and Mr. August Kocemmann, of Neides-Wailuf, Germany, to represent the latter.

During the past year I have had considerable correspondence in regard to peony lists with the object of completing our preliminary list, but there are some which are still to be received before it can be published.

The publishing of the report of 1903-1904 has also been delayed for unavoidable reasons.

In the matter of the incorporation papers, Mr. Lown, the attorney, reported to me that the certificate of incorporation was filed in Albany, N. Y., July 2, 1904, and a certified copy of the same was deposited at the New York county clerk's office on July 11, thereby completing the legal incorporation of the society.

The exhibition held during the meeting at New York was a fairly good show, there being about seven exhibitors, who staged many fine flowers, but there was a great lack of names, thereby reducing the value of the show.

C. W. Ward, Queens, N. Y., showed about 200 varieties, all unnamed, but under number. Frank Gould, with John J. Morris, Esq., Compton, Chestnut Hill, Philadelphia, Pa., showed about 63 varieties, all named. Andorra Nurseries, Chestnut Hill, Philadelphia, Pa., 20 varieties, all named. Siebrecht & Son, a large display of unnamed flowers, including about 32 varieties. C. Betscher, Canal Dover, Ohio, 40 varieties, all named. C. M. Wild, Sarcoux, Mo., about 10 varieties, and F. S. Rosenberg, Walden, N. Y., about 18 vases, unnamed.

A. H. FEWKES, Secretary.

Treasurer's Report.

Balance on hand June 4, 1904.....	\$175 50
Received from July 8, 1904, to date,	15 00
advance admission fees.....	39 00
Yearly dues.....	3 55
Interest.....	

Total.....\$233 05

EXPENDITURES AS PER SECRETARY'S ORDER.

Account of attorney.....	\$21 46
Account of chairman exhibition committee.....	2 52
	\$23 98

Balance to the society's credit at this bank.....\$209 07
J. H. HUMPHREYS, Treasurer.

The Exhibition.

The Chicago exhibition of the American Peony Society proved a grand success, and is a thorough vindication of the organization of that society. The showing of peonies surpassed the expectations of even the most sanguine member, and amply demonstrated that as striking and effective a display of peonies can be made as any chrysanthemum exhibition. The principal exhibitors covered themselves with glory with the handsome displays which they made when one considers that this is the first experience that they have had in staging an exhibition of peonies.

That the exhibit developed some striking faults goes without saying, but these faults were less noticeable than was expected.

The most striking display of all was that staged by W. A. Peterson, proprietor of the Peterson Nursery, of Lake View, whose exceptionally large and well-selected collection was shown to great advantage, even though this was the first experience that Mr. Peterson had with a flower show.

C. W. Ward's immense collection of 2,000 blooms made a most creditable appearance, considering that the bulk of his collection had to be picked ten days before the exhibition and shipped a thousand miles to Chicago under unfavorable conditions and held in cold storage until staged.

The exhibit of J. F. Rosenfield, of West Point, Neb., which had to pass through the same unfavorable conditions as that of Mr. Ward, attracted a great deal of attention and was universally praised. Mr. Rosenfield's vase of Floral Treasure ranked with anything shown in the hall.

Vaughan's Seed Store showed a fine collection,



ARTHUR H. FEWKES
Secretary American Peony Society



C. W. WARD
Elected President American Peony Society for a Third Term



WILLIAM A. PETERSON
Vice-Pres.-Elect American Peony Society

which gave evidence of considerable care in selection. His vase of Festiva maxima was especially fine.

E. A. Reeves, of Cleveland, Ohio, staged two exhibits that passed easily as among the finest grown peonies in the hall. His Grandiflora rubra was a wonder for size, form, length of stem and color, and stamp Mr. Reeves as an expert peony grower.

Mr. Peterson's vase of Mme. Ducler, which he exhibited under the name of Modele de Perfection, created a large amount of favorable comment, as also did his vases of Delicatissima and Livingstone.

The vase of Festiva maxima, Jules Elie, Mont Blanc and La Tulipe exhibited by Mr. Ward also demonstrated that magnificent results in decorative effect can be secured with peonies, even where the blooms are shipped long distances.

The collection of 130 varieties, the winner of the first prize for the largest and most complete collection, contained many sorts that attracted attention.

It would be useless to attempt any description of many varieties, there being at least several hundred upon the floor.

Taking it all in all, the first exhibition of the American Peony Society seems to have been a new feature in flower shows; and it was the consensus of opinion of the experts that the peony will from this time onward occupy the same position in floral exhibitions for the Spring season as the chrysanthemum does in the Autumn. If the chrysanthemum is entitled to be called the Queen of Autumn, the peony no less deserves the appellation of the Queen of Springtime.

The principal exhibitors were: Peterson's Nursery, Chicago; J. F. Rosenfield, West Point, Neb.; C. W. Ward, Cottage Gardens, Queens, N. Y.; E. A. Reeves, Cleveland, O.; W. W. Barnard & Co., and Vaughan's Seed Store, Chicago; Klehm's Nursery, Arlington Heights, Ill., and Jewell Nursery Company, Lake City, Minn.

The following are the names of the best twelve varieties exhibited by the Peterson Nursery, which captured the "Country Life in America" cup: Potsii alba, Modeste Guerin, Marie Lemoine, Festiva maxima, Couronne d'Or, Delicatissima, Golden Harvest, Livingston, Modele de Perfection, Marechal Macmahon, Princess Beatrice, Purpurea Delochii.

Notes.

The attendance of the tradesmen was not large, but the general public was well represented, especially on the second day.

Boston was selected as the next meeting place.

All the flowers on exhibition were presented to the Cook County Hospital.

Wm. A. Peterson declined to serve as president and C. W. Ward was elected to that office for a third term. Mr. Peterson was chosen vice-president; Arthur H. Fewkes, Newton Highlands, Mass., secretary, and J. Howes Humphreys, Chestnut Hill, Philadelphia, Pa., treasurer. E. A. Reeves was re-elected member of the Board of Trustees. The president was instructed

to appoint a finance, a press and an exhibition committees; the names of those constituting these several committees will be announced later. The present nomenclature committee was reappointed for the coming year. The members are: Professor John Craig, Cornell University, Ithaca, N. Y., chairman; C. J. Maloy, of Ellwanger & Barry, Rochester, N. Y.;

John A. Charlton, Rochester, N. Y.; J. F. Rosenfield, West Point, Neb. and A. H. Fewkes.

Manager J. B. Deamud was voted the thanks of the society for his efficient services.

The Ionia Pottery Co., Ionia, Mich., had a display of their pots at the exhibition.

The Visitors.

Among those in attendance at the show were: F. A. Baller, Bloomington, Ill.; W. C. Barry, Rochester, N. Y.; A. H. Fewkes, Newton Highlands, Mass.; Robert George, representing Storrs & Harrison Co., Painesville, Ohio; Eli Cross, Grand Rapids, Mich.; C. S. Harrison, York, Neb.; Miss Hubbard, Queens, L. I.; Harvey E. Klidder, Ionia Pottery Co., Ionia, Mich.; Mr. and Mrs. Fred Lemon, Richmond, Ind.; C. J. Maloy, Rochester, N. Y.; E. A. Reeves, Cleveland, O.; J. F. Rosenfield, West Point, Neb.; Elmer D. Smith, Adrian, Mich.; E. S. Slye, Ionia Pottery Co., Ionia, Mich., and C. W. Ward, Queens, N. Y.

inches, Grandiflora, Perfection, Rubra superba are

Officers of American Peony Society.

President C. W. Ward, of Queens, N. Y., who has been elected to preside over the affairs of the society for the third time, needs no introduction to the readers of The Florists' Exchange. Mr. Ward is as enthusiastic a peony grower as he is a carnationist, and it



Dorchester
M. B. Le Page
Humel
E. Verdier
Mary Hamilton

Nec Plus Ultra

Duquesdin

Dorchester

Perfection

Rubra Superba

PEONIES GROWN BY C. BETSCHER, CANAL DOVER, OHIO



Modele de Perfection
(Peterson)

Floral Treasure
(Rosenfield)
2d Prize

Livingstone
(Peterson)
1st Prize

Mons. Jules Elie
(Ward)
Not entered

CHOICE PINK PEONIES AT CHICAGO EXHIBITION OF AMERICAN PEONY SOCIETY

was chiefly through his instrumentality that the new organization was formed. The firm's collection of peonies is a large and comprehensive one.

Vice-President Wm. A. Peterson, Chicago, Ill., is the proprietor of the Peterson Nursery, Chicago. He was born in 1876, the son of the late P. S. Peterson, at the old homestead in Jefferson, now part of Chicago. When 18 years of age, Mr. Peterson had fitted himself to enter college, but, owing to the death of his father's right hand man, it was thought best for the son to enter the business at once. In 1895 he was made a member of the firm, and since the death of his father has been at the head of the concern.

Mr. Peterson is a born student. His library numbers some four thousand volumes, including rare first editions, old manuscripts, the oldest book printed in Chicago, as well as many Latin, French, German and Scandinavian works on horticultural and other subjects. To add to his knowledge, he has also traveled extensively in European countries. His private museum contains a very large collection of stone implements, gathered from near-by Indian village sites.

The young man is of stalwart build, six feet four in height. He belongs to the Union League, Chicago Athletic, Caxton and other clubs, and last year was elected director of one of the Chicago banks. To the horticultural world he is possibly best known by his scientific work among peonies, of which the concern has an extensive collection. The making of landscape plans is also given attention.

Secretary Arthur H. Fewkes, Newton Highlands, Mass., is also well and favorably known to our readers, as is Treasurer J. H. Humphreys, of the Andorra Nurseries, Chestnut Hill, Philadelphia, Pa.

The Awards.

Largest and best collection of varieties, one flower of each—First, C. W. Ward, Cottage Gardens, Queens, N. Y.; second, Vaughan's Seed Store, Chicago.

Collection of best twelve and most distinct varieties, six flowers each—First, Peterson Nursery, Chicago; second, Vaughan's Seed Store.

Collection of varieties in various shades of rose pink, not less than three nor more than six flowers each—Peterson Nursery.

Collection of varieties, salmon and flesh-colored, not less than three nor more than six flowers each—First, Peterson Nursery, Chicago.

Collection of white varieties, not less than three nor more than six flowers each—First, Peterson Nursery.

Collection of varieties, cream white and light yellow, not less than three nor more than six flowers each—First, J. F. Rosenfield, West Point, Neb.; second, Peterson Nursery.

Collection of crimson varieties, without stamens, not less than three nor more than six flowers each—First, Peterson Nursery.

Collection of crimson varieties, with stamens, not less than three nor more than six flowers each—First, Peterson Nursery.

Collection of tricolor varieties, including flowers with guard petals, collarette and center petals of different colors, not less than three nor more than six flowers each—First, Peterson Nursery.

Twelve specimen varieties, twelve blooms of each variety. "Country Life in America" prize. Silver cup—Peterson Nursery.

One hundred blooms Festiva maxima—Vaughan's Seed Store.

One hundred blooms pink, any shade—First, Peterson Nursery, variety Livingstone; second, J. F. Rosenfield, West Point, Neb., variety Floral Treasure.

One hundred blooms crimson—First, E. A. Reeves, Cleveland, Ohio, variety Lee's Grandiflora rubra; second, J. F. Rosenfield, West Point, Neb., with Seedling No. 206.

Honorable mention, awarded to C. W. Ward, Cottage Gardens, Queens, N. Y., for extensive collection of peonies; to Klehm's Nursery, Arlington Heights, Ill., for decorative display of peony flowers; to Vaughan's Seed Store for fine collection of hardy roses and Baby Rambler roses.

B. J. HAUSWIRTH,
CHAS. KLEHM,
E. A. KANST, } Committee.

List of varieties exhibited by Cottage Gardens Company, Queens, New York:

White and Yellow.—Couronne d'Or, Duc de Wellington, Duchesse de Nemours, Edulis Alba, Festiva, Formosa, Formosa Alba, Marie Lemoine (Calot), Sulphurea, Mont Blanc.

Creamy White.—Candidissima, Charlemagne.
Flesh White.—Alfred de Musset, Chrysanthemiflora, Mme. Forel, Mme. Loise Mere, Fragrantissima.

White.—Early White, Please White, Festiva maxima, Henri Murger, Humel Alba, La Vestale, Leon Legnay, Mme. de Verneville, Marie Jacquin, Mons. Dupont, The Bride.

Glossy Pink.—Madame de Bollemont, Mme. de Galhau, Mme. Forel, Mme. Muysart, Marc Maunoir, Ornement des Massifs, Souv. de Gaspard Calot.

Silvery Pink.—Mme. Ducel, Mme. Forel, Mme. Gessler, Mons. Jules Elie.

Salmon and Salmon Pink.—Asa Gray, Eugene Verdier, Van Dyck, Baroness Schroeder, Richardson's Dorchester, Richardson's Grandiflora.

Pink and Deep Pink.—Alexander Dumas, Alexandrina, Auguste Villame, Beranger, Buyckii, Claire Dubois, Clementine Gillot, Henri Murger, Henri Laurent, Louise d'Estrees, Mme. Benard, Mme. Camille Bancel, Mme. Chaumy, Mme. de Bollemont, Marie Deroux, Nobilissima, Pottii alba, Pres. de Montzey, Ville de Nancy, Cameron, Countess Sarah, Czarlina, Empress of China, Jenny Lind, Janice Meredith, Lady Bramwell, Peterson's No. 209, Rogue (very late dark pink), Rogue from Achillea.

Light Pink and Soft Pink.—Achillea, James Blanc, La Tulipe, Livingstone, Louise Renault, Mme. Bollet, Mme. Camille Bancel, Mme. Chaumy, Mons. Barrol, Octavie Demay, Philomele, Prince Imperial, Floral Treasure, Please No. 23, Princess Helen, Triomphe de l'Exposition de Lille, Virginie, Reine Victoria, Multicolore, Fragrantissima.

Lilac and Lilac Pink. Docteur Bretonneau, Mme. Lemoine, Mons. Boucharlataine.

Tricolor.—Alee de Jeanne, Carnea Elegans, Gloire de Charles Gombault, Jeanne d'Arc, La Tendresse, Lutea Plenissima, Paganini, Prolifera alba.

Violet and Violet Purple.—Adolph Rousseau, Atrosanguinea, Beute de Villecante, Comte de Paris, Delachei, Duchesse de Nemours, Edulis Superba, La Quintynic, Henry Demay, Lucie Malard, Mme. Forel Mlle. Renie Dessert, Mons. Paul du Ribert, Fulcherima, Rosea Magna, Souv. de l'Exposition du Mans.

Amaranth.—Clementine Mechin, Comte de Neipperg, De Candolle, Dr. Caillet, Emperor Nicholas, Mme. Bucquet, Pierre Dessert, Teniers, Meissonier.

Cherry Red and Currant.—Berthoz, Jules Calot, Mme. Lehon, Modeste Guerin, Souv. de l'Exposition universelle, Victor Hugo.

Crimson.—Atrosanguinea, Auguste Gauthier, Augustin d'Hour, Edward Andre, Etienne Mechin, Felix Crousse, Henry Murger, Modeste Guerin, Prince Imperial, Raphael, Admiral Creighton.

Peony Notes from Ohio.

Editor Florists' Exchange:

Earlier I had expected to get up a report on all sorts and have it printed for general circulation, but will hold it back until next year. In it I will describe every sort, etc., of our entire list, giving synonyms, and there seem to be many.

I expect to plant out in the latitude that will bring blooms about a week or ten days earlier, a very large area for commercial cut flower growing, planting only a few of the extra fine cut flower sorts. This with the very large orders we have on our books will absorb about all of the very best things we have and include about the list of extra good things.

I am not going to do much hybridizing, or seedling growing, because the field is very well covered with extra fine sorts now. The only room that I can see is for varieties very early or a few days later. I am going to try and get some crosses of Tenuifolia on the early sorts to get them a week earlier if I can; but that is about the limit. I see Harrison planted about 50,000 seeds; he will waste much valuable time, although he can sell the plants for mixed stock.

Owing to demandable attention, I did not make an exhibit this year at Chicago. I think next year I will make a display; although Boston is far away and some mighty good stock to go up against. But that does not alarm me in the least.

I still have some blooms, although the first were cut May 8 or 10. As to sorts, Dorchester I put at the top of the list; we had blooms of it perfect globes, 8x8 inches; Grandiflora, Perfection, Rubra superba are also very extra extra sorts, all as fine as the finest from all sources. Terry's Professor Budd is superior to Lemoine's La France; several other of his sorts can go into any company, however aristocratic.

I will add very materially to my stocks, but only the very extra ones, thus having the very best; and if there should ever be a slump, we will be equal to the position we must meet. We are following this rule with all our stocks; have unloaded all our lower quality gladioli, etc.

Canal Dover, O.

C. BETSCHER.



GENERAL VIEW OF EXHIBITION OF AMERICAN PEONY SOCIETY, HELD AT CHICAGO, ILL., JUNE 16-17, 1905

FOR THE RETAIL FLORIST.

Steamer Flowers.

New York City, among other things, has become the greatest of all transatlantic passenger depots, and in the commercial way of thinking, one might suppose that floriculture would keep step and be benefited immensely. Alas, such is not the case; in fact, and despite the enormous traffic, steamer flower trade has decreased 50 per cent. in the past fifteen years. This applies also to Boston and Philadelphia. Collectively, considering the vast throng of boats and peoples, and the tremendous increase of florists' establishments, certainly there are a great quantity of flowers used, but they are far from being commensurate with either the wealth or the number of passengers.

From a study of the number of flowers sent or ordered from the different cities to steamers sailing from New York, that city, Boston, Pittsburg, Philadelphia and Chicago lead in the order named; comparatively few, if any, come from or are ordered by the florists of the great cities South, West or Northwest. It appears to us that there are great possibilities in this line and much could be done to develop them by exhibiting special steamer baskets and boxes at the different exhibitions, and in the stores, and by an exchange of acquaintances and business short talks at the annual convention. A great many thousand of people from all parts of America periodically sail from New York who would have flowers and fruit sent to them were their relatives or friends prompted and assured that such could and would be done to the utmost satisfaction, not only in New York, but in almost any part of the world. Great good can only come from a better social and business intercourse among retail florists the world over. The day has not yet come when, the farther away, the sweeter the token of remembrance doesn't hold supreme with all peoples, and this particularly applies to Americans of the West and Northwest, and the telegraph code and quick mails and universal credit render excuse or apology futile.

As with school flowers, variety and quantity have a wide scope; even designs, too; but under certain circumstances the majority of designs are being discouraged unless where delegations are seeing some official or brother member off, in which case the society's badge, or motto, is usually made out in flowers or betimes, but becoming seldom, some design portraying the occupation or achievement of the voyager.

In the case where a delegation visits a florist and wants to order some intricate or inappropriate design, great care should be used to not scare away or divert into the winery the moneys first intended for flowers; the difficulties, or the seeming foolishness of the propositions, should not be concerns of yours. Many customers come to you with minds unchangeable; in their case, any attempt to convince them of the error of selection or a seeming exorbitant charge, either creates suspicion or entirely kills any desire for flowers even for future occasions. Such people are apt to some day change, but at times it is best to be silent and reasonable. Others come utterly indefinite except with a desire to send something; and here's where it's "all up to you," both subject and price. And though there may be temporary glee in a "soaking" price, it nowadays seldom fails ultimately to bear mighty bad fruit.

There are a great many erroneous ideas or opinions as to the disposition of flowers soon after leaving port. It is entirely unreasonable to imagine that an ocean steamer should be so-and-so to accommodate cumbersome floral designs, ill-smelling or decadent flowers, or the caprices or whims of impetuous travelers. Unlike the grave-digger, the steward has no market for old floral design frames, and over they go; but the flowers, not until they are a menace to health or their owner is too miserly to have them cared for below decks. Arrogance is intolerant anywhere, but it is above all out of place and despised—most often laughed at—on the steamer, where civility and some reasonable gratuity does much with the powers that are absolute.

As far back as 1886 we, through the courtesy of steamship officials and stewards, not only had fresh flowers served out to customers every day on the voyages over and back, but frequently sent flowers over in good condition to them in many cities in Europe. This is much more easy to do now, but, unfortunately, less done, on the quick going boats of today. There is no reason for this state of affairs; hot weather indifference on the part of the florist is mostly responsible. There will come a day, and not far distant either, when all first and second-class passengers will be given cut flowers every day on the seas, and in the Winter season American grown roses and carnations will be sold in the principal cities of Europe. A little energy and fair inducement could bring about the former innovation at once, for almost everything except this is done to please voyagers.

How to Put Up the Flowers.

In putting up flowers to be given out daily, we have found that a neat, light wooden or zinc box is best. It should be as small as possible and have slatted

partitions to better preserve the blooms. The boxes can be slightly elevated at one end, and have sufficient aperture at the bottom to permit the ice drip to escape. You need not bother about ice; a couple of dollars to the chief steward and a little instruction will attend to all that every day. Plenty of wax paper is good, and never mind tying them up in pretty and clumsy corsage bouquets. Just a rubber band at the bottom of each loose bunch; or have them entirely loose; for they may be put to several uses. Your business card, or small tag, and the date to be given out, is attached to each, and be careful to put them on the right ones.

Suitable Stock.

Sweet peas, lily of the valley, gardenias, carnations, roses, stephanotis, roses again and, lastly, orchids can be used in line, and this list can be reduced, or extended, to suit the exigencies of the case. You can arrange your flowers in small, separate pasteboard boxes and dispense with the other, but the small cost and the business-like appearance of the special box means a lot. Cattleyas or the great majority of orchids put in separate small, water-filled bottles, and lightly covered with wax paper, will travel finely over to any city. The steward should be cautioned against watering anything except the roses. Then again, where there is a party large enough to occupy a side table or a cross section of a main table in the dining saloon, the flowers could be used in a vase for the center and divided afterwards; or a dish of ferns or dwarf flowering plants could be sent for table decoration.



ILLINOIS STATE COAT OF ARMS IN FLOWERS

Artist, W. F. Gude, Washington, D. C.

A Chance for Basket Makers.

Our basket makers have an opportunity to introduce a special steamer hamper, with compartments for fruit, candy, cigars, medicine, liquors, and the top for flowers. Such may not be big and cumbersome, but concise and practical, with lock and key. The whole can be shut, or the lid may be half open with some flowers and fruit protruding. The automobile or picnic hamper improved should become a popular florists' design for steamer, dispensing with boxes and having the basket, if necessary, connected with the baggage on arrival. Combination hampers are popular with many people, but except for limes, lemons, oranges and greenhouse grapes, it is unnecessary to bother with fruit, mostly all kinds being supplied in plenty to first and second class. Candy, cigars and bottle stock are desirable, and you will capture many an otherwise exclusively fruit store order by suggesting such combination hampers, which you can supply entire.

Decorating State Rooms.

Many times comes an order to decorate some one's state room aboard. Especially is this the case in honeymoon trips. Such decorations should at all times be completed before the party's arrival. No heavy smelling or in-the-way material should be used. In all cases, such decorations are soon removed, and the simpler and richer they are, the better. Then again, flower vases are not included in the furnishings of state rooms, and here is where the steamer vase of flowers might be more generally introduced. Vases

are cheap, and some kinds of flowers can be kept in them all the way over, the room steward bringing them back in fresh water each morning.

The big, loose bunch of roses tied with broad ribbon, monogram, date and "Bon Voyage" painted on streamers, is a popular design. The ribbon is kept and brought back as a souvenir. We know of many cases where baskets have been brought back and where they are serviceable ones, such as can be used for scrap baskets—they have an increased value to many after an ocean voyage; therefore, where price permits, good, suitable, fancy baskets should be used.

There is and will be the shoddy spectacular man or woman who would rather not receive any flowers if they were not big and showy, and placed where all can see them and who, they are for, but such must be tolerated.

The vast majority of flowers to-day are sent in boxes and some comical looking boxes and tags may be seen among them. A good distinctive shipping tag is a very important thing, but a crazy covered so-called fancy box is far worse than the cheapest plain one. Almost 50 per cent. of the boxes sent to steamers have flower stems protruding from one end of the box; these flowers might almost as well be wrapped up in paper bundles. This unnecessary habit of cutting and spilling a box on the smallest pretense is ruinous to box, space—often to flowers—and at all times a menace. There is no sense in having extra long-stemmed flowers sent to the steamer, for it is a place where one likes to have no impediments, so the short or medium-stemmed flower is a better friend than the long one. The big corsage bouquet is out of date; so are ribbons on any of them. Better the loose or the bunch, no matter how small.

When to Deliver.

There are many ways to look at the delivery system. Some firms like to have their tags exhibited in the main saloon; others consider it the safest to put the flowers in the rooms. Certain it is that some flowers are exchanged or stolen, and the officials cannot be held responsible. Flowers sent in a paper box to stay all night in a warm room where they are not seen by those to receive them till next morning cannot be of much credit to anyone.

In the matter of filling orders for brother florists, plain boxes with the florists' own tag only should be sent; therefore, it is well to have a few tags always with those whom you intend to have execute your orders, be they funeral, presentation, hotel or steamer orders.

The correct time to deliver steamer orders is one half hour before time of sailing, and, where it is impossible to see the people they are intended for, the room steward is the proper person to take charge where there is no dining-room steward specially to receive them.

Develop the steamer flower trade, for it is important to all continents. The wireless telegraph may soon bring you advance orders. KINVARA.

Floral Offerings to Brides Banned from Altars.

Bishop Leonard, of the Episcopal diocese of Northern Ohio, says the New York American, has ordered printed a small pamphlet for the guidance of florists and of participants in cathedral weddings. In it the bishop prohibits the profuse use of flowers within the chancel rail and about the altar. The bishop holds that the tendency of late has been to conceal by floral decorations the solemn simplicity of the church, which is one of the most essential features of the marriage ceremony. Decorations must be confined to the walls, except those which the altar society may see fit to supply. No flowers at all will be allowed upon the altar. Even the profuse decoration of the church as a whole is discouraged.

Rev. Dr. Cyrus Townsend Brady, while he has had no official notification from Bishop Leonard with reference to the new ruling, expresses himself as being heartily in accord with it. "The sacred symbols of the church should in no wise be burdened with ornaments of flowers or decorated in any way. In my opinion, the function of the altar is holy, and nothing should be done which would interfere with this in the slightest degree. If decorations are to be used within the church at all, they should be placed upon the retable and at the sides of the altar, but never in such a way as to hide the simple vestments of the church."

[This seems sentimental rubbish. The use of flowers in any part of the church never can detract from the solemnity of a marriage ceremony. We question very much if the minds of the contracting parties or of those in attendance are just at that particular time dwelling on the "holiness" of the altar or the "solemn simplicity" of the church. They are more concerned with the future. Bishop Leonard should rescind his order. The simple message which beautiful flowers convey are more apt to lead the thoughts of those getting married from "Nature up to Nature's God" than even the reading of the ritual making the two one, or the bishop's benediction.—Ed.]

Illinois Coat of Arms in Flowers.

The design seen in the accompanying illustration was made by Wm. F. Gude, Washington, D. C., for General Logan's grave, on May 30. It represents the coat of arms of the State of Illinois, and was made principally of immortelles. It was considered quite a work of art by all who saw it. McC.

PULVERIZED SHEEP MANURE
FINE PULVERIZED AND FREE FROM DIRT OR WEEDS
Per 100 lbs. \$1.75
" 500 " 8.00
" 1000 " 16.00
" 2000 " 25.00
STUMPP & WALTER CO.
50 Barclay St., N. Y.

ASTERS FIELD-GROWN

Simple's Branching, white, pink, purple and lavender, 40c. per 100; \$3.50 per 1000.

CABBAGE Ready for planting Surehead, Flat Dutch, 85c. per 1000. Cash.

BYER FLORAL CO., Shippensburg Pa. Mention the Florists' Exchange when writing.

Alternantheras

P. MAJOR and A. NANA 2 in. Pots, \$1.50 per 100; \$15.00 per 1000

Ageratum, Gurney, 2 in. pots.....\$1.50 per 100.
Salvia, Bonfire, 2 1/2 in pots.....\$2.00 per 100.
Cash with order.

ERNEST HARRIS, Delanson, N. Y.

BEGONIA

Gloire De Lorraine

2 in. pots, \$15.00 per 100; 3 in. pots, very strong plants, cut back twice, \$25.00 per 100.

Turnford Hall

New, 2 in. pots, \$25.00 per 100.

Now Ready for Delivery

All these plants propagated from leaf-cuttings.

J. A. PETERSON
WESTWOOD, CINCINNATI, OHIO

SMILAX 2 in., \$1.25 per 100

All Fins 2 in. Stock	Routed Cuttings per 100	2 in. Plants per 100
Soma in Bloom		
Ageratum, Pauline, Gurney.....	\$0.50	\$1.50
Fuchsias, 5 kinds, in bud and bloom	.75	1.50
Paris Daisy.....		1.50
Alternanthera, Red.....	.60	1.50
Coleus, 12 best bedders., 1000,	\$4.00	.50
Smilax Seedlings.....	.30	

Asters, Simple's, white, pink, purple, crimson, \$3.00 per 1000. Fine stock. Roses, Ivory, Golden Gate, 2 in., \$2.00 per 100. Cash. Direct all orders plainly to
BYER BROS. Chambersburg Pa.

C. R. HILLS, Grand Rapids, Mich.

LA DETROIT, extra fine stock, white they last, 3 in., \$6.00 per 100.
CHATENAY, PERLE and SUNRISE, 3 in., \$5.00 per 100.
SMILAX, nice bushy plants, fine stock, 2 1/2 in., \$1.50 per 100; \$12.50 per 1000.

If it Comes from HILLS, it's All Right

TELEGRAPH

The Most Brilliant Scarlet Cerise Geranium in Cultivation.
Awarded four first-class Certificates of Merit and two Diplomas. Unsurpassed for bedding out. Indispensable for conservatory; strong, robust grower and profuse bloomer; the coming popular and leading standard. In order to have Telegraph thoroughly distributed we offer for next two weeks: Extra strong 2 1/2 in. plants, \$6.00 per 100; Extra strong 3 in. plants, \$8.00 per 100.
CASH WITH ORDER.

THOMAS DEVOY & SON, Poughkeepsie, N. Y.

ALL WELL-GROWN STOCK

ALTERNANTHERA, red, yellow, 2 in. pots.....	Per 100 \$2.50
ALYSIUM, double sweet, 2 1/2 in. pots.....	2.50
COLEUS, Firecrest, Queen Victoria, 2 in. pots.....	2.50
SALVIAS, 2 1/2 in. pots.....	2.50
VERBENAS, assorted, 2 1/2 in. pots.....	2.00
NASTURTIUMS, dwarf, assorted, 3 in pots.....	3.00
CANNA S, Brnbank, Queen Charlotte, Chas. Henderson, A. Bouvier, Italia, 3 1/2 in. pots.....	6.00

GERANIUMS, in bud and bloom, scarlet, dark red, salmon pink, white, rose, all double, 3 1/2 in. pots.....	8.00
HYDRANGEA OTAKSA, in bloom, 6 in. pots, 25c. each.	
ENGLISH IVY, 3 ft., 3 1/2 in. pots.....	8.00
" 8 ft. and over, extra strong 25.00	
HONEYBUCKLE, Japan Golden, monthly fragrant, 4 in. pots.....	8.00

JOHN M. COOK, Glenville Nurseries, White Plains Road, Tarrytown, N. Y.

Mention The Florists' Exchange when writing.

GERANIUMS

800 Double General Grant, 200 Poltevine, 2 1/2 in. to 4 in. pots, good order, \$8.00 per 100.
300 Salvia Splendens, 60 Silver Spot, 3 in. pots, extra fine, \$1.00 per 100.
Heliotrope, Petunias, etc., Cheap.

THEO. SEARLES, P. O. Box 303, Port Chester, N. Y.

Mention the Florists' Exchange when writing.

BEDDING PLANTS

Special Prices. Fine Stock.

GERANIUMS, 4-in. pots.....	\$6.00 per 100
SALVIAS, 2-in. pots.....	2.00 "
COLEUS, 2-in. pots.....	2.00 "
BEGONIAS, 3-in. pots.....	6.00 "
GAZANIAS, 3-in. pots.....	4.00 "
LOBELIAS, 2-in. pots.....	2.50 "

Cash with order.

ISAAC FRICKER EST., Poughkeepsie, N. Y.

Mention the Florists' Exchange when writing.

ASTERS Pot Grown

Hohenzollern, Cremos and dark blue, Simple's white, pink and purple, 2 in. pots.....	100	1000	\$1.00	\$9.00
Aster, from seed bed, Simple's, 3 colors; Hohenzollern, 3 colors; Truffaut, 3 colors; Victoria, 3 colors; by express.....			2.50	2.50
Cobea Scandens, 2 in.....			\$4.00	and 6.00
Dracena Indivisa, 3 and 4 in., 16 to 18 in.....			2.50	
Asparagus Sprenger, 2 in.....			2.50	
Salvia, dwarf and tall, 2 in.....			2.00	
Cosmos, early dwarf, 2 in.....			1.00	
Nicotiana Sandera, 2 in., 60c. per doz.				

CASH with order, please.

GEORGE J. HUGHES, Berlin, N. J.

Mention the Florists' Exchange when writing.

TO CLOSE OUT

250 Heliotrope, 4 in. bloom.....	3c.
200 " 2 1/2 in. bloom.....	1c.
600 Salvia, 2 1/2 in. bloom.....	1c.
50 Tuberous Begonias.....	5c.
400 Assorted Coleus, 2 1/2 and 3 in. bloom.....	2c.

Larchmont Nurseries

LARCHMONT, N. Y.

Mention the Florists' Exchange when writing.

CHRISTMAS PEPPERS, 2 1/2 in., \$2.00 per 100; \$17.50 per 1000.

PRIMULAS, about August 1. All varieties, 2 1/2 in., \$2.00 per 100.

ASTER PLANTS all sold; order earlier next year.

Half-Price

Salvias, extra fine, 3 and 4 inch, \$1.50 and \$2.00 per 100. Verbenas and Petonias, fringed, blooming, extra bushy, 3 inch, \$1.50 per 100. Alternantheras, red and yellow, extra bushy, 2 1/2 inch. Also Coleus, \$12.50 per 1000. Begonia Vernon, mixed and separate, strong, 2 and 3 inch, \$1.50 and \$2.50 per 100. French Cannas, mixed, strong, 4 inch, \$3.00 per 100. Geraniums, double Gen. Grant, Nutt, Poltevine, Richard Castellane, Perkins, strong, 3 inch, \$3.00 per 100. Cash.
WM. S. HERZOG, MORRIS PLAINS, N. J.

CYCLAMEN

Splendens Giganteum Hybrids
Finest strain in the world, in five true colors, extra well-grown plants, from 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000.
CYCLAMEN Giganteum Fimbriatum (the new fringed variety), from 2 1/2 in. pots, \$6.00 per 100; from 3 in. pots, \$8.00 per 100.
Satisfaction Guaranteed
PAUL MADER, East Stroudsburg, Pa.

JAPANESE CANE STAKES
BRIGHT, CLEAN and durable, 6 ft. long
Per 1000 \$5.00
" 2500 13.75
STUMPP & WALTER CO.
50 Barclay St., N. Y.

SMILAX

Fine Plants, 2 1/2 in. pots.....	Per 100 \$1.26
Aspidistra, var., 7 in. pots.....	each 1.00
Pansy Seed, July.....	Oz. 4.00

CASH or C. O. D.

JOSEPH H. CUNNINGHAM, Delaware, Ohio

Vegetable, Greenhouse and Bedding Plants

VEGETABLE PLANTS

CABBAGE in any quantity. Wimpingstadt, Early All-Head, Sure-Head, Succession, Early and Late Flat Dutch, Hollander, etc. \$1.00 per 1000; \$8.50 per 10,000.
PARSLEY Moss Curled, 25 ots. per 100; \$1.26 per 1000.
CELERY In any quantity. White and Pink Plume, Giant Pascal, Golden Heart, Boston Market and other vars., \$1.00 per 1000; \$8.50 per 10,000.
TOMATOES Acme, Beauty, Stone, Perfection, etc., 25cts. per 100; \$1.00 per 1000.
PEPPERS Bull Nose, Sweet Mountain, Ruby King, 25c. per 100; \$2.00 per 1000.

GERANIUMS

Telegraph, \$1.00 per doz.; \$6.00 per 100. Other good varieties from \$2.00 per 100; \$17.50 per 1000 up. Good stocky plants, 2 1/2 in. pots, for growing on. Send for descriptive price list.
Not less than five of any one variety sold. Cash With Order, Please. Send for Trade Price List. Write for Special Price on Large Lots of Anything in this List

Our Collection of **HARDY POMPON CHRYSANTHEMUMS** is acknowledged as second to none in the country. It won the American Institute Diploma at the New York Show last Fall, besides numerous Certificates of Merit and First Prizes at different Shows.

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

TOBACCO DUST
STRONG HAVANA DUST
25 lb. 75c. 100 lb. \$2.00
50 lb. \$1.25 500 lb. 9.00
Stumpp & Walter Co.
50 BARCLAY ST., N. Y.

BEGONIA

GLOIRE DE LORRAINE
Very healthy stock, 2 1/2-inch pots, \$15.00 per 100. Cash with order.

FRED GROSS, Bayside, L.I., N. Y.
Mention The Florists' Exchange when writing.

Surplus Bedding Stock

IN BUD AND BLOOM
Ageratum Stella Gurney, 3 in., \$3.50 per 100.
Lantana, 3 in., \$5.00 per 100.
Heliotrope, 3 in., \$3.00; 4 in., \$8.00 per 100.
Verbena, 2 1/2 in., \$2.50 per 100.
Phlox, 2 1/2 in., \$2.50 per 100.
Lobelia, 2 1/2 in., \$2.00 per 100.
Colors, best varieties, 2 1/2 in., \$2.00; 3 in., \$4.00 per 100.
Vinca Variegata, 2 1/2 in., \$2.50 per 100.
German Ivy, 2 1/2 in., \$2.50 per 100.
Alternanthera, green, red, pink, 2 and 2 1/2 in., \$2.50 per 100.
Alternanthera, Brillantesima, \$3.00 per 100.
Daisy Miller, 2 1/2 in., \$2.00 per 100.
Nine, Salicoid, 2 1/2 in., \$3.00; 3 in., \$6.00 per 100.
400 Meteor Rose Plants, 2 1/2 in. rose pots, \$3.00 per 100.

CHRYSANTHEMUMS

Lord Hopetoun, Ben Wells, Et. Bonfond, Cecil Cuts, Vivand-Morel, Wm. Duckham, Silver Queen, Mrs. Longly, Lily Montford, Kimberly, Percy Plambridge, Thirkell, White Bonaffon, Mrs. Chamberlain, C. H. Diederich, Dr. Enguehard, Chelton, Jds Barwood, S. T. Wright, Chevront. Rooted cuttings, \$2.50; 2 1/2 in., \$3.50.
Major Bonaffon, Mrs. Jerome Jones, Yellow Jones, Mrs. Robinson, F. S. Vellis, Mrs. Coombe, Clnna, Mrs. T. M. Pickett, Marie Liger, M. Donillet, Paul Salut, Dalekov, Ivory, Boccasse, Col. Powell, Mayflower, C. J. Salter, White Head, Dean, Mounier. Rooted cuttings, \$1.50; 2 1/2 in., \$2.50.
Cash, or C. O. D.

W. J. & M. S. VESEY, Fort Wayne, Ind.

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ASPARACUS

Plumose Nanus, 2 1/2 in. pote.....	\$2.00
Primroses, Chinese Obconica and For-beef, July 10.....	2.00

CASH or C. O. D.

Miscellaneous Plants

Ageratum, Stella Gurney, 40c. per doz.....	\$2.00	\$17.50
Alternanthera, yellow and red.....	2.00	15.00
Alyssum, Giant Double, 40c. per doz.; 200		17.50
Centaurea gymnocarpa.....	1.50	
Coleus, in good variety.....	2.00	15.00
Hardy Chrysanthemums, small-flowering varieties.....	2.00	17.50
Large-flowering varieties.....	3.00	20.00
Heliotrope, good varieties.....	2.00	17.50
Ivy Geranium, in var.....	3.00	
Lantanas, 5 varieties.....	2.00	17.50
Petunias, Dreer's double mixed.....	2.50	
" Dreer's superb single mixed 200		15.00
Plumbago, Capense, white.....	3.00	
Sage, Holt's Mammoth.....	2.00	15.00
Salvia, in variety.....	2.00	17.50
Smilax, strong.....	2.00	15.00
Swainsona Alba and Rosea.....	2.00	17.50
Vinca (Madagascar Periwinkle).....	1.50	

FURMAN BOILERS FOR GREENHOUSE HEATING



Valuable Catalogue on Modern Steam and Hot-Water Heating, mailed free upon request. Address

THE HERGENROTHER MANUFACTURING CO.

Dept. F. GENEVA, N. Y.
39 Cortlandt Street, NEW YORK

Furman Boilers have been awarded the Certificate of Merit at Five different Florists' Conventions. Have a record of 20 years. Over 26,000 in use.

SOLE AGENTS: E. K. BARR, La Crosse, Wis.
JAS. SPEARE S. & H. CO., 1014 Market St., PHILADELPHIA

Mention The Florists' Exchange when writing.

CLASSIFIED ADVERTISEMENTS

Cash with Order

The columns under this heading are reserved for advertisements of Stock for Sale, Stock Wanted, Help Wanted, Situations Wanted or other Wants; also of Greenhouses, Land, Second-Hand Materials, etc., For Sale or Rent.

Our charge is 10 cts. per line (7 words to the line), set cold, without display. Display advertisements in these columns 15 cents per line; count 14 lines to the inch.

No advertisement taken for less than 50 cents (35 words), except Situations Wanted.

If replies to Help Wanted, Situations Wanted, or other advertisements are to be addressed care of this office, add 10 cents to cover expense of forwarding.)

STOCK FOR SALE

GOLDEN GATE ROSES, good stock, 3 1/2-inch, \$4 per 100. Onaway Greenhouses, Bounton, N. J.
CHRYSANTHEMUMS, Jerome Jones, \$1.50 per 100, \$12.00 per 1000. Just right to bench. Cash with order, please. Louis Siebrecht, Floral Park, New York.

DRACAPNA INDIVISA, 5-inch pots, 20c. each; 4-inch pots, 10c. each. Sweet Alyssum, \$2.00 per 100. Nicotiana Sandera, \$1.00 per doz. Joseph Jones & Sons, Wappingers Falls, N. Y.

800 AMERICAN BEAUTY, 10c.; 2000 Bride, 4c.; 2000 Bridesmaid, 4c.; for quick sales, from 4-inch pots. A No. 1 stock. Cash with order. A. P. Smith, Madison, N. J.

BRIDE and Bridesmaid, from 4-inch pots, \$4.50 per 100. Fine General MacArthur, from 4-inch pots, \$10.00 per 100. Good, clean, healthy stock. Robert M. Schultz, Madison, N. J.

ASTERS—Simple's Queen of the Market and Comet, 5 colors, mixed, \$2.50 per 1000. Simple's separate colors, white, pink, rose and lavender, \$3.00 per 1000. All field-grown, ready to plant. Cash with order. A. & G. Rosbach, Pemberton, N. J.

STOCK WANTED

ADIANTUM FARLEYENSE and Hybridum, 500 plants of each. Address, with full particulars and price, L. L. W. Wilson, Hoyt, Pa.

SITUATIONS WANTED

SITUATION wished in greenhouses; experienced in carnations, chrysanthemums and pot plants. Good references. L. Geh, 150 Central Ave., Brooklyn, N. Y.

SITUATION wanted by AI grower of carnations, as fireman or assistant; 30, single; references. Address Florist, care Lenzen, 483 20th street, Brooklyn, N. Y.

WANTED—Position as working foreman; roses, carnations, chrysanthemums, violets, etc.; long experience in charge; age 42; first-class references. Commercial or private. Address B. F., care Florists' Exchange.

SITUATION wanted by first-class grower of roses, carnations, chrysanthemums, and general stock; age 35, single; No. 1 references; only first-class place wanted. Address B. G., care Florists' Exchange.

SITUATION wanted by florist, landscape gardener, grower, designer, salesman, etc. Life experience in charge of private and commercial places. German, 38, married, family; best references. Responsibility and fair wages wanted. Box 54, Spencer, Mass.

SITUATION wanted by a first-class rose grower, as working foreman; American Beauty roses a specialty; competent to take full charge. When answering this, please state all particulars, wages, etc. Good references. Address B. E., care Florists' Exchange.

SITUATION wanted, gardener, florist; single, middle age, Swiss-French; life experience in greenhouses and outside work; shrubs, fruit-trees, vegetable garden, landscaping, lawns; can take charge gentleman's place. Address Gardener, 136 West 26th St., New York City.

WANTED—Position as manager of wholesale or retail store, Western city preferred, by a young man of thorough experience in all branches of the trade. Can furnish the best of references as to character and ability. Please state particulars in first letter. A. C., care Florists' Exchange.

HELP WANTED

WANTED—A young man of some experience with carnations and chrysanthemums. Address Thus F. Seltzer, Utica, N. Y., stating wages expected.

WANTED—A first-class rose and carnation grower. Apply, stating wages and references, to A. J. Smith, Central Michigan Nursery Co., Kalamazoo, Mich.

WANTED—A good grower of roses and carnations, permanent place and good wages to man who understands his business. Address B. A., care Florists' Exchange.

WANTED—Young man, one who wishes to acquaint himself with greenhouse work; young German preferred; state age and wages; board and room. Otto Bourdy, Lowell, Mass.

WANTED—A young unmarried man of some experience to work in greenhouses. Please address, stating experience and wages, Gaskill's Greenhouses, 212 N. Todd Ave., Warren, Ohio.

WANTED—At once, a man who understands growing bedding plants and vegetables; good wages and board; steady place year round; single man preferred; apply Samuel Brown, Painesides, N. Y.

WANTED—By Miss Annie Wittvogel, Columbia, S. C., an experienced man for growing roses, carnations, chrysanthemums, violets, and bedding stock. State wages, steady place; if married man, have cottage for same. Apply at once.

WANTED—Young married man, as assistant on small commercial place in New Jersey, with experience in roses and carnations. Room, coal and wood, and good wages to a hustler; (no children, Protestant). Address B. C., care Florists' Exchange.

SALESMAN wanted to solicit orders for fine nursery stock; gardeners and others who have some knowledge of the business; steady employment and good pay. Address P. A. Keene, 1 Madison Ave., New York.

WANTED—A competent bookkeeper and office man familiar with the tree and plant business; good opportunity and permanent place for a man not afraid of work, and who wishes to advance. References required. Also a nurseryman of good habits; young, energetic man preferred. Faucher Creek Nurseries, Inc., Fresno, Cal.

WANTED

Salesman and Manager for a Nursery and Greenhouse business. Man acquainted with the trade ground vicinity of New York, to solicit orders for fine Nursery Stock, Fertilizers, etc. State fully where last employed, copy of references, age, wages expected, etc., or no notice given. Address B. H., care Florists' Exchange.

WANTED Young man for Seed and Bulb department. Apply giving age and experience to HENRY A. DREER, 714 Chestnut St., Philadelphia.

BUSINESS OPPORTUNITIES

FOR SALE—A small greenhouse with stock and tools, doing a good business; a good thing for little money; in city of 7,000. If looking for increasing business, try this. Address Putnam Greenhouses, Putnam, Conn.

A WHOLESALE and retail flower store in Providence, located on the principal street; doing a business from \$28,000 to \$30,000 a year. Will sell for \$3,000 cash. For particulars, address Lock Box 863, Providence, R. I.

FOR SALE—12,000 feet of glass, 8 acres of good soil, one 8-room house, with hot and cold water, bath and toilet; own water system; barn, etc.; close to P. R. R. in Chester County, Pa. Address B. D., care Florists' Exchange.

FOR RENT

11,000 feet of glass, 35 miles from New York, all stocked with carnations, chrysanthemums and bedding plants; also store in town nearby. Good wholesale and retail trade. Terms, \$750.00 cash and \$65.00 per month rent. Possession given at once. Owner cannot attend to it. Address B. L., care Florists' Exchange.

BUSINESS OPPORTUNITIES

TO RENT—In Greater New York, 25,000 feet of glass, 3 acres of ground, dwelling house and barn. Address A. E., care Florists' Exchange.

FOR SALE—5500 feet of glass, 50 miles from Cincinnati; good local and shipping trade in growing town. Address A. D., care Florists' Exchange.

TO LET—Store and five-room dwelling, three greenhouses, 2500 feet of glass, located near Fairmount Cemetery entrance, at Newark, N. J. A small good place. Inquire Charles Hornecker, P. O. Box 31, Springfield, N. J.

FOR SALE—About 6 acres of ground, 7-room house, large barn, windmill, 4 greenhouses, 18 1/2 x 70, 18 1/2 x 90, 14 x 90, 13 x 90, water and steam heat. All built last 5 years. Also 35 acres of fine ground, adjoining Fairview Cemetery. Address Box 65, Farmingdale, L. I., N. Y.

\$700 CASH buys established florist business near manufacturing center; six room dwelling house, barn and workshop; three greenhouses and four acres of land; with exceptionally good market for product. Address F. J. Ekmark, Real Estate and Insurance, Meriden, Conn.

MUST BE SOLD AT ONCE, to settle estate, nine greenhouses, each 100 feet, in fair condition; hot-water heating, with Hitchings boiler, comparatively new; six acres of cultivated ground; house of six rooms and barn, in good condition; artesian well; steam pump. Situated 2 miles from Ridgewood, N. J., and same distance from Paterson, N. J. Present mortgage can stand. Immediate possession. Address Mrs. Bingham, Ridgewood, N. J.

FOR SALE—Our entire plant, 10 greenhouses, about 25,000 ft. glass, nearly all 16x24 ins. in size, and double thick. Iron and cedar posts, cypress bars; business established over 30 years, but entirely rebuilt in last 10 years; heating, hot water under pressure. A large percentage of income is from cut flowers and floral work; entire products sold retail. Receipts all right, books open. Terms easy. We are only 20 miles from Massachusetts State line, with some of N. H. fine summer resorts near us. Address Ellis Bros., Keene, N. H.

AUCTION SALE

I will sell at public auction on the premises, rain or shine, Thursday, July 6, at 12 o'clock noon, the Humphrey Greenhouses in the City of Rome, N. Y. Has 15,000 square feet of glass, located on lot consisting of 165-foot frontage and 150 feet deep, with ten modern, well-equipped greenhouses, all stocked with palms, ferns, roses, carnations and general bedding stock. Houses are all heated with steam, are centrally located and doing a fine business. Also an 11-room dwelling, with modern improvements, and a natural gas well, which supplies the property with light.

Reasons for selling, sickness. For further information call or address JOHN DOWD, Auctioneer, 57 Arcade, Utica, N. Y.

MISCELLANEOUS WANTS

WANTED—To rent small place with one or two greenhouses, not far from New York or Brooklyn. Address, with particulars, to rent or sell, E. Morton, 149 Columbia Heights, Brooklyn, N. Y.

INVESTMENT wanted. Hollander, whose business brings him to the United States, desires to invest substantial amount, not exceeding 30,000 to 40,000 guilders, in first-class horticultural business, where he can be of service in buying Dutch bulbs and other similar products in Europe. Only first-class houses need reply. Address, giving general particulars and appointing interview, B. B., care Florists' Exchange.

WANTED TO BUY

greenhouses to be torn down. Mention price when writing. Address X. Y., care Florists' Exchange

THE AMERICAN CARNATION

Price, \$3.50

A. T. DE LA MARE PTG. & PUB. CO. LTD.
8 DUANE STREET, NEW YORK

GRAFTED ROSES

SURPLUS STOCK

Bridesmaid, Bride, Golden Gate, Chatenay, Uncle John, La Detroit, Liberty, fine plants, 3 in. and 3 1/2 in. pots, price, \$15.00 per 100.

On own roots, 3 in. and 3 1/2 in. pots, Chatenay and Uncle John, \$10.00 per 100.

Robert Simpson, Clifton, N. J.

Mention the Florists' Exchange when writing.

Nephrolepis Barrowsii

\$25.00 per 100.

BOSTON FERNS \$3.00 per 100.

SCOTTII " 10.00 per 100.

Strong 2 1/2 inch stock, from bench.

See display advt. in issue of May 13.

HENRY H. BARROWS & SON

WHITMAN, MASS.

Mention the Florists' Exchange when writing.

MISCELLANEOUS

FOR SALE—A bargain; 325 feet of 4-inch pipe as good as new, 5 years old, 8c. a foot. Come and see it. Will exchange for 2-inch pipe. F. B. Abrams, Blue Point, N. Y.

SECOND-HAND BOILERS—Several Lord & Burham New Style Boilers, almost new; also Hitchings and Weathered, complete in every way and tested before leaving shop. 100 boxes 12x18 double-thick American glass, clean and free from defects, securely packed in new glass boxes. William H. Lutten, West Side Ave. Depot, Jersey City, N. J.

FOR SALE

Greenhouse Material and Hot-bed Sash, milled of Louisiana Cypress. Try V. E. Reich's Oxford Putty; specially made for Greenhouse and Hot-bed Sash.

V. E. REICH

1429 Metropolitan Avenue, BROOKLYN, N. Y.

Mention the Florists' Exchange when writing.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs; other makes; new; cheap.

BOILERS New and second-hand, 1 second-hand steam; first-class condition; will heat 1000 sq. ft. glass, at \$35.00. 1 second-hand No. 17 Hitchings boiler, first-class, \$75.00.

PIPE Good serviceable second-hand, with Threads: 2-in., 7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 3 1/2 cts.; 1-in., 3 cts. New 2-in. Standard, full lengths, with couplings, 8 1/4 cts. ft. Old and new fittings and valves.

STOCKS and DIES New Economy, best made. No. 1 Threads, 1/2-in., 3/4-in., 1-in. pipe, \$3.00. No. 2 Threads, 1 1/4-in., 1 1/2-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New Sanders Pattern. No. 1 cuts 1/2-in.-1-in. pipe, \$1.00. No. 2 cuts 1-in.-2-in. pipe, \$1.30.

STILLSON WRENCHES New, 18-in., grips 1/2 in.-2-in. pipe, \$1.65. 24-in., grips 1/2 in.-2 1/2 in. pipe, \$2.40; 36-in., grips 1/2 in.-3 1/2 in. pipe, \$4.75.

PIPE VISES New, No. 1 Hinged, grips 1/2 in.-2 in. pipe, \$2.25.

GARDEN HOSE New, 3/4-in., guaranteed 100-lbs. pressure, 7 1/2 cts. per ft.; 1/2-in., not guaranteed, 4 1/2 cts. per ft.

HOT-BED SASH New, Cypress, 3-ft. x 6 ft., from 70 cts. up; glazed, complete, from \$1.60 up. Second-hand, as good as new, complete, at \$1.25 and \$1.00 each.

RADIATORS Good as new. 15 cts. per pipe.

GLASS New American, 50 sq. ft. to the box. 10x12, Single, at \$1.40; 10x12-12x12, B. Double, at \$2.40; 12x14-12x16-12x20-14x18-14x20-16x18-16x24, B. Double, at \$2.80; 16x20-16x24, B. Double, at \$2.90.

Get our prices on New Gulf Cypress Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Paint, Points, etc.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Avenue, BROOKLYN, N. Y.
Mention the Florists' Exchange when writing.

Review of the Market

NEW YORK.—The market is no longer flooded with peonies, and we could not find dozens where there were hundreds but a few days ago. It would seem but natural to expect that prices in roses and carnations would have recuperated somewhat when the peonies got scarce, but such did not happen; and we find that these flowers are running very little better than they did a week ago. Prices are not one whit improved—in fact, we do not believe that the general average will be as good as it was at that time.

Gladiolus are coming in from the South in extremely large quantities, and values have dropped right down almost to Midsummer figures.

There is a plentiful supply of candidum lilies; these, with *L. auratum* and longiflorum also in supply, make the market quite long on lilies just now.

Cattleyas are quite numerous, and prices remain fairly firm. Lily of the valley is in too big supply for the demand, and in addition to the price being weaker, the stock is accumulating in the hands of the dealers.

Sweet peas are very plentiful and, as a rule, go very slowly; there is, however, a good demand for any that are of choice color and have good long stems, such stock being by no means easy to find.

Iris is coming in in larger quantities, and there are many cornflowers, campanulas, syringas and other out door flowers being received daily. Cut sprays of Crimson Rambler roses are also a feature, and these seem to go as well as many of the indoor grown roses.

The trade in maiden-hair fern has fallen off considerably; and other green material is not moving any better than it did a week ago.

BOSTON.—Rather strenuous days these with the thermometer in the nineties; at least so sav the handler of flowers. All kinds of material are plentiful, in fact some sorts are very druzgy. Prices have reached the Midsummer figure, roses bringing anywhere from \$1 to \$6; while the best grades of American Beauty average 20 cents. General Jacqueminot are coming in plentifully from outside, and sell at from \$2 to \$6. Liberty are going fairly well and bring as high as \$2 per dozen for the best grades. Peonies are seen in abundance.

Carnations are plentiful and still of good quality; \$1 per 100 is the average price for the standard grade. Lilies are abundant; *L. candidum* being seen in goodly numbers. Sweet peas sell fairly well at 50 cents. Lily of the valley holds its own at \$2 and \$4. Green goods of all sorts remain without change. J. W. D.

ST. LOUIS.—The market was rather quiet last week; good choice stock was hard to obtain, first and seconds were too plentiful. Weddings, school closings and funerals have called for quite a quantity of white flowers. The local growers say we must have rain soon, or all outdoor stock will be cut off, especially sweet peas, which are very abundant at present, selling as low as \$1.50 per 1,000, and 20 cents in single 100 lots. Roses are coming in of rather poor quality; long American Beauty have very small flowers; \$2 to \$3 buys the best of them by the dozen. Bride and Bridesmaid, and other roses in this class run from \$4 to \$5 for choice and \$2 to \$3 for others. Lily of the valley had a big demand the past week, and buyers had no trouble to find some extra good stock in the market at \$3 to \$4 per 100. All greens are in plenty. ST. PATRICK.

WASHINGTON, D. C.—Business has been very good the past week, owing to commencement work; the prevailing prices obtained were satisfactory, considering the amount of stock on the market. American Beauty brought from \$2.50 to \$5; Bride, Bridesmaid, Golden Gate, Kaiserin Augusta, Victoria, Meteor and Liberty from \$1.25 to \$2.50 per dozen for the best. Carnations are about played out; they realize from 25 to 50 cents per dozen. Callas bring from 75 cents to \$1 per dozen. Gladioli are in demand at 50c. to 75c. per dozen. Sweet peas sell at 10c. to 25c. per bunch, and have been in demand all the season. Peonies, 75c. to \$1.25 per dozen; asparagus, \$2.50 to \$4 per 100 sprays; gallardias and coreopsis, 25c. to 50c. per bunch. M. C.

CINCINNATI, O.—The temperature is 94 in the shade, with not a glimse of a let up. Carnations are still to the front, keeping up the reputation of the flower business. American Beauty roses are off crop and will be for about ten days. No use quoting prices. There is very little good stock in the market to sell, although we have the demand, and could dispose of roses if we could get them. Sweet peas are coming in by the thousands, but the demand for them is limited. Everybody is trying to keep cool.

We had a call this week from J. B. Braidwood, a florist having 175,000 feet of glass at Colorado Springs, Col. He was not used to 94 in the shade. E. G. GILLETT.

INDIANAPOLIS.—The unusually warm weather of the past few days has caused stock to become scarce and to suffer in quality. As is customary in extreme weather, funeral work is plentiful. June weddings also are in keeping with this month, so that, all in all, the retailers are busy.

Many of the rose growers in this section have emptied their houses so that nearly all the stock is being shipped in. Much of this is unsatisfactory because of the bruises sustained by stock en route. The best of a poor grade of Bridesmaid and Bride bring \$4 to \$5 a 100. Mrs. Abel Chataway is, and there is much demand for it at \$3 per 100. A few La France and Souv. du President Carnot are in the market, at \$5 to \$8 per 100. A fair grade of Liberty is to be had, but this rose seems to open too quickly during such hot weather; the best bring \$10 per 100. American Beauty have experienced an unusual demand, at \$5 to \$25 a 100.

Field grown sweet peas are very plentiful and are a wonderful help at present; 20 cents to 25 cents a 100 is the customary wholesale price.

Good carnations are very scarce at \$2.50 per 100. A large majority of the carnations wholesale at \$1.50 to \$2 a 100.

Gladiolus are readily bought at \$5 per 100. Lillium auratum and Lillium candidum are in the market in quantities; the former bring \$15 per 100; the latter \$5. Summer flowers such as coreopsis, daisies, mignonette, forget-me-not and candytuff, because of the scarcity in other lines, have been disposed of with great satisfaction.

The National Meeting of the "Turnerbund" in the city this week has caused a heavy demand for decorative material, especially plants, some of the retailers having their entire stock out so that it is difficult to look after the regular trade properly.

Tomlinson Hall Market trade has been unsatisfactory during the past week. There is little stock left to be sold, and the market is lightly attended during such hot weather. I. B.

CHANGES IN BUSINESS.

LOOMIS, CAL.—The California Carnation Co. was sold to Messrs A. Mittig and H. McGowan on June 12.

LANCASTER, PA.—Frank A. Suter starts in the florist business here on July 1. His address is 740 Manor street.

MELROSE, CAL.—Chas. Gorman and E. Wagner have dissolved partnership. Mr. Wagner will continue the business.

HEMPSTEAD, L. I.—Alfred Funke, formerly of Evergreen, L. I., has purchased the greenhouse business of J. Sidenberg, taking charge immediately.

GENEVA, WIS.—H. A. Hanke has completed negotiations for a piece of ground here, on which he will build a greenhouse, and embark in the business.

SALT LAKE CITY, UTAH.—C. Cramer, the florist, has sold out his store fixtures and business to Miss Elizabeth N. Child, who has been his clerk for a number of years. C. Cramer Sons will continue the greenhouse business (corner Fifteenth South and Third East streets) wholesale and retail.

FIRMS WHO ARE BUILDING.

PAXTON, ILL.—W. Morgan, of Loda, has secured the Andrew Peterson greenhouse here, which will be torn down and a larger structure will be erected on the site.

FULTON, ILL.—The boiler-room and storehouse for Hill & McKenzie's new plant here are now finished. Work on the greenhouses will commence at once.

Printing.

We are outfitted to do everything in this line required by the florist, the seedsman and the nurseryman, from an envelope to the most stylish kind of a catalogue. Write us.

A.T. DE LA MARE PTG. & PUB. CO.
2 to 8 DUANE ST.
NEW YORK 1

BOWLING.

WASHINGTON, D. C.—The bowling team was out in force, and is practicing hard for the convention. The following scores were made:

Geo. Cook	165	172	179
Geo. Shaffer	159	168	168
Sam Simmonds	158	169	178
John Barry	149	146	168
Wm. Ernst	148	155	176
Harry Lewis	139	169	162

The ladies' bowling team is putting in some good work and expects to be able to give a good account of itself. The fair ones are practicing under the instructions of F. H. Kramer, whose reputation as a tutor has been established for years. M. C.

Bowling at De Soto, Mo.

Five members of the St. Louis Bowling Club went down to De Soto, Mo., on invitation of the Hibbert Floral Co., of that city, to roll three friendly games of ten pins on the Y. M. C. A. alleys. The boys left on the 5.30 Iron Mountain train and arrived at De Soto at 7.45. They were met at the depot by Mr. Hibbert and a delegation from the Business Men's League, and were escorted to the Commercial Hotel, where the members spent a restful night after the bowling. The bowling took place at 8.30, and the De Soto boys were the victors by 50 pins. The strangers did not seem to get the hang of the alleys until the last game, when they came with a rush, too late to overcome the big lead of the first two games. After the bowling, lunch was spread in the rooms. Short talks were made by Messrs. Hibbert and Beneke. The latter invited the De Soto team to St. Louis for the big bowling night in honor of Messrs. Weher and Miller, which will take place on Monday evening, September 4. The invitation was accepted. The match scores follow:

THE HIBBERTS.				Total
Hibbert	147	142	136	425
Hinchey	187	156	147	490
Price	134	200	139	473
White	164	159	151	474
Huskey	128	179	126	433
	758	836	699	2295

ST. LOUIS.				Total
Beneke	138	146	168	452
Beyer	148	150	183	481
Gerlach	134	93	124	351
Meinhardt	170	130	141	441
Ellison	138	172	210	520
	728	691	826	2245

ST. PATRICK.

Florists' Yacht Club, Waretown, N. J.

Commodore John Westcott, following his custom of the past four years, invited all members and friends of the above club to Waretown on Friday last, to open the club-house for the season, when, as usual, a very delightful time was spent. The party left Philadelphia at 8.20 a. m., arriving at Waretown Junction at 10.30 a. m. On arrival at the farm house, on the Westcott estate, an inspection of the cellar was first in order; then the garden crops and live stock came in for a look-over. Afterward the party repaired to the club-house on Barnegat Bay. Here all superfluous clothes were dispensed with and everyone looked around for comfort and ease. At 12.30 the bell rang, and all repaired to the club-house. All assembled in the sitting room, Robert Craig in a very appropriate speech, and in behalf of all present, handed to Mr. Westcott a marble mantel clock for the club-house, as a token of appreciation of his genial hospitality. Mr. Westcott accepted the gift in a few well chosen words, stating the pleasure it gave him to have his friends around him. Dinner was then served and was thoroughly enjoyed by all. In the afternoon, most of the party went out sailing, others played quito, while in another direction, hearts were trumps, etc. Fishing started on Saturday, and a sensational catch of a thirty-five pound channel bass was made. The fish was hooked by A. Y. Hanna and landed with the assistance of the Commodore. Some of the party returned on Saturday evening, while others remained until Sunday evening. Those present were: John Westcott, Wm. B. Westcott, Wm. F. Gude, S. S. Pennock, H. H. Battles, Robert Craig, R. W. Lucas, George Graig, H. F. Mitchell, C. H. Ericnerman, D. C. Donoghue, Wm. Graham, Robert Kift, George Anderson, John Burton, Wm. K. Harris, J. W. Dunham, George Redford, W. F. Ward, A. Hoegerle, George C. Watson, A. Y. Hanna, A. B. Cartledge and DAVID RUST.

CHICAGO.—The Florists' Club's grand convention rally and smoker will be held June 30, at 8 p. m. There will be special talks by prominent speakers, and the transportation committee will report on the trip to Washington in August. R. J.

St. Louis.

News Notes.

President J. C. Vaughan, of the S. A. F. O. H., and Mrs. Vaughan spent Monday among the St. Louis florists to have a social talk on convention matters. Mr. Vaughan invited a few of those interested to a dinner at Lippe's; among those present, beside President Vaughan, were: President Juengel, of the local club; President Halstead, of the Growers' Club; J. J. Beneke, of Committee on Transportation; Frank Fillmore, State vice-president; R. F. Tesson, director of S. A. F. O. H.; Henry Berning, Fred H. Meinhardt and Otto Koenig. Mr. Vaughan told a great deal of his western trip of four months, and many S. A. F. O. H. matters came up for discussion. State Vice-President Fillmore reported that he was hustling for members. A plan was worked out whereby the Chicago, St. Louis, Cincinnati, Louisville, Milwaukee, Indianapolis and Cleveland delegations would travel together on a special train to Washington, which would be known as "The President's Train;" this train also to pick up delegates to the convention en route. After a general talk the party broke up wishing President Vaughan a large attendance at the coming convention.

George M. Kellogg, of Pleasant Hill, Mo., called Tuesday. He was sorry he did not get in one day ahead in order to meet Mr. Vaughan. Mr. Kellogg came to look for help, which seems hard to get in his vicinity. He will spend two weeks in the East before the convention. ST. PATRICK.

CANADIAN NEWS

OTTAWA.—Spring business is finished. It has been much ahead of last year's. The demand for veranda-boxes has been nearly double that of other years, and 75 cents per foot was the regular price. Unfortunately for the florist, when the order was given, the customer, in most cases, wanted scarlet geraniums, and as that color was also in great demand for bedding, the plants were hard to get. The general demand for geraniums was very large, and although the stock was a big one, it is very difficult to pick up a dozen now anywhere; in fact, one florist had to send to Montreal for them. All good geraniums brought \$1.50 a dozen; in fact, C. Scrib brought them in the market at \$1 per dozen and readily sold them at \$1.50. Cannas were also in great demand at \$1.50 per dozen. Next came coleus and centaurea at 75 cents per dozen. The foregoing four articles fill a big part of the bedding orders. Verbenas sold well at 60 cents a dozen, and there was an increased demand for annuals and other plants. The annuals make good profit—15 picked out, in a small basket at 25 cents each. To sum up the trade, I can say that all are sold out, and at good prices. Where the demand for boxes is large it is good economy to have lots of vines in 3½ and 4-inch pots, as these take the place of three or four smaller ones and make much more show.

Trade in cut flowers has been very good. Carnations are still in active demand; also roses, and the quality has been very good. Early peonies are selling on sight at \$1 per dozen.

Planting out roses and carnations is now under way, and stock is looking well. The heavy rains were followed by a very hot spell, the thermometer sticking to the nineties and not going down many degrees at night.

The Horticultural Society had to postpone the June show for a week owing to the backward season, the roses not being out. E.

GO ON DO IT



GET OUR BOOKLET

THE WALKER PAPER AND TRAILER HOW TO SELL

ALL APHIS

IN A HOUSE FOR 10 CENTS

H. A. BETHOFF CO.

118 West 24, New York City

Cyclamen Plants Seed of only selected flowers and well built stock. None better. Once transplanted, \$2.00 per 100; \$18.00 per 1000. Twice transplanted, \$3.00 per 100; \$25.00 per 1000.

C. WINTERICH, DEFIANCE, OHIO Mention the Florists' Exchange when writing.

CANNAS Henderson's, Queen Charlotte, F. Vaughan, Austria, 4-in. pots, \$6.00 per 100. GERANIUMS, 4-in. pots, \$5.00 per 100.

J. C. SCHMIDT CO., Bristol, Pa. Mention The Florists' Exchange when writing.

GERANIUMS

Nutt, Gen. Grant and Poltevine, stocky plants, out of 4-in. pots, \$7.00 per 100.

SAMUEL COCKBURN & SONS Woodlawn, New York City Mention the Florists' Exchange when writing.

SALVIA SPLENDENS

A fine lot, about 2000, in 2 and 2 1/2 in. pots, at 2 cts. Cash with order.

Will exchange for Vinca Variegata for stock. H. M. WOUNDY, New Canaan, Conn. Mention the Florists' Exchange when writing.

Geraniums \$10.00 and \$12.50 per 1000.

Three acres planted for stock, rooted cuttings in any quantity after September 1.

I will guarantee them to reach you in good growing condition, and would like to book your order now. Send for list.

ALBERT M. HERR, Lancaster, Pa. Mention The Florists' Exchange when writing.

CLOSING OUT—Bargains

- Salvia, fine, 2 in., \$1.00 per 100
Acanthus, 2 in., 1.50 per 100
Ageratum, Blue perfection, 1.50 per 100
Oubera Scandens, 3 in., 50c. per doz
Dracena Indivisa, 4 in., \$1.00 per doz
Robusta Cannas, 3 and 4 in., 3.00 per 100.

ORDER QUICK. OASH PLEASE. WILLIAM KEIR, Pikesville, Md. Mention the Florists' Exchange when writing.

VERBENA

- Mammoth, 2 in., \$1.50 per 100. Per 100
Scarlet Sage, 2 in., \$2.00
Doubled Fringed Petunias, 2 in., 2.00
Vinca Variegata, 2 in., 2.00
Grevillea Robusta, 2 in., 2.00
Cosmos and Aster Seedlings, 50c. per 100
Cryptomeria Japonica, (extra fine) 2 in., \$3.00 per 100.

E. I. RAWLINGS, QUAKERTOWN, PA. Mention the Florists' Exchange when writing.

COLEUS

Stocky, from soil, Red and Yellow, 75c. per 100. Fancy, all very bright, are finest grown, 60c. per 100. Big plants

ALTERNANTHERA IMP. P. MAJOR

This new brightest red will take the lead. Retains its fine color all season. Bushy plants for stock, \$4.00 per 100. Order soon.

DANIEL K. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

GERANIUMS

S. A. Nutt, 3 in. pots, \$4.00 per 100; \$35.00 per 1000. 2 1/2 in., \$2.00 per 100; \$20.00 per 1000.

PETER BROWN

Lancaster, Pa. Mention the Florists' Exchange when writing.

SURPLUS STOCK

- 2500 GERANIUMS, dark red, scarlet, bronze, Silver Leaf, Mme. Salloré, 500 CANNAS, mixed.
CALADIUM ESCULENTUM, 4 in., 5c.; 5 in., 10c.
ROSE GERANIUMS, SALVIAS, HELIOTROPES, LEMON VERBENAS, PHLOX DRUMMONDI, 4 1/2 in., \$8.00 per 100.
CENTAUREA OYANOCARPA, ZINNIAS, PARQUERITE CARNATIONS, 2 in., \$2.00 per 100.
ASPARAGUS SPRENGERI, 4 in., bushy, 10c.; 2 in., bushy, \$2.00 per 100.
ASPARAGUS PLUMOSUS, 2 in., bushy, \$3.00 per 100.
ALTERNANTHERA, red and yellow, \$1.50 per 100.
3,000 ECHEVERIA SECUNDA GLAUCA, \$3.00 per 100.
300 FUCHSIAS, assorted, \$6.00 per 100.

CHARLES L. STANLEY, Plainfield, N. J. Mention the Florists' Exchange when writing.



Any person desiring information through the medium of the Question Box should send his full name and address, not necessarily for publication, but as an evidence of good faith. We pay no attention to anonymous communications.

Green Manure for Lawn.

(191) My employer has an idea that green manure from the horse stable, spread on the lawn in the Fall of the year, is beneficial to the lawn. To my way of thinking, it does more harm than good, but to satisfy him as well as myself, will you answer this question? Also state what you think is best to improve a lawn, supplied either in the Fall or Spring. R. L. M'L.

—It is not a good plan to put green manure on a lawn for the reason that where the manure lies the grass underneath is likely to be burned by the heat generated by the manure in the process of decay. Let the manure lie in a pile for a few months; and, for lawn purposes, it may be used with safety at any time of the year, though early in the Winter is the best time to spread it.

Bench Plants in Summer.

(192) I have two benches vacant from the first week in June to the middle of September. Could you suggest what I could grow on them in the line of cut flowers for the New York market? I must have the benches vacant by the middle part of September. Also give the botanical name of enclosed leaf. L. E.

—The only thing that could be recommended to fill the benches for such a short time would be decorative ferns. Buy some young stock of the new nephrolepis, grow it for all it is worth, and by the middle of September the ferns should be salable for decorative purposes.

The name of the plant the leaf of which you send is Farfingium grande.

Slant of Greenhouse Roof.

(193) Will three or four inches to the foot be slant enough for a glass roof? Sash bars will be only about seven feet in length. Also will 12-inch glass be wide enough? I want to grow pot plants and carnations in the house. W. A. P.

—Seeing that the length of the sash bars is but 7 feet, the shallow pitch mentioned will do well enough. In times of heavy snow it will no doubt be found necessary to scrape off the snow at times, but that will not be much inconvenience. Twelve-inch glass will be about the best width that could be used; with wider glass there would perhaps be trouble when the snow lay on a few hours. Pot plants and carnations will do all right under such a roof.

Greenhouse Building.

(194) Which is the best style of greenhouse for Winter cut flowers, carnations especially—3/4 span running east and west, or even span north and south; a ridge and furrow house? Would you improve connecting two 3/4 span houses as follows: the north wall, 7 feet; ridge, 12 feet; gutter plate, 5 feet; south ridge, 10 feet; south wall, about 3 feet? If so, about what pitch to the roof would you recommend? Would snow be apt to lie in the valley of such a house? How should drop circulation be arranged; I cannot go very deep with furnace pit? A SUBSCRIBER.

—I have seen first-class carnations grown in all styles of houses. A great deal depends on the best lay-out of your ground, whether you build even-span or 3/4 span. The best carnations that the writer ever saw were in an even-span house. The real question of aspect could best be settled by the grower, as that is a question more for him, and not properly the heating engineer. I hope that some of our lead-

ing growers will talk upon this question. From experience, the writer would not suggest building two houses connected in the manner described. Snow would collect in the valley; and, besides, the long span in the south house is too low. Separate your houses—that is, leave an open space of at least 8 feet. A good plan for a carnation house is even span—25 feet wide, 12 feet ridge, 5 feet at gutter or eaves. Have a running line of glass 2 feet deep along both sides. The sides inside can be used as path; that is, no benches put up against the sides. A house such as the above would contain three good-sized benches. You do not state how deep you can make the boiler pit, so I cannot give all the information desired. Heating plants of this kind require more boiler power than usual and also a greater number of heating pipes in the houses, for the circulation is less rapid. I would suggest that you determine the amount of glass you will erect, and then send us full particulars, when we can answer the question of heating fully. U. G. SCOLLAY.

Rust on Chrysanthemums.

(194) I send you a diseased chrysanthemum leaf. Please tell me what the trouble is and what remedy to apply. T. K. L.

—The chrysanthemums are affected with rust. We give below a reliable English remedy which, if used, will no doubt remove the disease:

"Spray the under part of the foliage with a dressing composed of the following ingredients: half-pound each of sulphur, soft soap, soot, and lime. The lot should be boiled for half an hour in one gallon of water; a half-pint of kerosene should then be added and the mixture allowed to simmer for a minute or so, care being taken to prevent it from boiling over. The dressing should be allowed to stand until it gets clear, and may be kept in bottles. A quarter of a pint of the dressing may be used to a gallon of water. If, however, the fungus is very bad and has obtained a hold on the plant, double the strength can be used without injuring the chrysanthemums."

ASTER PLANTS

Queen of the Market, Semple's Branching, fine plants, 40 cts. per 100; 300 for \$1.00; \$2.50 per 1000. J. C. SCHMIDT CO., Bristol, Pa. Mention the Florists' Exchange when writing.

CARNATIONS

20,000 fine, strong plants, from late, ready to plant, now hardened off outside: Queen Louise, \$20.00 per 1000; Joost, \$15.00 per 1000; Prosperity, \$2.00 per 100. 100 or over at 1000 rates. Cash, please, or C. O. D.

BENJ. CONNELL, West Grove, Pa. Mention The Florists' Exchange when writing.

SEASONABLE STOCK

- Ageratum, 2 vars., 2 1/2 in. pots, \$2.50
Alternanthera, 2 1/2 in. pots, 2.50
Coleus, 2 1/2 in. pots, 2.50
Cappas (Ogar Plant), 2 1/2 in. pots, 2.50
Dracena Indivisa, 4 in. pots, 10.00
German Ivy, 2 1/2 in. pots, 3.00
Grevillea Robusta, 4 in. pots, 7.00
Marguerite, yellow, 4 in. pots, 6.00
Marigolds, 1.00
Mesembryanthemum, 4 in. pots, 6.00
Mignonette, 4 in. pots, 1.25
Pansies, extra fine, 2 1/2 in. pots, 1.25
Petunias, single, 2 1/2 in. pots, 2.50
Rose and Scented Geraniums, 4 in. pots, 6.00

S. S. PECKHAM, New Bedford, Mass. Mention the Florists' Exchange when writing.

English Ivy

4 in., 2 plants in a pot, \$7.00; 2 1/2 in., \$2.50; English Ivy Variegated, 2 in., \$2.00. Vinca Var. Major, 2 in., \$1.75. Rooted cuttings, 75c. German Ivy, 2 in., \$2.00. Glechoma, 2 in., \$2.00. Sweet William, 2 1/2 in., \$2.00. Coleus, Golden Bedder and Verschaffelti, Verbenas, 2 in., \$2.00 per 100. SEEDLINGS, Galliardia, gr. B., mixed sweet William, double mixed; Cosmos, tall; mixed; Hollyhock, mammoth; extra choice mixed; Pansy, extra choice mixed; Aster, Imp. Victoria, blue; Aster, Imp. Victoria, White, 25c. per 100. Cash on O. O. D.

J. H. DANN & SON, Westfield, N. Y. Mention the Florists' Exchange when writing.

MAMMOTH VERBENAS

from 2 1/2 in. pots, in bud and bloom, \$1.00 per 100; 500 for \$3.50. Star Petunia, 3 in., \$2.00 per 100. Asparagus Sprenger, 2 1/2 in., \$2.00 per 100. Plumosus, 3 in. pots, \$5.00 per 100. Aster, Daybreak and Purty, 50 cts. per 100; Invincible, 40 cts. per 100.

J. S. BLOOM, Riegelsville, Pa. Mention the Florists' Exchange when writing.

POINSETTIAS

Fine stocky plants, July and August delivery, 2 1/2 in., \$5.00 per 100, \$50.00 per 1000; 3 in., \$5.00 per 100, \$75.00 per 1000. Cash or satisfactory references.

BAUR FLORAL CO., Erie, Pa. Mention the Florists' Exchange when writing.

ARNOTT'S COMPLETE SOLUBLE PLANT FOOD

The only perfect substitute for, and away ahead of liquid manure. Clean to handle. Odorless. Sample package mailed free, 25c. Used by florists all over the World.

THE ARNOTT CHEMICAL CO. 114 Victoria Street, TORONTO, Canada. Mention The Florists' Exchange when writing.

GERANIUMS

4 in. pots, \$8.00 per 100. Salvia Splendens and Bonfire, 3 1/2 in. pots, \$4.00; 2 1/2 in. pots, \$2.00 per 100. Centaurea Candideissima, 2 1/2 in. pots, \$3.00 per 100. Achyranties, 2 1/2 in. pots, \$3.00 per 100. Primula varia, strong clumps, \$3.00 per 100. Fankia variegata, 3 to 4 pipe to clump, \$6.00 per 100. Blue Hydrangeas, from 6 in. pots to 12 in. tubs for Summer flowering. Prices on application. English Ivy, 5 to 6 ft. 4 1/2 in. pots \$15.00. 4 ft. 4 in. pots, \$12.00. 2 and 3 ft. 2 1/2 in. pots, \$3.00 per 100.

JOHN RECK & SON, Bridgeport, Conn. Mention the Florists' Exchange when writing.

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Mention The Florists' Exchange when writing.

GERANIUMS In Bud and Bloom

S. A. Nutt, Besante Poltevine, La Favorite, Brandt, E. Brett, several other varieties, \$4.00 per 100; \$50.00 per 1000. Fuchsias, in bloom, 4 in. pots, \$3.00 per 100. Heliotrope, in bloom, \$8.00 per 100. Salvia, in variety, \$5.00 per 100. Cannas, Queen Charlotte, green leaved, and Robusta, red leaved, \$8.00 per 100. English Ivy, 3 in. pots, \$3.00 per 100. Feverfew, 2 1/2 in. pots, \$2.50 per 100; 4 in. stock, \$4.00 per 100. Blue Lobelia, 2 1/2 in. pots, \$2.50 per 100. Double Petunias, 4 in. pots, \$6.00 per 100. Hydrangeas, 4 in. pots, \$8. per 100. Coleus, rooted cuttings, Golden Bedder and Verschaffelti, 60c. per 100; \$5.00 per 1000; 2 1/2 in. pots, \$2.00 per 100.

At above prices the selection to remain with us. Cash must accompany the order.

J. E. FELTHOUSEN, Sohencotady, N. Y. Mention The Florists' Exchange when writing.

SMILAX SPRENGERI

Well grown carefully packed plants in any quantity. \$1.50 per 100; \$12.50 per 1000

Well grown carefully packed plants in any quantity. \$2.00 per 100; \$15.00 per 1000

150,000 TO SELECT YOUR ORDER FROM Plumosus-Deflexus-Decumbens-Pansies-Geraniums

SEND FOR SUMMER PRICE LIST ALBERT M. HERR, Lancaster, Pa. Mention the Florists' Exchange when writing.

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Mention The Florists' Exchange when writing.

Commencing Monday, June 26, we will close at 6 P. M.

Carnations, Kaiserin and Sweet Peas PHILADELPHIA CUT FLOWER CO. 1516 and 1518 Sansom St., Philadelphia, Pa. Store closes at 6.00 P. M., until September 16. Saturdays at 1.00 P. M.

CANDIDUM LILIES and PEONIES for Weddings and Decorations. Philadelphia Wholesale Flower Market 1235-37 Filbert St., PHILADELPHIA, PA.

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NEW CROP FANCY and DAGGER FERNS Special Quantity Prices on Application E. A. BEAVEN, Evergreen, Alabama

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CALL ON EUGENE BERNHEIMER FOR PROMPT DELIVERY ON Carnations, Roses and Spring Flowers 11 South 16th Street, PHILADELPHIA

SOUTHERN SMILAX Choice stock, full weight, 50-lb. case, \$7.00; 25-lb. case, \$3.75. GALAX—Brilliant bronze or green, selected, \$1.00 per 1000; \$3.75 per 5000. LEUCOTHE SPRAYS—Green or bronze, 90c. per 100; \$7.50 per 1000. Sphagnum Moss—Large bale, \$1.75; by freight, \$2.00. Green Sheet Moss—Per dbl. sack, \$2.50. All Kinds of Florists' Supplies. L. J. Kreshover, 112 West 27th Street, New York

SPHAGNUM MOSS Fresh and clean, shipment direct from the swamp; 5-barrel bale, \$1.25; 3 bales, \$3.25; 6 bales, \$5.00. Packing moss, 10 bales, \$7.50. Cash with order. H. R. AKERS, Chatsworth, N. J. Mention The Florists' Exchange when writing.

MICHIGAN CUT FLOWER EXCHANGE WM. DILGER, Manager FANCY FERNS, \$1.50 per 1000. DAGGER FERNS, \$1.50 per 1000. 38-40 Miami Ave., Detroit, Mich. Mention The Florists' Exchange when writing.

Blake's Lever Clip FOR FASTENING STAKES TO THE CROSS WIRE PATENTED SEPT. 23 1902. They never slip and are a great saving of both time and money. EVERY GROWER SHOULD TRY THEM AND BE CONVINCED Price, \$1.75 per 1000 Send for free samples. B. S. BLAKE & SON, ROCHESTER, N.Y. 156 Linden Street BRANCH OFFICE, 26 BOERUM PLACE, BROOKLYN, N.Y. Mention The Florists' Exchange when writing.

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FERNS Fancy or Dagger, new crop. No. 1 stock, only 75c. per 1000. Fine quality Laurel Blossoms, very fine pink shades, 50c. per large bundle. Galax, Brilliant Bronze or Green, 75c. per 1000. Use our LAUREL FESTOONING for your June decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application. We make it daily, gathered fresh from the woods. Hand-made, full sizes, 4c., 5c. and 6c. per yard. Once used, always used. BRANCH LAUREL, 35c. per large bundle. PRINCESS PINE, by the pound, or made into festooning if desired.

Tell us your wants: we will do the rest. Telephone and telegraph orders will receive immediate attention. MILLINOTON MASS. Telephone Office: New Salem, Mass. Mention The Florists' Exchange when writing.

HARDY CUT DAGGER AND FANCY FERNS

\$1.50 and \$2.00 per 1000. WILD SMILAX, \$4.00 and \$7.00 per case. GALAX, New crop. Green and bronze. \$1.00 per 1000. Headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters; Immortelles, Cyans Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc. LAUREL FESTOONING, 5c. and 6c. per yard. HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass. L. D. Telephone, Main 2618. Mention The Florists' Exchange when writing.

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1 1/2-inch Letters and Figures.....per 100, \$2.50 2-inch Letters and Figures..... " 2.50 2 1/2-inch Letters..... " 3.00 Add 10c. per 100 on 2 and 2 1/2-in. Letters if by mail 1161-66 W. C. KRICK, Greene Ave., Brooklyn, N.Y. Mention The Florists' Exchange when writing.

New Bedford, Mass.

Business the past week has been very good, some large funeral orders having used up most of the stock. Roses coming into this market are of poor quality. Most of the growers have finished planting their young stock. Some good carnations are still seen. Fair Maid easily leads all of them. This is the best money-making carnation in this section, surpassing even that grand variety, Enchantress. Young carnation plants are looking fine here, good rains recently having helped them considerably. HORTICO.

Worcester, Mass.

The members of the Worcester County Horticultural Society and their friends were the guests of President O. B. Hadwen at "Magnolia," his home here, on Wednesday, June 14. The many interesting specimens on the grounds were inspected and greatly admired. At the weekly show of the society, held Thursday, June 15, E. J. Shaylor, of Wellesley Hill, Mass., exhibited between 80 and 90 varieties of peonies. George McWilliams, Whitinsville, showed a specimen of Lilium philippinense, which attracted considerable attention.

South Bend, Ind.

End of a Rate War. A flower rate war which has been in progress in South Bend for some time came to an abrupt ending to-day, June 13, says a local newspaper, when all of the florists operating in this city came to an agreement and decided upon a uniform scale of prices. Until further notice roses may be purchased at all the floral stores at the rate of \$1 per dozen. The price on carnations was fixed at 50 cents per dozen. Those entering the agreement are the South Bend Floral Company, Treanor & Rettig, August F. Beyer and Kinyon Bros. A deal was also arranged whereby Wednesday of each week will be observed by the various stores as special sale day. At these prices the flowers will not be delivered, however, or made up into designs, and no discount will be allowed. The following discounts have been agreed upon for the standard price lots: 100, 11 per cent.; 250, 15 per cent.; 500, 20 per cent.; 1,000, 25 per cent.

There has been considerable rivalry among the florists of this city lately, which culminated last Sunday in roses and carnations being offered as low as 10 cents per dozen.

Oceanic, N. J.

Recollections of a Boston Trip. The writer paid a visit to Boston last week. The Boston park system is really grand. The Public Garden is kept more like a private place, and we saw there a bed of rhododendrons, second to none.

We went through Welch Bros.' wholesale establishment, and were shown some beautiful Souvenir du President Carnot, Golden Gate and Ivory roses. There were at the time about twenty thousand carnations in the refrigerators. This firm's average receipt of carnations is thirty thousand a day. We saw very few Mrs. T. W. Lawson, as light colors are preferred. We were told that Queen is the best white for Boston; Prosperity is the best seller, but the demand cannot be supplied. We were shown some Adiantum Croweanum and Adiantum cuneatum. Where the latter sells at 75c. to \$1. Croweanum brings from \$1 to \$1.50. Mr. Welch had some lily of the valley, with 18-inch stems—the best we ever saw. A great deal of goods from this establishment are shipped to Vermont and New Hampshire.

At Thos. F. Galvin's store we saw the yellow calla, and we believe that it will be very popular before long, as it is a beautiful yellow flower. B.

Cromwell, Conn.

News Items.

F. R. Pierson, of Tarrytown, N. Y.; Alexander and Robert Montgomery, of Natick, Mass., and Mr. Robert Simpson, of Clifton, N. J., visited the greenhouses of A. N. Pierson on Tuesday of this week.

Wallace R. Pierson is to be married on Tuesday, June 27, to Miss Olive Dailey, of Decatur, Ind. The marriage will take place in Westport, Conn. Owing to the recent death of Mr. Pierson's brother, the ceremony will be very quiet and informal.

The Killarney rose is developing an added attraction with the coming of hot weather. By comparison, it still has no equal. While the Bridesmaid, as usual, succumbs to the heat, and gets smaller daily, the "Irish Beauty" is just as bright, fresh and handsome as in winter.

G. R. Ludwig returned this week from a trip to Washington and New York in the interest of A. N. Pierson.

Cincinnati.

The Coming Social.

The program for the social gathering of florists to be held at Norwood Inn, Edwards Road, Hyde Park, as the guests of D. Rusconi, and George & Allan, on Thursday, June 29, includes a ball game, Growers vs. Commission and Store Men; bowling contests, quilt pitching, foot racing, etc.

Syracuse, N. Y.

Bedding trade is now in full swing. Tuberosa begonias are very fine, and meet with ready sale, both as house plants and for massing in beds.

Archie Murray, of the Waban Conservatories, has entered upon his duties as foreman of the Valley range of greenhouses of P. R. Quinlan & Co.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25

MANUFACTURED BY W. J. COWEE, Berlin, N. Y.

Samples free. For sale by dealers. Mention the Florists' Exchange when writing.

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Wholesale Florist 1235-37 FILBERT STREET Philadelphia Wholesale Flower Market Bldg., PHILADELPHIA, PA. Bell and Keystone 'Phones. We can use more CHOICE SWEET PEAS and EARLY ASTERS. Mention the Florists' Exchange when writing.

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We can and will fill your Cut Flower wants to advantage. Shipping orders our Specialty Write, telephone or telegraph. Long Distance Phone, 1129 Main. Headquarters for HARDY FERNS and WILD SMILAX Most Complete Line of FLORISTS' SUPPLIES in the West CATALOGUE FREE. E. F. WINTERSON CO., Established 1894 45-47-49 Wabash Ave., CHICAGO Mention the Florists' Exchange when writing.

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Wholesale Grower of Cut Flowers CHOICE AMERICAN BEAUTY ROSES We will take care of your orders at reasonable prices. Prompt attention. 51 Wabash Avenue, CHICAGO, ILL. Mention the Florists' Exchange when writing.

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Wholesale Prices of Cut Flowers—Per 100

Table with columns for Names and Varieties, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Milwaukee, Philadelphia, Pittsburgh, St. Louis. Rows include A. BEAUTY, Roses, ORCHIDS, Carnations, ADIANTUM, ASPARAGUS, CALLAS, GLADIOLUS, LILIES, LILY OF THE VALLEY, MIGNONETTE, PANSIES, PEONIES, SMILAX, STOCKS, SWEET PEAS.

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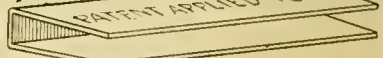
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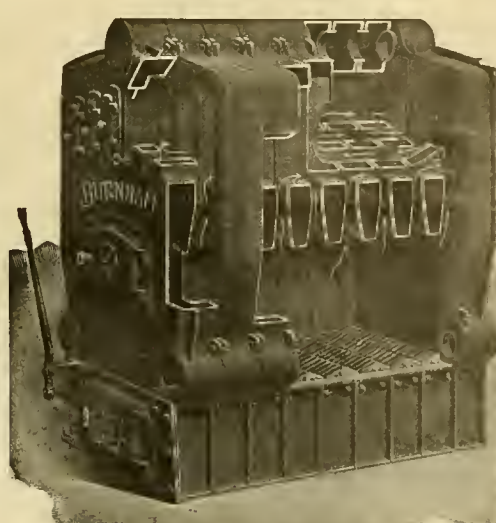
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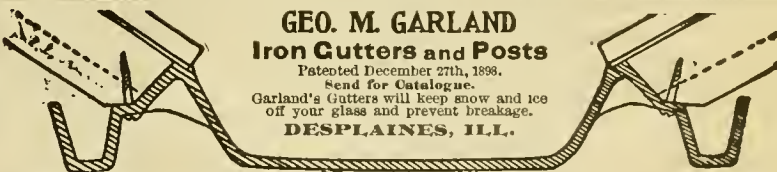


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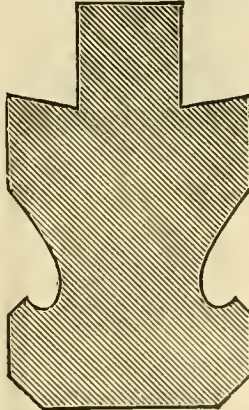
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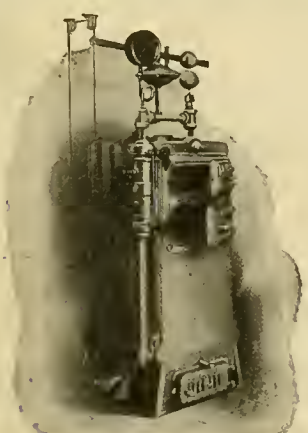
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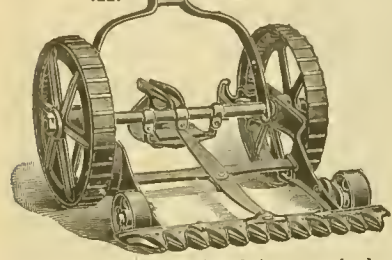
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Plate 101

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